



*Serviço Autônomo de Água e Esgotos*

Rua Bernardino de Campos, 799 CEP 13330 260 Centro  
0800 77 22 195 www.saae.sp.gov.br Indaiatuba SP

## **PLANO DE SEGURANÇA DE BARRAGEM BARRAGEM CAPIVARI-MIRIM**

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Projeto	Verificado	Aprovado		Data de Emissão
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BARRAGEM CAPIVARI-MIRIM**

**ESTUDOS DE “DAM BREAK”**

**Nº SA886.RE.CM010 - C  
Mar/2021**

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## **1 INTRODUÇÃO**

Este documento consubstancia os resultados dos serviços de engenharia relacionados com os Estudos de Ruptura e de Propagação da Onda de Ruptura da Barragem Capivari-Mirim, conforme Contrato nº 29/2020 firmado entre Serviço Autônomo de Água e Esgotos - SAAE e a HYDROS Engenharia Ltda. em 21/10/2020.

Os PSB e PAE da Barragem Capivari-Mirim foram desenvolvidos com vista ao atendimento da Política Nacional de Segurança de Barragens (PNSB - Lei Federal nº 12.334/2010), uma vez que existem riscos e danos potenciais associados à área urbana situada a jusante da barragem.

A elaboração do Plano de Segurança da Barragem Capivari-Mirim foi considerado necessário para dar atendimento às exigências legais e, principalmente, devido à existência de área de ocupação urbana permanente a jusante da barragem, com cota inferior ao nível d'água do reservatório da barragem, que caracteriza uma situação de risco à população, mesmo não apresentando o porte mínimo previsto na Lei Federal nº 12.334/2010 (Artigo 1º, parágrafo único).

Em atendimento ao Artigo 5º da Resolução ANA nº 236 de 20 de janeiro de 2017, o Plano de Segurança da Barragem Capivari-Mirim foi organizado em 6 (seis) volumes, conforme discriminados a seguir:

- |    |            |  |
|----|------------|--|
| 1) | Volume I   | – Informações Gerais   |
| 2) | Volume II  | – Documentação Técnica do Empreendimento                       |
| 3) | Volume III | – Planos e Procedimentos                                       |
| 4) | Volume IV  | – Registros e Controles  |
| 5) | Volume V   | – Revisão Periódica de Segurança da Barragem – Relatório Geral |
| 6) | Volume VI  | – Plano de Ação de Emergência                                  |

## **2        OBJETO E OBJETIVO**

O objeto dos serviços é a Barragem Capivari-Mirim. O objetivo é a realização de Estudos de Ruptura e de Propagação da Onda de Ruptura da Barragem, com vista à determinação da envoltória da “Mancha Máxima de Inundação”.

### **3 ANTECEDENTES**

O Serviço Autônomo de Água e Esgotos – SAAE, do município de Indaiatuba realiza a captação de água para tratamento e distribuição à população, usos industriais e outros serviços no rio Capivari-Mirim, que se situa na divisa dos municípios de Indaiatuba e Campinas. A captação de água é feita diretamente no rio, a fio-d'água, ou seja, sem qualquer armazenamento de água no local da captação.

Com o intuito de sanar essa deficiência o SAAE realizou estudos e projetos com vista à construção de uma barragem no rio Capivari-Mirim, cujo reservatório promove a regularização da vazão do rio, aumentando a oferta de água nos períodos de pouca chuva.

O local de implantação da barragem situa-se imediatamente a montante da captação de água da estação de bombeamento do SAAE, existente no rio Capivari-Mirim. O eixo da barragem de armazenamento de água, denominado Barragem Capivari-Mirim situa-se a cerca de 300 metros a montante do local da captação de água existente.

Para se construir a barragem foram elaborados: a) estudos e projetos relativos ao Projeto Básico; b) Adequação do Projeto Básico; c) Relatório Ambiental Preliminar – RAP; d) Estudos e Projetos relativos ao Projeto Executivo e f) Adequação do Projeto Executivo.

A Adequação do Projeto Básico da Barragem Capivari-Mirim foi elaborada pela empresa SN Engenharia e Consultoria Ltda., em dez/2005, levando em conta os estudos e projetos anteriormente realizados pelas empresas Topografia Informatizada e Agrimensura S/C Ltda., LENC Engenharia e Consultoria, Geólogo José Antonio Parizotto, GCP Engenharia Projetos e Consultoria S/C Ltda., Hidroman Engenharia S/C Ltda., Cicolin Engenharia e Projetos Ltda., RM Engenharia e Meio Ambiente e Scientia Consultoria Científica S/C Ltda., com o objetivo específico de desenvolver os estudos e projetos da Barragem Capivari-Mirim.

O Projeto Executivo da Barragem Capivari-Mirim foi elaborado pela empresa Hydros Engenharia Ltda. para o Consórcio Talude-Basfer, no decorrer do ano de 2008, que tinha sido contratado pelo SAAE para elaborar o projeto executivo e, também, executar as obras da barragem.

O Relatório Ambiental Preliminar – RAP da Barragem Capivari-Mirim foi elaborada pela empresa RM Engenharia & Meio Ambiente, em ago/2010.

Com o intuito de atender às exigência técnicas do DAEE, conforme Ata de Reunião de 02/08/11 (Autos 9800484) foi realizada a adequação gráfica do projeto executivo disponibilizado pelo SAAE, pela empresa Proesplan Engenharia Ltda., em jan/2012.

A execução das obras da Barragem Capivari-Mirim foi feita pela construtora ETC Empreendimentos e Tecnologia em Construções Ltda., no período de 2013 a 2015.

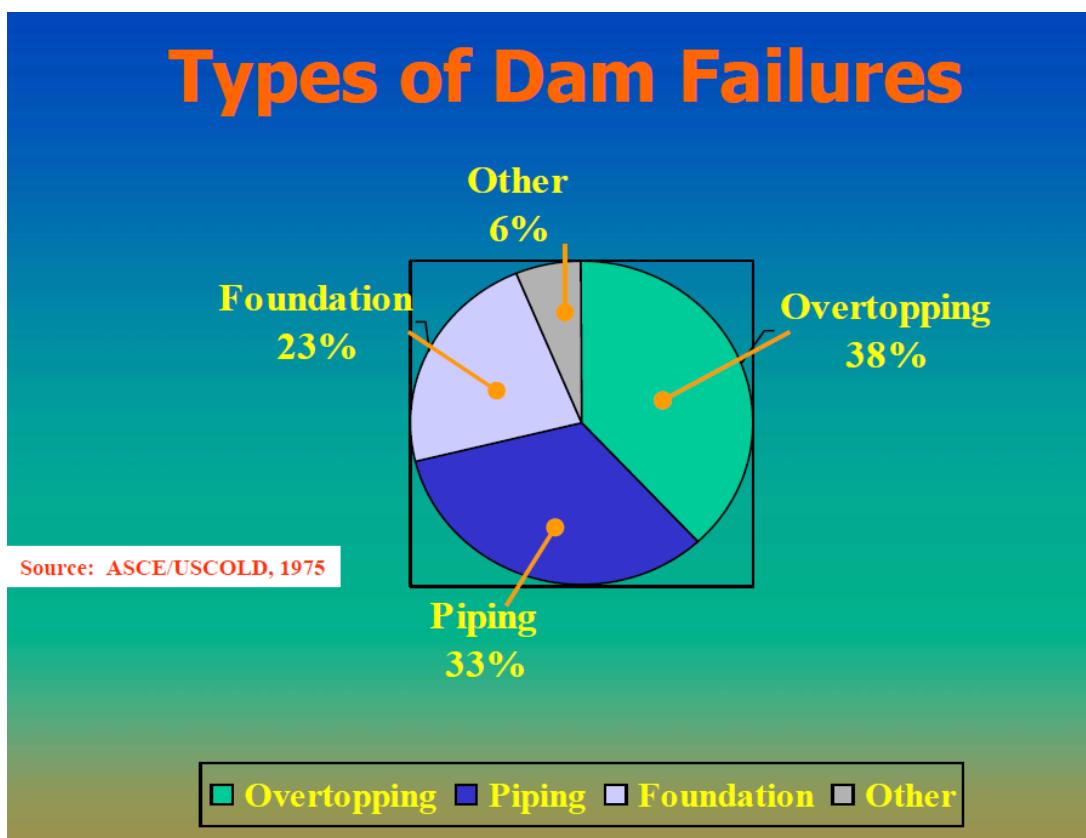
## 4 METODOLOGIA DOS ESTUDOS

### 4.1 CONSIDERAÇÕES GERAIS

Para se realizar as simulações de ruptura da barragem contemplaram a ruptura propriamente dita da barragem e a propagação da onda de cheia no trecho de jusante da barragem, decorrente da ruptura barragem.

O mecanismo de ruptura depende basicamente do tipo da barragem, ou seja, de estruturas rígidas e as deformáveis. As barragens rígidas são aquelas de concreto e alvenaria, por exemplo e as deformáveis, as de terra, enrocamento, gabiões, etc.

As causas de rompimento de barragens podem ser por ruptura de fundação, galgamento e escorregamento do talude. Estatísticas de rupturas de barragens, levantadas pela ASCE/USCOLD, indicam que as causas de rompimento de barragens são, aproximadamente, 38 % por “overtopping” ou galgamento, 33 % por “piping” ou erosão interna das barragens de terra, 23 % por problemas na fundação e 6 % devido a outras causas, ou seja, 56 % são por problemas geológicos/geotécnicos.



**Figura 4.1-1- Causas de Ruptura de Barragens.**

Fonte: MDE.

#### 4.2 RUPTURA DE BARRAGENS COM ESTRUTURAS DEFORMÁVEIS

A estrutura da Barragem Capivari-Mirim é de solo, ou seja, é do tipo deformável. As principais causas de rompimento das barragens com estruturas deformáveis (terra) são por transbordamento e erosão interna e/ou “piping”. As barragens podem romper também por outras causas, entre outras: erosão regressiva causada por correntes de recirculação, deficiência na dissipação de energia, etc.

Os transbordamentos são causados por: falta de capacidade das estruturas vertentes (falhas ou alterações nas condições hidrológicas e/ou subdimensionamentos hidráulicos), falha na operação, falha na manutenção (entupimento, por exemplo), falha na construção, etc.

Experiências têm mostrado que o formato final da brecha, para maciços de terra ou enrocamento tem formato aproximadamente trapezoidal, seja o rompimento provocado por “overtopping” ou por “piping”.

O “piping” é um fenômeno que ocorre devido ao arraste de partículas (grãos de areia ou de silte, por exemplo) pelo escoamento para fora do maciço, devido às forças hidrodinâmicas exercidas pelo escoamento sobre essas partículas.

De uma forma geral, as forças que agem sobre uma partícula são: gravidade, atrito, coesão e os esforços hidrodinâmicos. Uma partícula é arrastada quando o esforço hidrodinâmico é maior que as forças resistentes, representadas pelo atrito e coesão.

O esforço hidrodinâmico é originado pelo fluxo que percola pelo maciço e emerge na face de jusante. Numa barragem de terra, esse fluxo é originado pelo desnível existente entre o reservatório a jusante e pode aflorar em algum ponto.

As erosões por “piping” ocorrem não somente em corpos de barragens, mas também em encostas e em valas. As voçorocas são casos típicos de erosões provocadas por “piping”. O mecanismo apresentado explica os motivos pelas quais as erosões por “piping” ocorrem principalmente em maciços compostos por materiais granulares com baixa coesão.

São locais propícios para a ocorrência de “piping”: junção das estruturas de concreto com a barragem de terra, interface entre um tubo de descarga posicionada dentro do corpo de uma barragem de terra, etc. Estes pontos são susceptíveis de ocorrência de erosão interna devido à dificuldade de compactação adequada, além da dificuldade na fiscalização da sua construção.

A estimativa da formação da brecha, foi feita com a utilização do método de Froelich (2016), que foi baseado em 111 casos, dadas pelas equações:

$$B_{avg} = 0,27 \cdot K_M \cdot V_w^{1/3}$$

$$T_f = \frac{63,2}{3600} \left( \frac{V_w}{g \cdot H_b^2} \right)^{0,5}$$

Sendo:

- $B_{avg}$  = largura da brecha (m);
- $K_M$  = parâmetro do tipo de ruptura: overtopping = 1,3; piping = 1,0;
- $V_w$  = volume d'água ( $m^3$ );
- $T_f$  = tempo de formação da brecha (h);
- $H_b$  = altura da barragem (m).

Foram utilizados os valores recomendados pela ANA, no seu “Manual do Empreendedor sobre Segurança de Barragens – Volume IV – Guia de Orientação e Formulários dos Planos de Ação de Emergência \_ PAE, de abril de 2016, apresentados no quadro a seguir.

**Quadro 5 – Valores característicos da brecha de ruptura (adaptado de USBR, 1989)**

<b>Tipo de barragem</b>	<b>Largura média da brecha (<math>\bar{B}_{bre}</math>)</b>	<b>Componente horizontal da inclinação dos taludes da brecha (IV:ZH)</b>	<b>Tempo de ruptura (horas)</b>
Concreto em arco	Todo o desenvolvimento da barragem ou $\bar{B}_{bre} \geq 0,8 B_{barr}$	$0 \leq Z \leq$ Inclinação do vale	$t_{rot} \leq 0,1$
Concreto gravidade	Um múltiplo de vários blocos, sendo usualmente, $\bar{B}_{bre} \leq 0,5 B_{barr}$	$Z=0$	$0,1 \leq t_{rot} \leq 0,3$
Terra/Enrocamento	$H_{barr} < \bar{B}_{bre} < 5 H_{barr}$	$1/4 \leq Z \leq 1$	$0,5 \leq t_{rot} \leq 3$
Estéreis de minas	$\bar{B}_{bre} \geq 0,8 H_{barr}$	$1 \leq Z \leq 2$	$0,1 \leq t_{rot} \leq 0,3$

As vazões de pico foram estimadas, para rompimento por “overtopping”, pela equação desenvolvida por Wetmore e Fread, apresentada a seguir:

$$Q_p = 3.1 B_{avg} H_w^{1.5} \left( \frac{\gamma}{\gamma + T_f \sqrt{H_w}} \right)^3$$

Where:

$Q_p$  = Dam break peak discharge in cfs

$B_{avg}$  = Average breach width in feet

$H_w$  = Maximum depth of water stored behind the breach in feet

$T_f$  = Breach development time in hours

$\gamma$  = Instantaneous flow reduction factor =  $23.4 A_s / B_{avg}$  (equivalent to ‘C’ in Wetmore and Fread (1984))

$A_s$  = Surface area of the reservoir in acres corresponding to  $H_w$

#### 4.3 ESTUDO DE PROPAGAÇÃO DA ONDA DE RUPTURA DA BARRAGEM

O rompimento de uma barragem provoca a formação de uma onda de inundação para jusante, que é função de características da formação da brecha. A onda de inundação deste tipo

apresenta formato não linear e a sua propagação não pode ser modelada por meio de procedimentos simplificados, em regime permanente e uniforme, tal como é o caso da utilização da equação de Manning.

Para se fazer a simulação da propagação da onda de ruptura de barragem foi necessário realizar uma modelagem matemática, utilizando-se modelos hidrodinâmicos de escoamento de água, pois a onda de cheia que ocorre com rompimento de uma barragem não é em regime permanente e nem é uniforme, e, também, a distribuição das pressões do escoamento não se dá de forma hidrostática.

Para o caso da Barragem Capivari-Mirim foi utilizada a modelagem hidrodinâmica unidimensional do “software” HEC-RAS 5.0.7 devido às as características geométricas dos trechos de propagação das ondas de ruptura da barragem e às grandes extensões dos trechos modelados.

## **4.4 CONDIÇÕES DE CONTORNO DAS SIMULAÇÕES MATEMÁTICAS**

### **4.4.1 Condições de Contorno Geométrico do Terreno**

As condições de contorno geométrico da modelagem matemática foram estabelecidas por meio da definição do modelo digital do terreno (MDT).

Este modelo foi obtido a partir das informações do Satélite Alos, com resolução de 12,5 m e, nas várzeas, que são cobertas por matas ciliares, a definição do terreno foi auxiliada com as cartas do IGC – Instituto Geográfico e Cartográfico do Estado de São Paulo, na escala 1:10.000, com equidistância entre as curvas, de 5 m. Posteriormente, foi utilizado do software QGIS, que elabora o MDT a partir das curvas de nível, por meio de triangulação. O MDT obtido foi exportado para o “software” HEC-RAS.

Por fim o MDT do trecho de interesse foi obtido com a utilização do “software” QGIS, criando-se um arquivo do tipo Geo-Tiff. O arquivo do modelo digital de elevação foi processado com o auxílio do módulo RAS Mapper do HEC-RAS, obtendo-se os traçados dos cursos d’água, das seções e os limites da modelagem matemática.

### **4.4.2 Condições de Contorno Hidráulico**

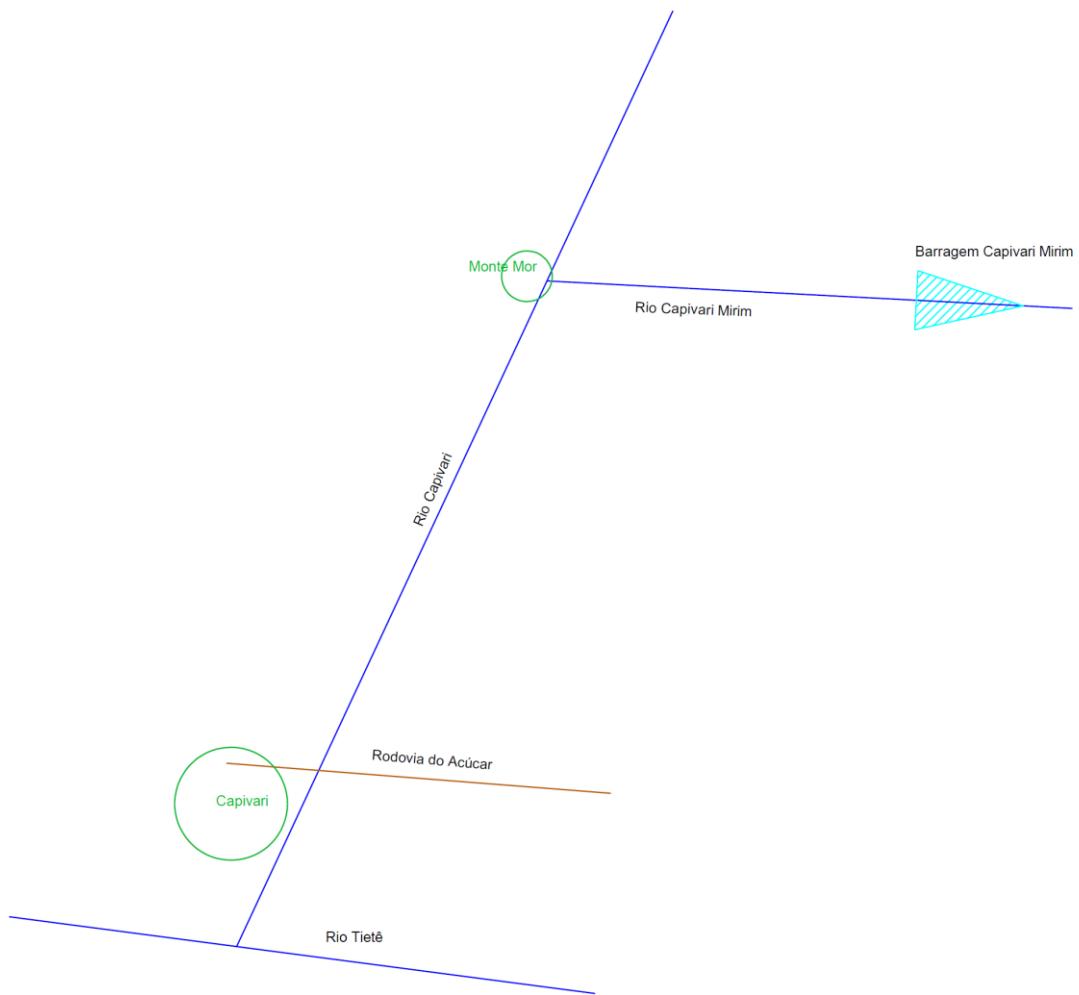
Foi realizada a simulação de rompimento para a condição mais desfavorável, que é por galgamento (overtopping), para a condição da cheia máxima com período de retorno de 10.000 anos, sendo o pico da cheia de 385 m<sup>3</sup>/s. Por motivo de convergência do modelo matemático, foi adotada a vazão mínima de 40 m<sup>3</sup>/s no Rio Capivari Mirim, tanto nos instantes iniciais, como nos finais do hidrograma da cheia máxima. Para o Rio Capivari, foi adotada uma vazão constante de 50 m<sup>3</sup>/s.

O cenário de rompimento por “overtopping” durante a passagem da cheia decamilenar corresponde à ocorrência dessa cheia, aliada a uma obstrução no vertedouro por uma causa

qualquer, como o enroscô de uma árvore, por exemplo, que poderia diminuir a sua capacidade de vertimento.

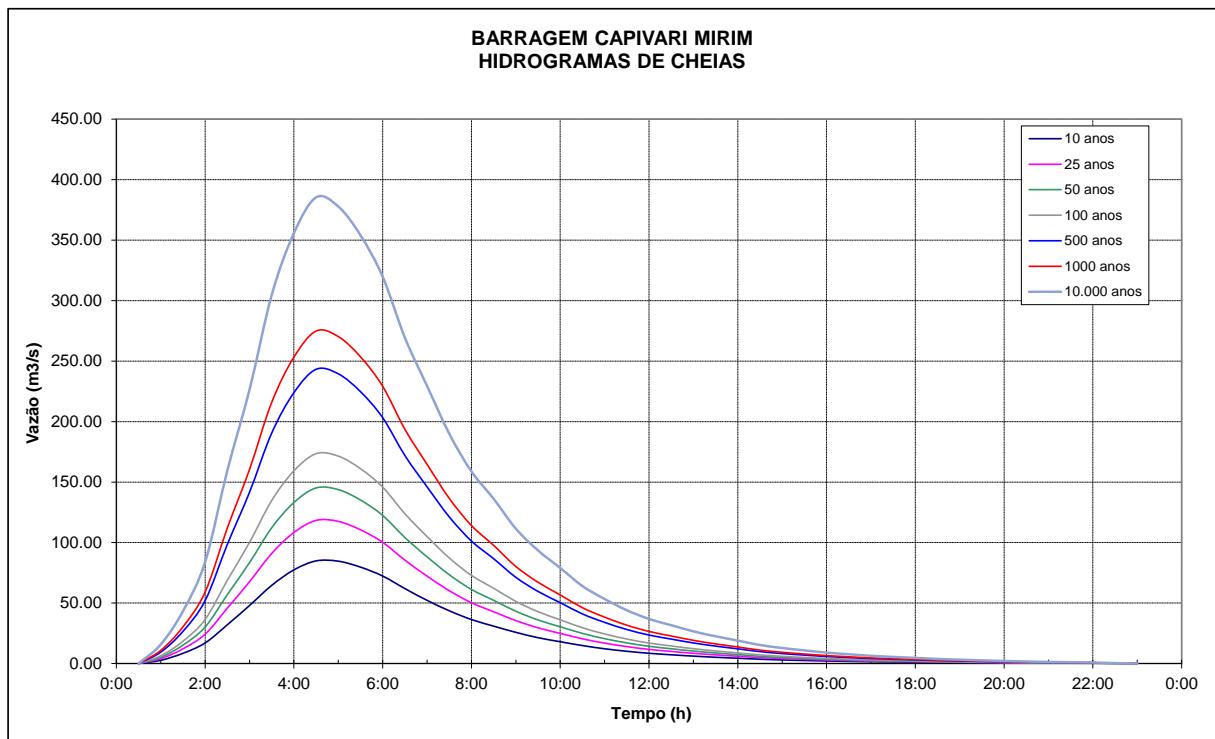
Foi realizada também simulação com a passagem da cheia decamilenar, sem rompimento da barragem, também com as mesmas vazões mínimas no hidrograma e 50 m<sup>3</sup>/s no Rio Capivari.

#### **4.4.3 Topologia das Simulações**



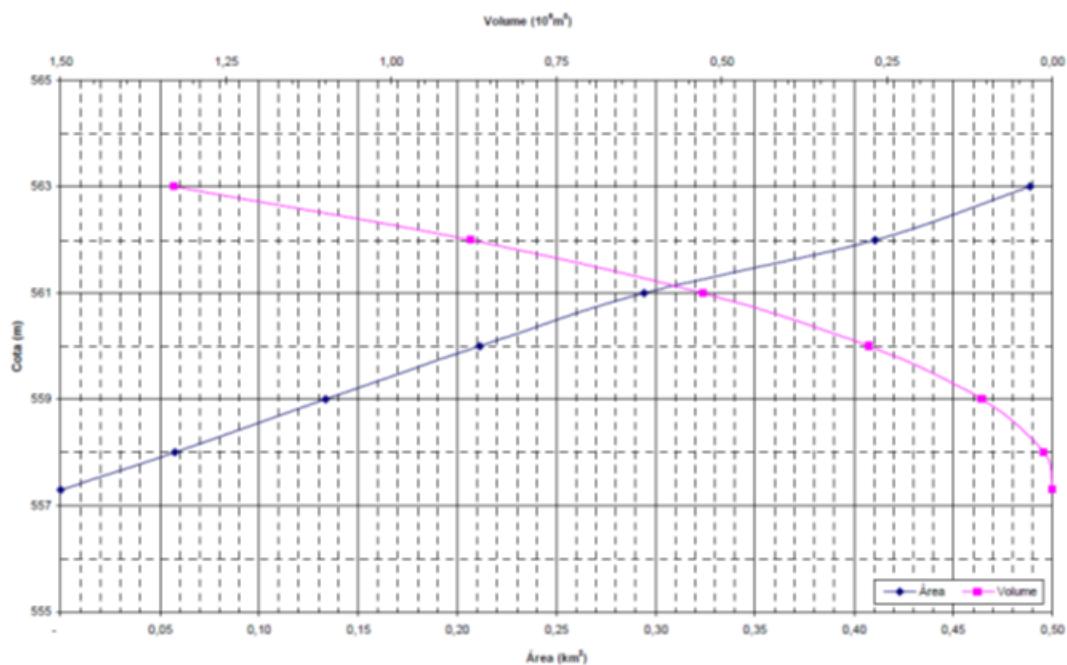
**Figura 4.4-1 – Topologia das simulações.**

#### 4.4.4 Hidrogramas Afluentes



**Figura 4.4-2 - Hidrogramas afluentes ao reservatório.**

#### 4.4.5 Curvas Cota x Área x Volume



**Figura 4.4-3- Curvas Cota x Área x Volume do reservatório.**

#### **4.4.6 Dimensões da brecha**

Para o presente caso, ruptura por “overtopping”:

- Volume da barragem: 1.500.000 m<sup>3</sup>;
- Altura da barragem: 6,80 m;
- Largura da brecha: 38,60 m;
- Tempo de formação: 0,95 h.

## **5 SIMULAÇÃO DA RUPTURA DA BARRAGEM PROPAGAÇÃO DA ONDA DE CHEIA PARA JUSANTE**

### **5.1 SIMULAÇÃO RUPTURA E DA PROPAGAÇÃO DA ONDA DE RUPTURA DA BARRAGEM**

A simulação da onda de ruptura da barragem foi feita com a utilização do “software” HEC-RAS, que simula a propagação dos escoamentos provenientes da ruptura da barragem e elabora as manchas de inundações com base no MDT, este elaborado com o auxílio do software QGIS.

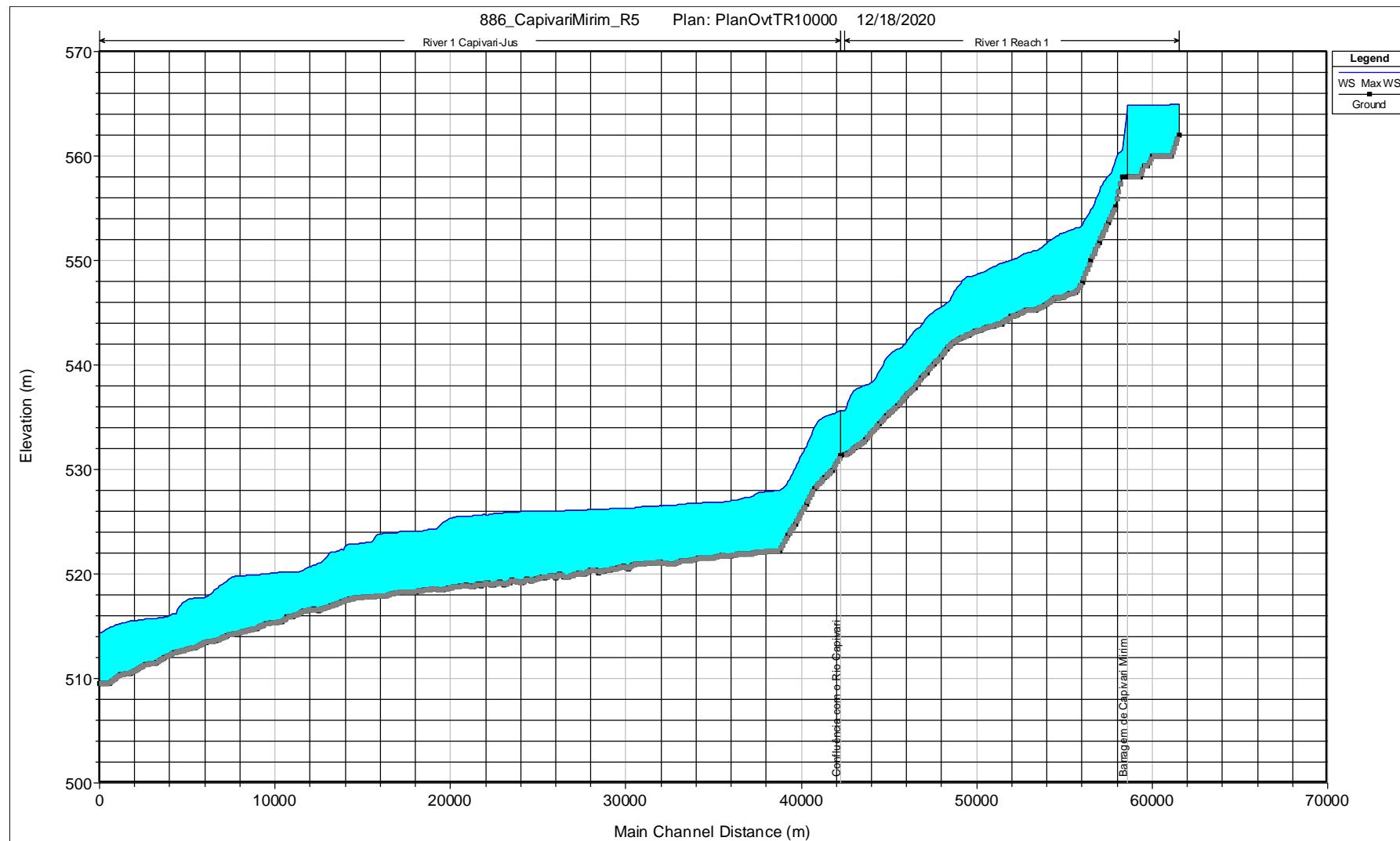
Foi feita a simulação do pior caso de rompimento da barragem, ou seja, a ruptura hipotética, por transbordamento, durante a ocorrência de uma cheia milenar na bacia hidrográfica.

A simulação da ruptura e de propagação das ondas das cheias foi feita com a utilização do módulo de simulação em regime não permanente do HEC-RAS, sendo estabelecidos o intervalo de tempo de discretização, intervalo de tempo de gravação dos resultados, data ou horário de início de simulação.

Após o término das simulações os resultados foram lidos pelo módulo RAS Mapper, que delimita as manchas de inundaçāo, extrapolando para o terreno os dados dos níveis-d’água.

São apresentados a seguir, os resultados da simulação de ruptura hipotética por “overtopping”, causada pela vazão de cheia com recorrência de 10.000 anos.

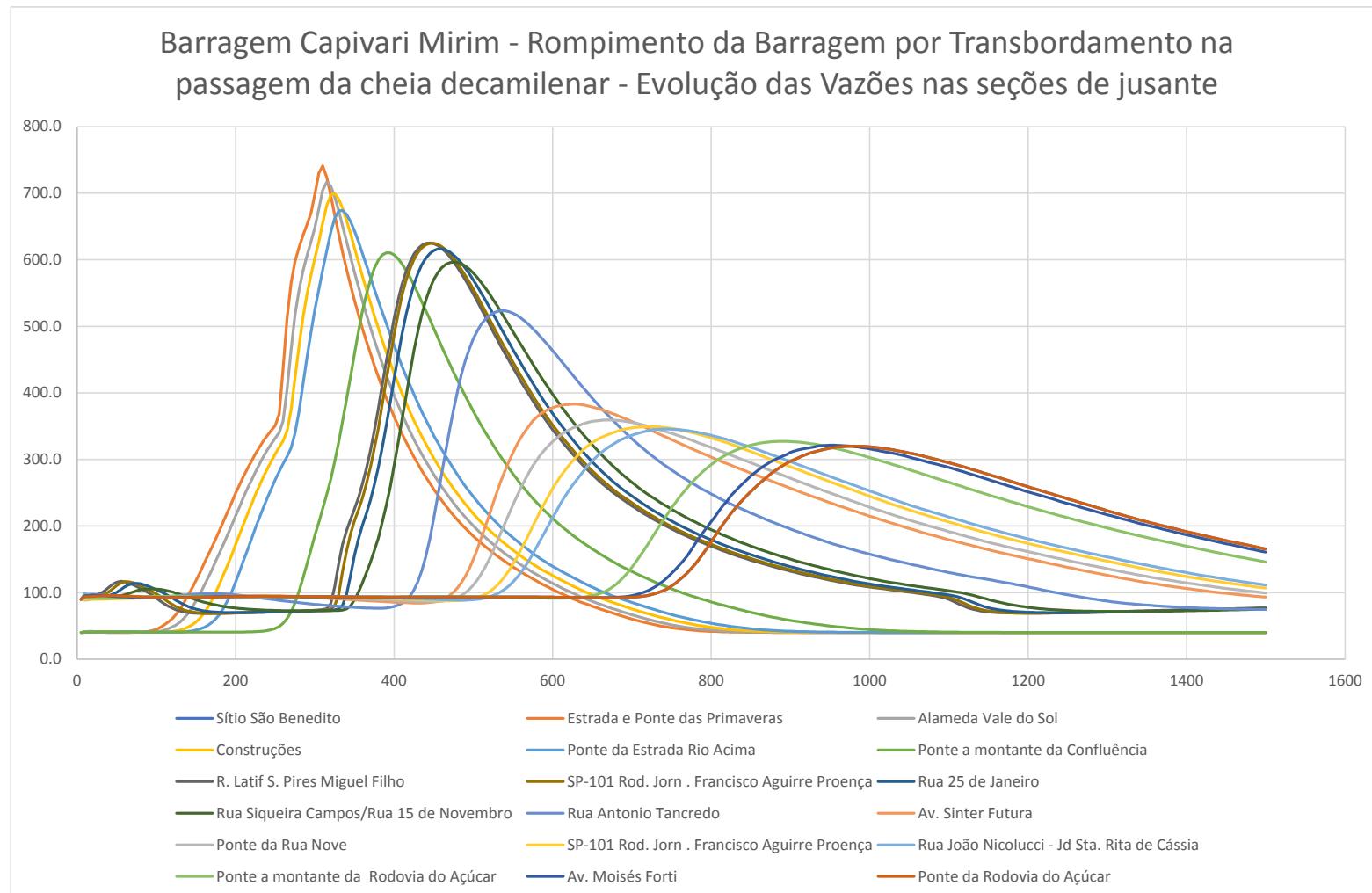
Apresentam-se nas Figuras 5.1-1 e 5.1-2, a seguir, o perfil da linha-d’água máxima e a planta da mancha de inundaçāo máxima, decorrente da onda de ruptura da barragem, que se propaga ao longo do curso-d’água a jusante da barragem e ao longo do Rio Capivari-Mirim, afetando as áreas urbanas do município de Indaiatuba, Monte Mor e Capivari.



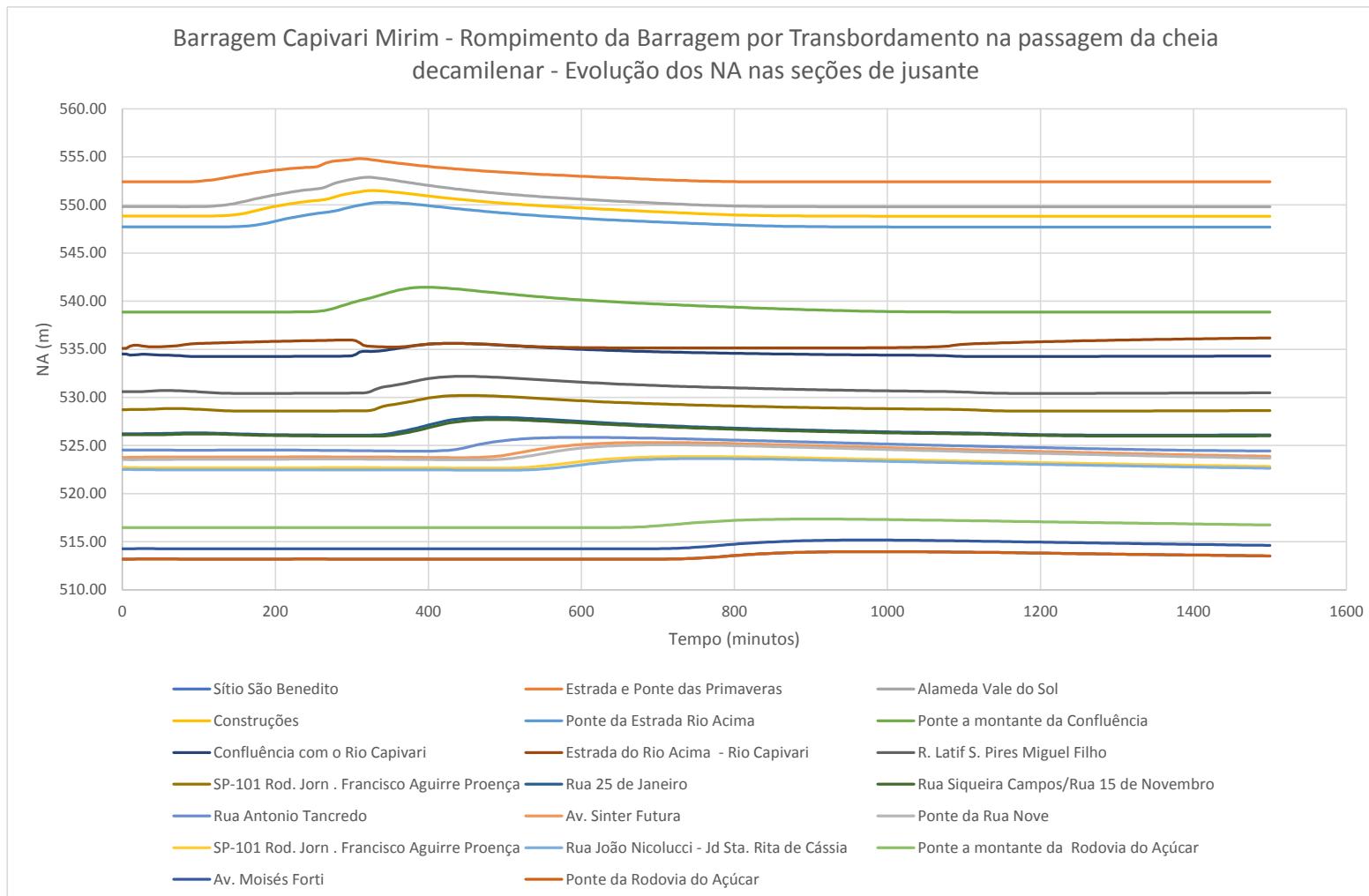
**Figura 5.1-1 – Onda de Ruptura por Galgamento (overtopping) das Barragens - Perfil da Linha-d'Água Máxima.**



**Figura 5.1-2 – Onda de Ruptura por Galgamento (overtopping) das Barragens – Planta da Mancha de Inundação Máxima.**



**Figura 5.1-3 – Onda de Ruptura por Galgamento (overtopping) das Barragens – Evolução das vazões nas seções de jusante.**



**Figura 5.1-4 – Onda de Ruptura por Galgamento (overtopping) das Barragens – Evolução dos níveis-d'água nas seções de jusante.**

Apresenta-se, a seguir, na Tabela 5.1-1, o tempo de chegada da onda de ruptura, o tempo de ocorrência de NAmáximo e o NAmáximo nos pontos notáveis dos cursos-d'água situados a jusante da barragem. Os pontos notáveis estão situados a jusante da barragem, ao longo dos cursos-d'água, dentro dos municípios situados à jusante das barragens.

**Tabela 5.1-1 – Tempo de Chegada da Onda de Ruptura, tempo de ocorrência do NA máximo e o NA Máximo Atingido, nos Pontos Notáveis dos Cursos-d'Água a Jusante da Barragem Capivari-Mirim**

<b>Local</b>	<b>Dist. à Foz (km)</b>	<b>Dist. à Barr. (km)</b>	<b>Tempo de Cheg. (min)</b>	<b>Tempo Máx (min)</b>	<b>NA (m)</b>
Sítio São Benedito	56,28	1,77	9	65	554,72
Estrada e Ponte das Primaveras	55,08	2,97	15	76	552,71
Alameda Vale do Sol	53,65	4,41	21	84	551,35
Construções	52,13	5,93	27	98	550,11
Ponte da Estrada Rio Acima	45,24	12,81	65	153	541,26
Ponte a montante da Confluência	42,25	15,80	94	180	535,49
Confluência com o Rio Capivari	42,25	15,80	94	180	535,49
Estrada do Rio Acima - Rio Capivari	41,78	16,28	110	185	536,91
R. Latif S. Pires Miguel Filho	40,29	17,77	110	196	532,06
SP-101 Rod. Jorn . Francisco Aguirre Proença	39,68	18,38	121	202	530,08
Rua 25 de Janeiro	38,75	19,30	134	228	527,81
Rua Siqueira Campos/Rua 15 de Novembro	37,56	20,49	140	238	527,59
Rua Antonio Tancredo	30,37	27,68	173	310	526,01
Av. Sinter Futura	23,07	34,99	196	360	525,54
Ponte da Rua Nove	21,56	36,50	208	405	525,31
SP-101 Rod. Jorn . Francisco Aguirre Proença	19,02	39,04	230	415	524,03
Rua João Nicolucci – Jd. Sta. Rita de Cássia	17,22	40,84	253	435	523,81
Ponte a montante da Rodovia do Açúcar	6,07	51,98	321	503	517,53
Av. Moisés Forti	1,73	56,32	330	591	515,32
Ponte da Rodovia do Açúcar	0,00	58,05	378	620	514,13

A Tabela 5.1-2 apresenta as velocidades máximas, vazões máximas, profundidades máximas e riscos hidrodinâmicos nos pontos notáveis dos cursos-d'água a jusante da barragem. O risco hidrodinâmico é determinado pelo produto da velocidade x profundidade da lâmina-d'água e expressa o dano potencial de uma inundação (o efeito de uma inundação de, por exemplo, 1 de lâmina de água com água parada é completamente diferente dessa mesma inundação, mas com velocidade de 3 m/s pois, com essa velocidade pode derrubar uma edificação e arrastar as pessoas atingidas pelo escoamento).

**Tabela 5.1-2 – Velocidades Máximas, Vazões Máximas, Profundidades e Riscos Hidrodinâmicos nos Pontos Notáveis dos Cursos-d’Água a Jusante da Barragem.**

Local	Dist. à Foz (km)	Vmáx (m/s)	Qmáx (m <sup>3</sup> /s)	Profund (m)	Risco Hid (m <sup>2</sup> /s)
Sítio São Benedito	56,28	2,20	684,00	4,7	10,4
Estrada e Ponte das Primaveras	55,08	1,53	655,06	5,9	9,0
Alameda Vale do Sol	53,65	2,11	635,86	5,7	12,0
Construções	52,13	1,86	607,22	5,3	9,8
Ponte da Estrada Rio Acima	45,24	0,71	542,02	5,2	3,7
Ponte a montante da Confluência	42,25	1,01	527,45	4,1	4,1
Confluência com o Rio Capivari	42,25	0,58	566,41	4,2	2,4
Estrada do Rio Acima - Rio Capivari	41,78	0,57	133,11	1,9	1,1
R. Latif S. Pires Miguel Filho	40,29	1,06	559,77	5,4	5,7
SP-101 Rod. Jorn . Francisco Aguirre Proença	39,68	1,38	559,43	5,3	7,3
Rua 25 de Janeiro	38,75	0,54	553,11	5,6	3,1
Rua Siqueira Campos/Rua 15 de Novembro	37,56	0,55	538,03	5,5	3,0
Rua Antonio Tancredo	30,37	0,69	489,81	5,1	3,5
Av. Sinter Futura	23,07	1,17	431,59	6,6	7,7
Ponte da Rua Nove	21,56	0,93	416,71	6,3	5,8
SP-101 Rod. Jorn . Francisco Aguirre Proença	19,02	0,70	407,66	5,5	3,8
Rua João Nicolucci – Jd. Sta. Rita de Cássia	17,22	0,21	405,13	5,5	1,2
Ponte a montante da Rodovia do Açúcar	6,07	1,70	394,45	4,1	6,9
Av. Moisés Forti	1,73	1,38	391,30	4,9	6,7
Ponte da Rodovia do Açúcar	0,00	1,43	390,00	4,6	6,6

Na Tabela 5.1-3, apresenta abaixo, são descritas as consequências da propagação da onda de ruptura hipotética da barragem, indicando que o dano causado pela onda de ruptura hipotética da barragem é bastante alto, com potencial para arrastar adultos e causar danos às edificações existentes.

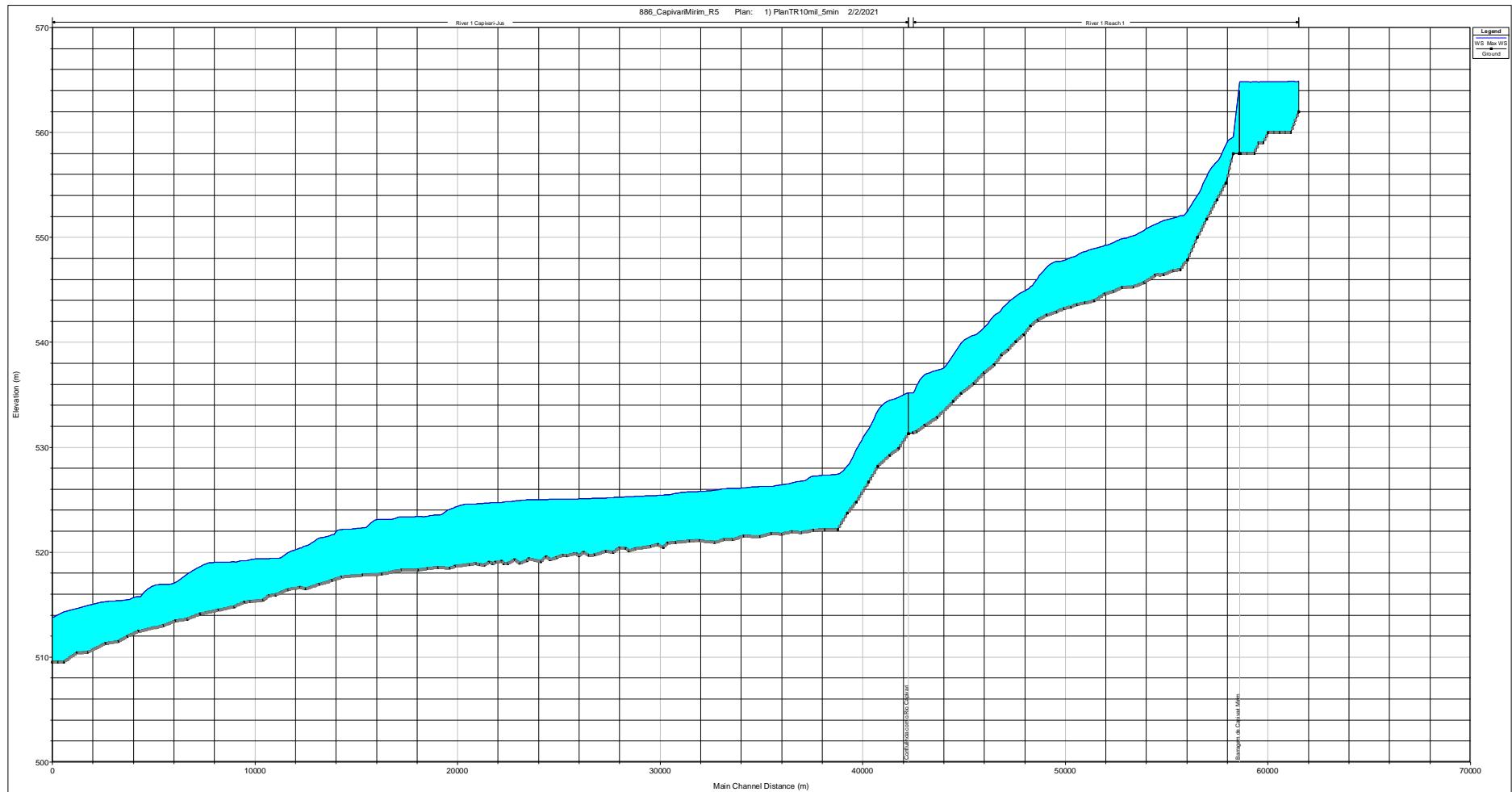
**Tabela 5.1-3 – Consequências de Risco Hidrodinâmico (Synaven et al, 2000) (\*)**

Risco Hidrodinâmico (Parâmetro H x V)	Consequência
< 0,5	Crianças e deficientes são arrastados
0,5 – 1,0	Adultos são arrastados
1 – 3	Danos de submersão em edifícios e casas fracas
3 – 7	Danos estruturais em edifícios e possíveis colapsos
> 7	Colapso de certos edifícios

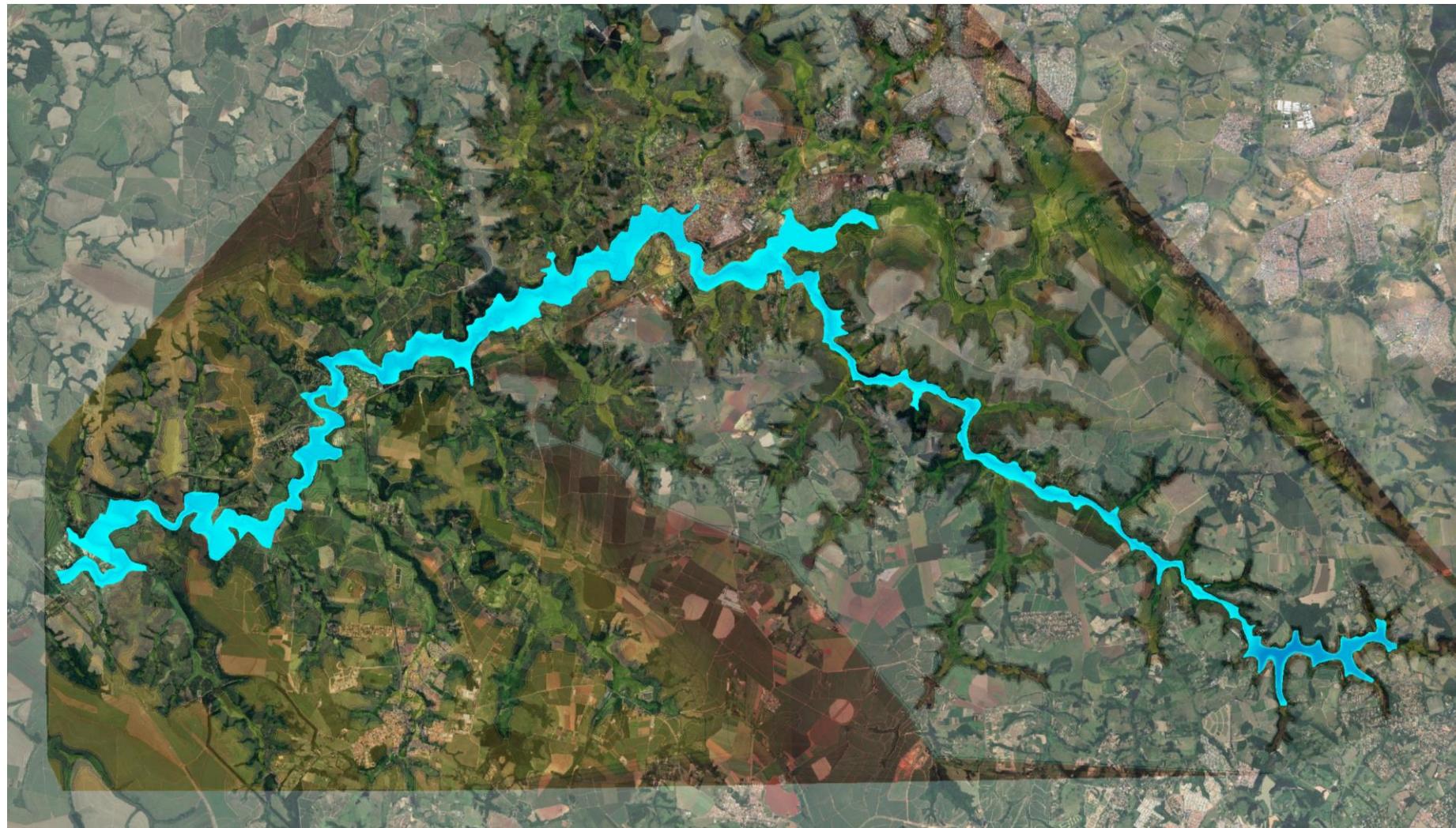
(\*) Conforme Synaven, K., The pilot Project Kyrkojarvi dam and reservoir, Seinjanoki, Finland, In: International Seminal and Workshop Risk, Assessment, Dam-break Flood Analysis and Emergency Action Planning. Seijanoki, Finnish Environment Institute, 2000.

## **5.2 SIMULAÇÃO DA PROPAGAÇÃO DA ONDA DE CHEIA DECAMILENAR**

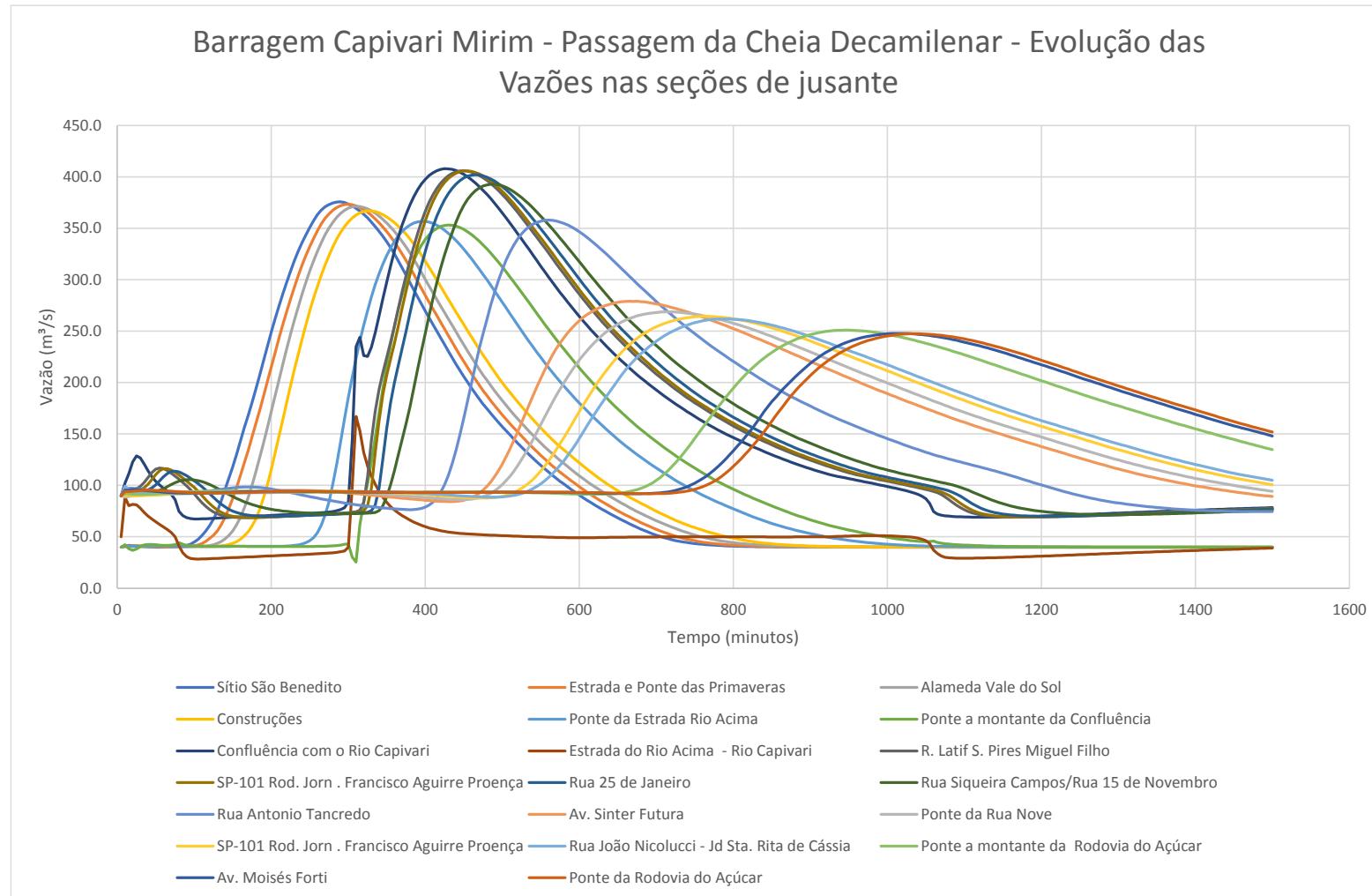
São apresentadas a seguir, os resultados da propagação da cheia decamilenar.



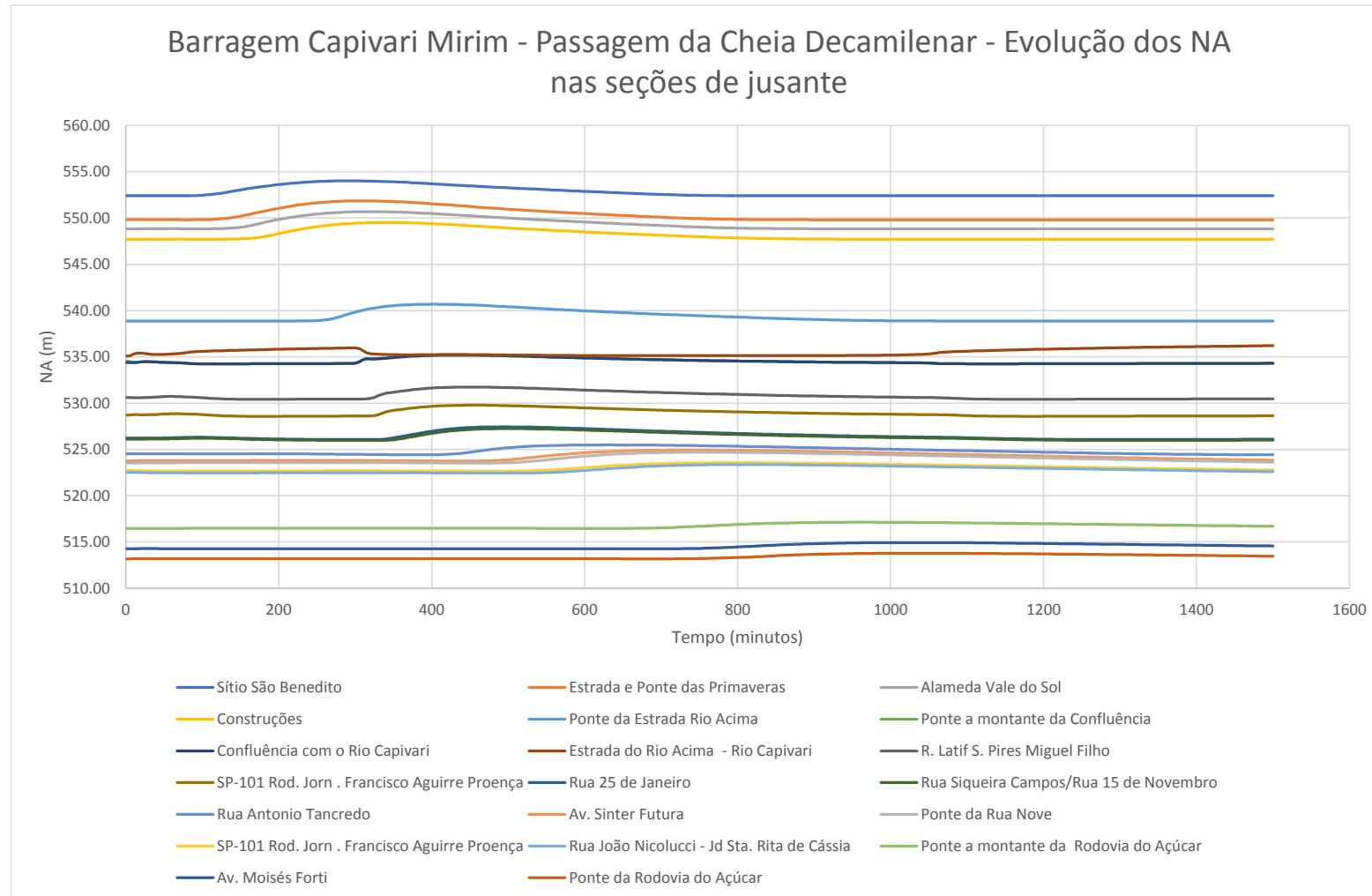
**Figura 5.2-1 – Onda de Passagem da Cheia Decamilenar - Perfil da Linha-d'Água Máxima.**



**Figura 5.2-2 – Onda de Cheia Decamilenar – Planta da Mancha de Inundação Máxima.**



**Figura 5.2-3 – Onda de Cheia Decamilenar – Evolução das Vazões nas Seções de Jusante.**



**Figura 5.2-4 – Onda da Cheia Decamilenar – Evolução dos Níveis-d'Água nas Seções de Jusante.**

A Figura 5.2-3 apresenta as evoluções das vazões nas seções de jusante e observa-se que, a partir da seção da confluência com o Rio Capivari, há um acréscimo de vazões, em relação às seções anteriores de montante. Tal fato se deve à contribuição do Rio Capivari.

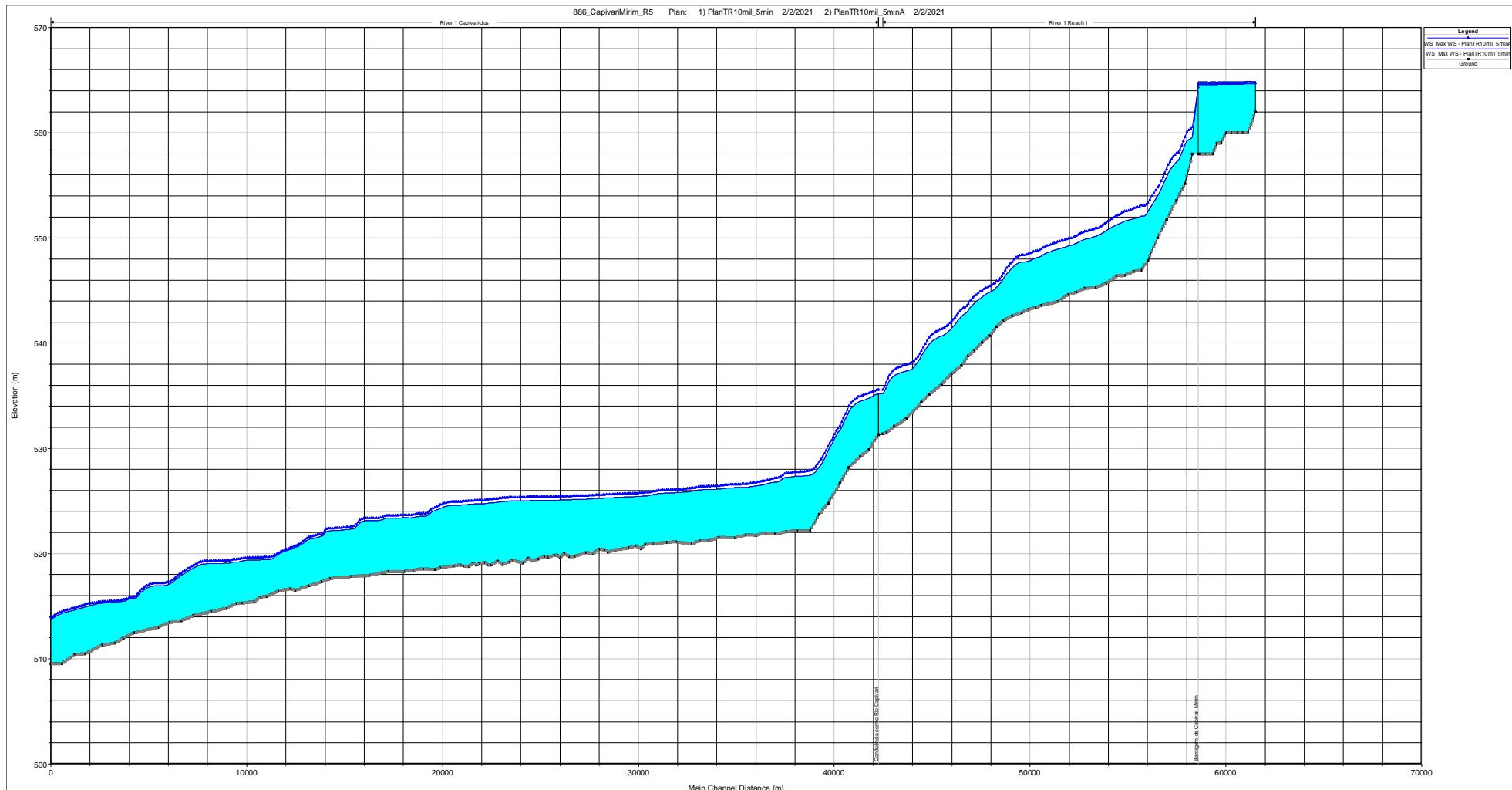
A Figura 5.2-5 apresenta a sobreposição das linhas-d'água ao longo dos cursos-d'água, para a cheia decamilenar e para o rompimento da barragem causada pela cheia decamilenar.

A Tabela 5.2-1 apresenta os níveis-d'água máximos nas seções para as duas condições simuladas, isto é, para a passagem da vazão decamilenar sem rompimento, com rompimento e as diferenças.

Observa-se que as diferenças são relativamente pequenas e esta ocorre pelo fato de o volume do reservatório ser relativamente pequeno.

**Tabela 5.2-1 – Níveis-d'água máximos nas seções para a passagem da cheia decamilenar, ruptura da barragem por overtopping e as diferenças de níveis entre essas duas ondas.**

Local	NA Deca (m)	NA overtop (m)	Dif (m)
Sítio São Benedito	554.02	554.72	0.70
Estrada e Ponte das Primaveras	551.85	552.71	0.86
Alameda Vale do Sol	550.68	551.35	0.67
Construções	549.51	550.11	0.60
Ponte da Estrada Rio Acima	540.69	541.26	0.57
Ponte a montante da Confluência	535.19	535.49	0.30
Confluência com o Rio Capivari	535.19	535.49	0.30
Estrada do Rio Acima - Rio Capivari	536.24	536.91	0.67
R. Latif S. Pires Miguel Filho	531.73	532.06	0.33
SP-101 Rod. Jorn . Francisco Aguirre Proença	529.77	530.08	0.31
Rua 25 de Janeiro	527.44	527.81	0.37
Rua Siqueira Campos/Rua 15 de Novembro	527.25	527.59	0.34
Rua Antonio Tancredo	525.49	526.01	0.52
Av. Sinter Futura	524.93	525.54	0.61
Ponte da Rua Nove	524.69	525.31	0.62
SP-101 Rod. Jorn . Francisco Aguirre Proença	523.56	524.03	0.47
Rua João Nicolucci - Jd Sta. Rita de Cássia	523.36	523.81	0.45
Ponte a montante da Rodovia do Açúcar	517.13	517.53	0.40
Av. Moisés Forti	514.93	515.32	0.39
Ponte da Rodovia do Açúcar	513.78	514.13	0.35



**Figura 5.2-5 – Linhas-d'Água das Ondas da Ruptura de Barragem e da Cheia Decamilenar.**

## **6 CONCLUSÕES**

Foram realizadas simulações para duas condições hidrológico-hidráulicas, ou seja, ruptura hipotética da barragem concomitantemente à ocorrência da cheia natural com vazão decamilenar e, simplesmente, a ocorrência da cheia decamilenar, até a Rodovia do Açúcar, situada a 58 km a jusante da barragem, próxima à cidade de Capivari.

Os resultados indicaram que as diferenças entre as duas manchas de inundação são pequenas, fato já esperado, devido ao tamanho relativamente pequeno do reservatório, sendo que as diferenças máximas foram de menos de 1 m entre os níveis d'água nas duas condições analisadas, com os níveis maiores ocorrendo para o caso de ruptura hipotética da barragem, associada à ocorrência da cheia decamilenar.

O tempo de chegada da onda na cidade de Monte Mor, situada cerca de 16 km a jusante da barragem, é de aproximadamente 1:30 h, ocorrendo o pico da cheia em 3 h e, na Ponte da Rodovia do Açúcar, situa da 58 km a jusante da barragem, de aproximadamente 6 h, com o pico da cheia ocorrendo após 10 h de rompimento da barragem.

As diferenças de nível nos dois casos na Rodovia do Açúcar, de 0,35 m indicam que a extensão no trecho simulado é adequada e, que a hipótese de ruptura da barragem não provoca uma inundação muito maior do que aquela causada pela ocorrência de uma cheia natural decamilenar.

**7       ANEXOS**

**7.1     ROMPIMENTO POR “OVERTOPPING” – EVOLUÇÕES DE NA X VAZÕES NAS SEÇÕES A JUSANTE**

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos - Rua 15 de Novembro	Rua Antônio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
0	513.18	552.42	549.82	548.84	547.72	538.87	534.50	535.09	530.60	528.72	526.22	526.11	524.52	523.76	523.54	522.72	522.51	516.46	514.26	513.18
5	513.18	552.42	549.82	548.84	547.72	538.87	534.50	535.09	530.60	528.72	526.22	526.11	524.52	523.76	523.54	522.72	522.51	516.46	514.26	513.18
10	513.19	552.42	549.82	548.84	547.72	538.87	534.39	535.32	530.59	528.75	526.22	526.11	524.53	523.77	523.53	522.70	522.51	516.46	514.27	513.19
15	513.19	552.42	549.82	548.84	547.72	538.87	534.41	535.42	530.59	528.75	526.22	526.11	524.53	523.78	523.53	522.69	522.50	516.46	514.27	513.19
20	513.20	552.42	549.83	548.84	547.72	538.87	534.45	535.42	530.59	528.74	526.22	526.11	524.53	523.78	523.54	522.69	522.49	516.46	514.28	513.20
25	513.20	552.42	549.83	548.85	547.72	538.87	534.48	535.36	530.60	528.74	526.22	526.11	524.53	523.78	523.54	522.68	522.49	516.46	514.28	513.20
30	513.20	552.41	549.83	548.85	547.72	538.87	534.48	535.31	530.61	528.75	526.23	526.12	524.53	523.79	523.54	522.68	522.48	516.46	514.28	513.20
35	513.20	552.40	549.83	548.85	547.72	538.87	534.47	535.27	530.64	528.76	526.23	526.12	524.53	523.79	523.54	522.68	522.48	516.46	514.28	513.20
40	513.20	552.40	549.83	548.85	547.72	538.87	534.45	535.25	530.66	528.77	526.23	526.12	524.52	523.79	523.55	522.68	522.48	516.46	514.28	513.20
45	513.20	552.40	549.82	548.85	547.72	538.87	534.42	535.25	530.69	528.80	526.23	526.12	524.52	523.79	523.55	522.68	522.47	516.46	514.27	513.20
50	513.20	552.40	549.82	548.85	547.72	538.87	534.40	535.26	530.71	528.82	526.24	526.13	524.52	523.79	523.55	522.67	522.47	516.46	514.27	513.20
55	513.20	552.40	549.82	548.85	547.72	538.87	534.39	535.28	530.72	528.84	526.25	526.13	524.52	523.79	523.55	522.67	522.47	516.46	514.27	513.20
60	513.20	552.40	549.82	548.85	547.72	538.87	534.38	535.30	530.72	528.85	526.26	526.14	524.52	523.80	523.55	522.67	522.47	516.46	514.27	513.20
65	513.20	552.40	549.82	548.85	547.72	538.87	534.37	535.33	530.71	528.85	526.27	526.15	524.52	523.80	523.55	522.67	522.47	516.46	514.27	513.20
70	513.20	552.40	549.82	548.85	547.73	538.87	534.35	535.36	530.70	528.85	526.28	526.16	524.51	523.80	523.56	522.67	522.47	516.46	514.27	513.20
75	513.19	552.40	549.81	548.84	547.72	538.87	534.34	535.40	530.69	528.84	526.29	526.17	524.51	523.80	523.56	522.67	522.47	516.46	514.26	513.19
80	513.19	552.41	549.81	548.84	547.72	538.87	534.30	535.46	530.67	528.83	526.30	526.18	524.51	523.80	523.56	522.67	522.46	516.47	514.26	513.19
85	513.19	552.41	549.81	548.84	547.72	538.87	534.27	535.52	530.65	528.81	526.30	526.19	524.51	523.80	523.56	522.67	522.46	516.47	514.26	513.19
90	513.19	552.42	549.82	548.84	547.72	538.87	534.26	535.56	530.63	528.80	526.31	526.19	524.51	523.80	523.56	522.67	522.46	516.47	514.26	513.19
95	513.19	552.44	549.82	548.84	547.72	538.87	534.25	535.58	530.61	528.78	526.31	526.19	524.51	523.80	523.56	522.67	522.46	516.47	514.26	513.19
100	513.19	552.46	549.82	548.84	547.72	538.87	534.25	535.60	530.58	528.76	526.31	526.19	524.51	523.80	523.56	522.67	522.46	516.47	514.26	513.19
105	513.19	552.50	549.83	548.84	547.72	538.87	534.25	535.61	530.55	528.74	526.30	526.19	524.51	523.80	523.56	522.67	522.46	516.47	514.26	513.19
110	513.19	552.54	549.84	548.84	547.72	538.87	534.25	535.63	530.52	528.72	526.30	526.19	524.51	523.80	523.56	522.67	522.46	516.47	514.26	513.19
115	513.19	552.58	549.86	548.85	547.72	538.87	534.25	535.64	530.50	528.69	526.29	526.19	524.51	523.80	523.56	522.68	522.46	516.47	514.26	513.19

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos - Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
120	513.19	552.63	549.89	548.85	547.72	538.87	534.25	535.65	530.48	528.67	526.28	526.18	524.51	523.80	523.57	522.68	522.46	516.47	514.26	513.19
125	513.19	552.68	549.92	548.86	547.72	538.87	534.25	535.66	530.46	528.64	526.27	526.18	524.52	523.80	523.57	522.68	522.46	516.47	514.26	513.19
130	513.19	552.75	549.96	548.88	547.72	538.87	534.25	535.68	530.44	528.62	526.26	526.17	524.52	523.80	523.57	522.68	522.46	516.47	514.26	513.19
135	513.19	552.83	550.00	548.90	547.73	538.87	534.25	535.69	530.43	528.61	526.25	526.16	524.52	523.80	523.57	522.68	522.46	516.47	514.26	513.19
140	513.19	552.90	550.06	548.92	547.73	538.87	534.25	535.70	530.43	528.60	526.24	526.15	524.52	523.80	523.57	522.68	522.46	516.47	514.26	513.19
145	513.19	552.97	550.12	548.96	547.74	538.87	534.25	535.71	530.42	528.59	526.22	526.14	524.52	523.80	523.57	522.68	522.46	516.47	514.26	513.19
150	513.19	553.04	550.20	549.00	547.75	538.87	534.25	535.72	530.42	528.58	526.21	526.12	524.53	523.80	523.57	522.68	522.46	516.47	514.26	513.19
155	513.19	553.12	550.29	549.06	547.77	538.87	534.25	535.73	530.41	528.58	526.20	526.11	524.53	523.80	523.57	522.68	522.46	516.47	514.26	513.19
160	513.19	553.18	550.37	549.14	547.79	538.87	534.25	535.74	530.41	528.57	526.19	526.10	524.53	523.80	523.57	522.68	522.46	516.47	514.26	513.19
165	513.19	553.24	550.46	549.22	547.82	538.87	534.26	535.75	530.41	528.57	526.18	526.09	524.53	523.81	523.57	522.68	522.46	516.47	514.27	513.19
170	513.19	553.30	550.55	549.31	547.86	538.87	534.26	535.76	530.41	528.57	526.17	526.08	524.53	523.81	523.57	522.68	522.46	516.47	514.27	513.19
175	513.19	553.36	550.64	549.40	547.91	538.87	534.26	535.77	530.41	528.57	526.16	526.07	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
180	513.19	553.41	550.72	549.50	547.98	538.87	534.26	535.78	530.41	528.57	526.15	526.06	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
185	513.19	553.46	550.81	549.60	548.05	538.87	534.26	535.79	530.42	528.57	526.14	526.05	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
190	513.19	553.51	550.89	549.69	548.13	538.87	534.26	535.80	530.42	528.57	526.13	526.05	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
195	513.19	553.57	550.97	549.78	548.22	538.87	534.26	535.81	530.42	528.57	526.13	526.04	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
200	513.19	553.62	551.05	549.86	548.31	538.87	534.26	535.82	530.42	528.57	526.12	526.03	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
205	513.19	553.66	551.13	549.93	548.41	538.87	534.26	535.83	530.42	528.58	526.12	526.03	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
210	513.19	553.70	551.20	550.00	548.50	538.87	534.26	535.84	530.42	528.58	526.11	526.02	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
215	513.19	553.74	551.27	550.07	548.58	538.87	534.26	535.84	530.42	528.58	526.11	526.02	524.52	523.81	523.57	522.68	522.47	516.47	514.27	513.19
220	513.19	553.78	551.34	550.13	548.66	538.87	534.26	535.85	530.42	528.58	526.10	526.01	524.52	523.82	523.58	522.68	522.47	516.47	514.27	513.19
225	513.20	553.81	551.40	550.19	548.74	538.88	534.27	535.86	530.43	528.58	526.10	526.01	524.52	523.82	523.58	522.68	522.47	516.47	514.27	513.20
230	513.20	553.84	551.45	550.25	548.81	538.88	534.27	535.87	530.43	528.58	526.10	526.01	524.52	523.82	523.58	522.68	522.47	516.47	514.27	513.20
235	513.20	553.87	551.51	550.30	548.88	538.88	534.27	535.88	530.43	528.58	526.09	526.00	524.51	523.82	523.58	522.68	522.47	516.47	514.27	513.20
240	513.20	553.90	551.56	550.35	548.95	538.89	534.27	535.89	530.43	528.58	526.09	526.00	524.51	523.82	523.58	522.68	522.47	516.47	514.27	513.20

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Constru- ções	Ponte da Estrada Rio Acima	Ponte a montante da Confluên- cia	Confluên- cia com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos - Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
245	513.20	553.92	551.60	550.39	549.01	538.90	534.27	535.89	530.43	528.59	526.09	526.00	524.50	523.82	523.58	522.68	522.47	516.47	514.27	513.20
250	513.20	553.94	551.64	550.43	549.07	538.92	534.27	535.90	530.43	528.59	526.09	525.99	524.50	523.82	523.58	522.68	522.47	516.47	514.27	513.20
255	513.20	553.98	551.68	550.47	549.12	538.94	534.27	535.91	530.43	528.59	526.09	525.99	524.50	523.82	523.58	522.68	522.47	516.47	514.27	513.20
260	513.20	554.14	551.73	550.51	549.17	538.98	534.27	535.92	530.43	528.59	526.08	525.99	524.49	523.82	523.58	522.69	522.47	516.47	514.27	513.20
265	513.20	554.32	551.85	550.55	549.22	539.04	534.27	535.92	530.44	528.59	526.08	525.99	524.49	523.82	523.58	522.69	522.47	516.47	514.27	513.20
270	513.19	554.45	552.01	550.64	549.27	539.12	534.27	535.93	530.44	528.59	526.08	525.99	524.49	523.82	523.58	522.69	522.47	516.47	514.27	513.19
275	513.19	554.53	552.17	550.76	549.33	539.22	534.28	535.94	530.44	528.59	526.08	525.99	524.48	523.81	523.58	522.69	522.47	516.47	514.27	513.19
280	513.19	554.58	552.31	550.88	549.41	539.33	534.28	535.95	530.44	528.59	526.08	525.99	524.48	523.81	523.58	522.69	522.47	516.47	514.27	513.19
285	513.19	554.62	552.42	551.00	549.51	539.47	534.28	535.95	530.44	528.60	526.08	525.99	524.47	523.81	523.58	522.69	522.47	516.47	514.27	513.19
290	513.19	554.65	552.51	551.09	549.62	539.59	534.29	535.96	530.44	528.60	526.08	525.99	524.47	523.81	523.58	522.69	522.47	516.47	514.27	513.19
295	513.19	554.69	552.59	551.17	549.72	539.72	534.29	535.96	530.44	528.60	526.08	525.99	524.47	523.81	523.58	522.69	522.47	516.47	514.27	513.19
300	513.19	554.74	552.66	551.24	549.81	539.84	534.31	535.97	530.45	528.60	526.08	525.98	524.46	523.81	523.58	522.69	522.47	516.47	514.27	513.19
305	513.19	554.80	552.73	551.30	549.90	539.95	534.46	535.89	530.45	528.60	526.08	525.98	524.46	523.81	523.58	522.69	522.47	516.47	514.27	513.19
310	513.19	554.83	552.81	551.36	549.97	540.05	534.71	535.68	530.45	528.60	526.08	525.98	524.46	523.81	523.58	522.69	522.47	516.47	514.27	513.19
315	513.19	554.81	552.86	551.43	550.05	540.15	534.80	535.43	530.46	528.61	526.08	525.98	524.45	523.80	523.58	522.69	522.47	516.47	514.27	513.19
320	513.19	554.77	552.88	551.47	550.12	540.25	534.78	535.34	530.50	528.61	526.08	525.99	524.45	523.80	523.57	522.69	522.47	516.47	514.27	513.19
325	513.19	554.71	552.87	551.49	550.18	540.35	534.77	535.31	530.62	528.64	526.08	525.99	524.45	523.80	523.57	522.69	522.47	516.47	514.27	513.19
330	513.19	554.65	552.84	551.49	550.22	540.46	534.79	535.29	530.81	528.74	526.09	525.99	524.44	523.80	523.57	522.69	522.47	516.47	514.27	513.19
335	513.19	554.60	552.79	551.48	550.25	540.57	534.82	535.27	530.95	528.90	526.09	525.99	524.44	523.79	523.57	522.69	522.47	516.47	514.27	513.19
340	513.19	554.54	552.74	551.45	550.26	540.69	534.86	535.26	531.06	529.04	526.12	525.99	524.44	523.79	523.57	522.68	522.47	516.47	514.26	513.19
345	513.19	554.49	552.68	551.42	550.27	540.81	534.91	535.24	531.13	529.15	526.17	526.01	524.43	523.79	523.57	522.68	522.47	516.47	514.26	513.19
350	513.19	554.44	552.63	551.38	550.26	540.92	534.97	535.23	531.19	529.22	526.24	526.04	524.43	523.79	523.56	522.68	522.47	516.47	514.26	513.19
355	513.19	554.39	552.57	551.34	550.24	541.03	535.03	535.23	531.25	529.27	526.32	526.10	524.43	523.78	523.56	522.68	522.47	516.47	514.26	513.19
360	513.19	554.34	552.50	551.30	550.22	541.13	535.09	535.24	531.32	529.33	526.40	526.16	524.42	523.78	523.56	522.68	522.47	516.47	514.26	513.19
365	513.19	554.30	552.44	551.25	550.19	541.21	535.16	535.25	531.39	529.40	526.47	526.23	524.42	523.78	523.56	522.68	522.47	516.47	514.26	513.19

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Constru- ções	Ponte da Estrada Rio Acima	Ponte a montante da Confluên- cia	Confluên- cia com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos - Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
370	513.19	554.25	552.38	551.21	550.16	541.28	535.22	535.28	531.47	529.46	526.55	526.31	524.42	523.78	523.55	522.68	522.47	516.47	514.26	513.19
375	513.19	554.21	552.32	551.16	550.13	541.34	535.29	535.32	531.55	529.54	526.63	526.38	524.42	523.77	523.55	522.68	522.47	516.47	514.26	513.19
380	513.19	554.16	552.26	551.12	550.09	541.39	535.35	535.37	531.64	529.61	526.72	526.47	524.42	523.77	523.55	522.68	522.47	516.47	514.26	513.19
385	513.19	554.12	552.20	551.07	550.05	541.42	535.40	535.42	531.72	529.70	526.81	526.55	524.41	523.77	523.55	522.68	522.47	516.47	514.26	513.19
390	513.19	554.08	552.14	551.02	550.01	541.44	535.45	535.46	531.81	529.78	526.91	526.64	524.41	523.77	523.54	522.67	522.47	516.47	514.26	513.19
395	513.19	554.04	552.09	550.98	549.97	541.44	535.49	535.50	531.89	529.85	527.01	526.74	524.41	523.76	523.54	522.67	522.47	516.47	514.26	513.19
400	513.19	554.00	552.03	550.93	549.93	541.44	535.53	535.53	531.96	529.93	527.12	526.84	524.42	523.76	523.54	522.67	522.46	516.47	514.26	513.19
405	513.19	553.96	551.98	550.89	549.88	541.44	535.56	535.56	532.01	529.99	527.22	526.94	524.42	523.76	523.54	522.67	522.46	516.47	514.26	513.19
410	513.19	553.92	551.92	550.84	549.84	541.42	535.58	535.58	532.06	530.04	527.32	527.04	524.43	523.75	523.53	522.67	522.46	516.47	514.26	513.19
415	513.19	553.89	551.87	550.80	549.80	541.40	535.59	535.59	532.10	530.09	527.42	527.13	524.45	523.75	523.53	522.67	522.46	516.47	514.26	513.19
420	513.19	553.85	551.82	550.75	549.76	541.37	535.60	535.60	532.13	530.12	527.51	527.23	524.47	523.75	523.53	522.67	522.46	516.47	514.26	513.19
425	513.19	553.82	551.77	550.71	549.72	541.35	535.61	535.61	532.15	530.15	527.59	527.31	524.49	523.75	523.53	522.66	522.46	516.47	514.26	513.19
430	513.19	553.78	551.72	550.67	549.67	541.31	535.61	535.61	532.17	530.17	527.66	527.38	524.53	523.74	523.52	522.66	522.46	516.47	514.26	513.19
435	513.19	553.75	551.67	550.63	549.63	541.28	535.61	535.61	532.18	530.18	527.71	527.44	524.58	523.74	523.52	522.66	522.45	516.47	514.26	513.19
440	513.19	553.72	551.63	550.59	549.59	541.25	535.60	535.61	532.19	530.19	527.76	527.49	524.65	523.74	523.52	522.66	522.45	516.47	514.26	513.19
445	513.19	553.69	551.58	550.55	549.55	541.21	535.60	535.60	532.19	530.20	527.80	527.53	524.72	523.74	523.52	522.66	522.45	516.47	514.26	513.19
450	513.19	553.66	551.54	550.51	549.51	541.17	535.59	535.59	532.19	530.20	527.84	527.57	524.81	523.74	523.51	522.65	522.45	516.47	514.26	513.19
455	513.19	553.63	551.49	550.48	549.47	541.13	535.58	535.58	532.18	530.20	527.86	527.60	524.90	523.75	523.51	522.65	522.45	516.47	514.26	513.19
460	513.19	553.60	551.45	550.44	549.43	541.09	535.56	535.57	532.18	530.19	527.89	527.63	524.99	523.75	523.51	522.65	522.45	516.47	514.26	513.19
465	513.19	553.57	551.41	550.40	549.40	541.05	535.55	535.56	532.17	530.19	527.90	527.65	525.08	523.76	523.51	522.65	522.44	516.47	514.26	513.19
470	513.19	553.54	551.37	550.37	549.36	541.01	535.53	535.54	532.15	530.18	527.91	527.67	525.16	523.77	523.52	522.65	522.44	516.47	514.26	513.19
475	513.19	553.51	551.33	550.33	549.32	540.97	535.51	535.53	532.14	530.17	527.92	527.68	525.23	523.79	523.52	522.65	522.44	516.47	514.26	513.19
480	513.19	553.48	551.29	550.30	549.29	540.93	535.49	535.51	532.12	530.15	527.92	527.68	525.30	523.82	523.53	522.65	522.44	516.47	514.26	513.19
485	513.19	553.46	551.25	550.26	549.25	540.90	535.47	535.49	532.10	530.14	527.92	527.69	525.36	523.85	523.54	522.65	522.44	516.47	514.26	513.19
490	513.19	553.43	551.22	550.23	549.22	540.86	535.45	535.47	532.09	530.12	527.92	527.69	525.42	523.89	523.55	522.65	522.44	516.47	514.26	513.19

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Constru- ções	Ponte da Estrada Rio Acima	Ponte a montante da Confluên- cia	Confluên- cia com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos - Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
495	513.19	553.41	551.18	550.20	549.18	540.82	535.43	535.45	532.07	530.10	527.91	527.69	525.47	523.93	523.57	522.65	522.44	516.47	514.26	513.19
500	513.19	553.39	551.15	550.17	549.15	540.78	535.41	535.43	532.05	530.09	527.91	527.68	525.52	523.99	523.60	522.65	522.44	516.47	514.26	513.19
505	513.19	553.37	551.11	550.14	549.12	540.74	535.38	535.41	532.02	530.07	527.89	527.68	525.56	524.05	523.63	522.66	522.44	516.47	514.27	513.19
510	513.19	553.34	551.08	550.11	549.08	540.71	535.36	535.39	532.00	530.05	527.88	527.67	525.60	524.12	523.67	522.67	522.44	516.47	514.27	513.19
515	513.19	553.32	551.05	550.09	549.05	540.67	535.34	535.37	531.98	530.03	527.87	527.66	525.64	524.19	523.72	522.68	522.45	516.47	514.27	513.19
520	513.19	553.30	551.02	550.06	549.02	540.63	535.32	535.35	531.96	530.00	527.85	527.64	525.67	524.26	523.77	522.69	522.45	516.47	514.27	513.19
525	513.19	553.27	550.99	550.03	548.99	540.60	535.29	535.33	531.93	529.98	527.83	527.63	525.70	524.34	523.83	522.71	522.46	516.47	514.27	513.19
530	513.19	553.25	550.96	550.00	548.96	540.56	535.27	535.31	531.91	529.96	527.81	527.61	525.72	524.41	523.89	522.73	522.47	516.47	514.27	513.19
535	513.19	553.23	550.93	549.98	548.94	540.53	535.25	535.30	531.89	529.94	527.80	527.60	525.74	524.48	523.95	522.76	522.48	516.47	514.27	513.19
540	513.19	553.21	550.90	549.95	548.91	540.49	535.23	535.28	531.86	529.91	527.77	527.58	525.76	524.54	524.02	522.79	522.50	516.46	514.27	513.19
545	513.19	553.19	550.87	549.93	548.88	540.46	535.21	535.27	531.84	529.89	527.75	527.56	525.78	524.61	524.09	522.83	522.53	516.46	514.27	513.19
550	513.19	553.17	550.85	549.90	548.85	540.43	535.19	535.25	531.81	529.87	527.73	527.54	525.79	524.67	524.16	522.87	522.55	516.46	514.27	513.19
555	513.19	553.15	550.82	549.88	548.83	540.39	535.17	535.24	531.79	529.85	527.71	527.52	525.80	524.73	524.23	522.91	522.58	516.46	514.26	513.19
560	513.19	553.13	550.79	549.86	548.80	540.36	535.15	535.23	531.76	529.82	527.69	527.50	525.81	524.78	524.30	522.96	522.62	516.46	514.26	513.19
565	513.19	553.11	550.77	549.83	548.78	540.33	535.13	535.22	531.74	529.80	527.66	527.48	525.82	524.83	524.36	523.00	522.66	516.46	514.26	513.19
570	513.19	553.10	550.74	549.81	548.75	540.30	535.11	535.21	531.72	529.78	527.64	527.46	525.83	524.88	524.43	523.05	522.70	516.46	514.26	513.19
575	513.19	553.08	550.72	549.79	548.73	540.27	535.09	535.20	531.69	529.76	527.62	527.44	525.83	524.92	524.49	523.10	522.75	516.46	514.26	513.19
580	513.19	553.06	550.69	549.77	548.70	540.24	535.07	535.19	531.67	529.74	527.59	527.42	525.83	524.96	524.54	523.15	522.79	516.46	514.26	513.19
585	513.19	553.04	550.67	549.75	548.68	540.21	535.05	535.19	531.65	529.71	527.57	527.40	525.84	525.00	524.60	523.20	522.84	516.46	514.26	513.19
590	513.19	553.02	550.65	549.72	548.66	540.18	535.03	535.18	531.63	529.69	527.55	527.38	525.84	525.04	524.65	523.25	522.89	516.46	514.26	513.19
595	513.19	553.00	550.62	549.70	548.63	540.16	535.01	535.18	531.61	529.67	527.52	527.36	525.84	525.07	524.69	523.29	522.94	516.46	514.26	513.19
600	513.19	552.98	550.60	549.68	548.61	540.13	535.00	535.17	531.59	529.65	527.50	527.34	525.84	525.10	524.73	523.34	522.99	516.46	514.26	513.19
605	513.19	552.96	550.58	549.66	548.59	540.10	534.98	535.17	531.56	529.63	527.48	527.32	525.84	525.13	524.77	523.38	523.04	516.46	514.26	513.19
610	513.19	552.94	550.55	549.64	548.57	540.08	534.96	535.17	531.54	529.61	527.45	527.29	525.84	525.15	524.81	523.42	523.09	516.46	514.26	513.19
615	513.19	552.92	550.53	549.62	548.55	540.05	534.95	535.16	531.52	529.59	527.43	527.27	525.84	525.17	524.84	523.46	523.13	516.46	514.26	513.19

T (min)	Sítio São Benedito	NA (m)																		
		Estrada e Ponte das Primaveras	Alameda Vale do Sol	Constru- ções	Ponte da Estrada Rio Acima	Ponte a montante da Confluên- cia	Confluên- cia com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos - Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
620	513.19	552.90	550.51	549.60	548.53	540.03	534.93	535.16	531.50	529.57	527.41	527.25	525.84	525.19	524.87	523.49	523.17	516.46	514.26	513.19
625	513.19	552.88	550.49	549.58	548.50	540.01	534.92	535.16	531.48	529.55	527.39	527.23	525.83	525.21	524.89	523.52	523.22	516.46	514.26	513.19
630	513.19	552.87	550.46	549.56	548.48	539.98	534.90	535.16	531.46	529.53	527.37	527.21	525.83	525.23	524.92	523.56	523.25	516.46	514.26	513.19
635	513.19	552.85	550.44	549.54	548.46	539.96	534.89	535.15	531.44	529.52	527.34	527.19	525.83	525.24	524.94	523.59	523.29	516.46	514.26	513.19
640	513.19	552.84	550.42	549.52	548.44	539.94	534.88	535.15	531.42	529.50	527.32	527.17	525.82	525.25	524.96	523.61	523.33	516.46	514.26	513.19
645	513.19	552.82	550.40	549.50	548.42	539.92	534.86	535.15	531.40	529.48	527.30	527.15	525.82	525.27	524.97	523.64	523.36	516.47	514.26	513.19
650	513.18	552.81	550.38	549.48	548.40	539.89	534.85	535.15	531.38	529.47	527.28	527.14	525.81	525.28	524.99	523.66	523.39	516.47	514.26	513.18
655	513.18	552.79	550.36	549.46	548.39	539.87	534.84	535.15	531.37	529.45	527.26	527.12	525.81	525.28	525.00	523.68	523.42	516.48	514.26	513.18
660	513.18	552.77	550.34	549.44	548.37	539.85	534.83	535.15	531.35	529.44	527.24	527.10	525.80	525.29	525.02	523.70	523.44	516.49	514.26	513.18
665	513.18	552.75	550.32	549.42	548.35	539.83	534.82	535.15	531.34	529.42	527.22	527.08	525.80	525.30	525.03	523.72	523.47	516.50	514.26	513.18
670	513.18	552.74	550.30	549.40	548.33	539.81	534.80	535.15	531.32	529.41	527.20	527.06	525.79	525.30	525.04	523.74	523.49	516.51	514.26	513.18
675	513.18	552.72	550.28	549.38	548.31	539.79	534.79	535.15	531.30	529.39	527.18	527.04	525.78	525.31	525.04	523.75	523.51	516.53	514.26	513.18
680	513.18	552.70	550.27	549.36	548.30	539.77	534.78	535.15	531.29	529.38	527.16	527.03	525.78	525.31	525.05	523.77	523.52	516.55	514.26	513.18
685	513.18	552.68	550.25	549.34	548.28	539.75	534.77	535.15	531.28	529.36	527.15	527.01	525.77	525.31	525.06	523.78	523.54	516.57	514.26	513.18
690	513.18	552.67	550.23	549.32	548.26	539.73	534.76	535.15	531.26	529.35	527.13	526.99	525.76	525.31	525.06	523.79	523.55	516.60	514.26	513.18
695	513.19	552.65	550.21	549.30	548.24	539.71	534.75	535.15	531.25	529.34	527.11	526.98	525.76	525.31	525.06	523.80	523.57	516.63	514.27	513.19
700	513.19	552.63	550.19	549.29	548.23	539.70	534.74	535.15	531.23	529.32	527.09	526.96	525.75	525.31	525.07	523.81	523.58	516.66	514.27	513.19
705	513.19	552.62	550.17	549.27	548.21	539.68	534.73	535.15	531.21	529.31	527.08	526.94	525.74	525.31	525.07	523.82	523.59	516.69	514.28	513.19
710	513.19	552.60	550.15	549.25	548.19	539.66	534.72	535.15	531.20	529.30	527.06	526.93	525.73	525.31	525.07	523.83	523.60	516.72	514.28	513.19
715	513.20	552.59	550.14	549.23	548.18	539.64	534.71	535.15	531.19	529.28	527.04	526.91	525.72	525.31	525.07	523.83	523.61	516.75	514.29	513.20
720	513.20	552.57	550.12	549.22	548.16	539.63	534.70	535.15	531.17	529.27	527.03	526.90	525.71	525.30	525.07	523.84	523.61	516.78	514.31	513.20
725	513.21	552.56	550.10	549.20	548.14	539.61	534.70	535.15	531.16	529.26	527.01	526.88	525.71	525.30	525.07	523.84	523.62	516.81	514.32	513.21
730	513.22	552.55	550.08	549.18	548.13	539.59	534.69	535.15	531.14	529.25	527.00	526.87	525.70	525.30	525.06	523.84	523.63	516.84	514.33	513.22
735	513.24	552.54	550.06	549.17	548.11	539.58	534.68	535.15	531.13	529.23	526.98	526.86	525.69	525.29	525.06	523.85	523.63	516.88	514.35	513.24
740	513.25	552.52	550.05	549.15	548.10	539.56	534.67	535.15	531.12	529.22	526.97	526.84	525.68	525.29	525.06	523.85	523.63	516.91	514.37	513.25

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Constru- ções	Ponte da Estrada Rio Acima	Ponte a montante da Confluên- cia	Confluên- cia com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos - Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
745	513.27	552.51	550.03	549.13	548.08	539.54	534.66	535.15	531.11	529.21	526.95	526.83	525.67	525.28	525.05	523.85	523.63	516.95	514.40	513.27
750	513.28	552.50	550.01	549.11	548.07	539.53	534.66	535.15	531.10	529.20	526.94	526.81	525.66	525.27	525.05	523.85	523.64	516.98	514.42	513.28
755	513.30	552.49	550.00	549.09	548.05	539.51	534.65	535.15	531.08	529.19	526.92	526.80	525.65	525.27	525.04	523.85	523.64	517.00	514.45	513.30
760	513.32	552.48	549.98	549.08	548.04	539.49	534.64	535.15	531.07	529.18	526.91	526.79	525.64	525.26	525.04	523.85	523.64	517.03	514.48	513.32
765	513.35	552.47	549.97	549.06	548.02	539.48	534.63	535.15	531.06	529.17	526.90	526.77	525.63	525.25	525.03	523.85	523.64	517.06	514.51	513.35
770	513.37	552.46	549.96	549.04	548.01	539.46	534.63	535.15	531.05	529.16	526.88	526.76	525.62	525.25	525.03	523.85	523.64	517.08	514.54	513.37
775	513.40	552.46	549.95	549.03	547.99	539.45	534.62	535.15	531.04	529.15	526.87	526.75	525.61	525.24	525.02	523.84	523.64	517.11	514.58	513.40
780	513.42	552.45	549.93	549.01	547.98	539.43	534.61	535.15	531.03	529.14	526.86	526.74	525.60	525.23	525.01	523.84	523.63	517.13	514.61	513.42
785	513.46	552.44	549.92	549.00	547.96	539.42	534.60	535.15	531.02	529.13	526.84	526.72	525.59	525.22	525.01	523.84	523.63	517.15	514.65	513.46
790	513.49	552.44	549.91	548.99	547.95	539.40	534.60	535.15	531.01	529.12	526.83	526.71	525.58	525.22	525.00	523.83	523.63	517.17	514.68	513.49
795	513.53	552.43	549.90	548.97	547.93	539.39	534.59	535.15	531.00	529.11	526.82	526.70	525.57	525.21	524.99	523.83	523.63	517.19	514.71	513.53
800	513.56	552.43	549.89	548.96	547.92	539.38	534.58	535.15	530.99	529.10	526.80	526.69	525.56	525.20	524.98	523.83	523.62	517.21	514.74	513.56
805	513.59	552.42	549.88	548.95	547.91	539.36	534.58	535.15	530.98	529.09	526.79	526.67	525.55	525.19	524.97	523.82	523.62	517.23	514.77	513.59
810	513.62	552.42	549.88	548.94	547.89	539.35	534.57	535.15	530.97	529.09	526.78	526.66	525.54	525.18	524.97	523.82	523.62	517.24	514.80	513.62
815	513.65	552.42	549.87	548.93	547.88	539.33	534.56	535.15	530.96	529.08	526.77	526.65	525.53	525.17	524.96	523.81	523.61	517.26	514.83	513.65
820	513.67	552.41	549.86	548.92	547.87	539.32	534.56	535.15	530.95	529.07	526.76	526.64	525.52	525.16	524.95	523.81	523.61	517.27	514.86	513.67
825	513.69	552.41	549.86	548.91	547.86	539.30	534.55	535.15	530.94	529.06	526.74	526.63	525.51	525.15	524.94	523.80	523.60	517.28	514.88	513.69
830	513.72	552.41	549.85	548.91	547.84	539.29	534.55	535.15	530.93	529.05	526.73	526.62	525.50	525.14	524.93	523.80	523.60	517.29	514.90	513.72
835	513.74	552.41	549.85	548.90	547.83	539.27	534.54	535.15	530.92	529.04	526.72	526.61	525.49	525.13	524.92	523.79	523.59	517.30	514.92	513.74
840	513.76	552.41	549.84	548.89	547.82	539.26	534.54	535.15	530.91	529.04	526.71	526.59	525.48	525.12	524.91	523.79	523.59	517.31	514.94	513.76
845	513.78	552.41	549.84	548.89	547.81	539.24	534.53	535.15	530.90	529.03	526.70	526.58	525.47	525.11	524.90	523.78	523.58	517.32	514.96	513.78
850	513.79	552.40	549.84	548.88	547.81	539.23	534.52	535.15	530.89	529.02	526.69	526.57	525.46	525.10	524.89	523.77	523.58	517.32	514.98	513.79
855	513.81	552.40	549.83	548.88	547.80	539.22	534.52	535.15	530.88	529.01	526.68	526.56	525.45	525.09	524.88	523.77	523.57	517.33	515.00	513.81
860	513.83	552.40	549.83	548.87	547.79	539.20	534.51	535.15	530.87	529.00	526.67	526.55	525.43	525.08	524.87	523.76	523.56	517.33	515.02	513.83
865	513.85	552.40	549.83	548.87	547.78	539.19	534.51	535.15	530.86	528.99	526.66	526.54	525.42	525.07	524.86	523.75	523.56	517.34	515.03	513.85

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Constru- ções	Ponte da Estrada Rio Acima	Ponte a montante da Confluên- cia	Confluên- cia com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos - Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
870	513.86	552.40	549.82	548.86	547.78	539.18	534.50	535.15	530.85	528.98	526.65	526.53	525.41	525.06	524.85	523.75	523.55	517.34	515.05	513.86
875	513.87	552.40	549.82	548.86	547.77	539.16	534.50	535.15	530.85	528.98	526.64	526.52	525.40	525.05	524.84	523.74	523.54	517.35	515.06	513.87
880	513.88	552.40	549.82	548.86	547.77	539.15	534.49	535.15	530.84	528.97	526.63	526.51	525.39	525.04	524.83	523.73	523.54	517.35	515.08	513.88
885	513.89	552.40	549.82	548.86	547.76	539.14	534.49	535.15	530.83	528.96	526.62	526.51	525.38	525.03	524.82	523.72	523.53	517.35	515.09	513.89
890	513.90	552.40	549.82	548.85	547.76	539.13	534.48	535.15	530.82	528.95	526.61	526.50	525.37	525.02	524.81	523.72	523.52	517.35	515.10	513.90
895	513.91	552.40	549.82	548.85	547.75	539.11	534.48	535.15	530.81	528.95	526.60	526.49	525.36	525.01	524.80	523.71	523.51	517.35	515.11	513.91
900	513.92	552.40	549.82	548.85	547.75	539.10	534.47	535.15	530.81	528.94	526.59	526.48	525.35	525.00	524.79	523.70	523.51	517.35	515.12	513.92
905	513.92	552.40	549.82	548.85	547.74	539.09	534.47	535.15	530.80	528.93	526.58	526.47	525.34	524.99	524.78	523.69	523.50	517.35	515.13	513.92
910	513.93	552.40	549.81	548.85	547.74	539.08	534.46	535.15	530.79	528.93	526.57	526.46	525.33	524.98	524.77	523.68	523.49	517.35	515.13	513.93
915	513.94	552.40	549.81	548.84	547.74	539.07	534.46	535.15	530.78	528.92	526.56	526.45	525.32	524.97	524.76	523.68	523.48	517.35	515.14	513.94
920	513.94	552.40	549.81	548.84	547.74	539.06	534.45	535.15	530.78	528.91	526.55	526.44	525.31	524.96	524.75	523.67	523.48	517.35	515.15	513.94
925	513.95	552.40	549.81	548.84	547.73	539.05	534.45	535.15	530.77	528.91	526.54	526.43	525.30	524.95	524.74	523.66	523.47	517.35	515.15	513.95
930	513.95	552.40	549.81	548.84	547.73	539.04	534.44	535.15	530.76	528.90	526.53	526.43	525.29	524.93	524.73	523.65	523.46	517.35	515.16	513.95
935	513.95	552.40	549.81	548.84	547.73	539.03	534.44	535.15	530.76	528.89	526.52	526.42	525.28	524.92	524.72	523.64	523.45	517.35	515.16	513.95
940	513.96	552.40	549.81	548.84	547.73	539.02	534.44	535.15	530.75	528.89	526.52	526.41	525.27	524.91	524.71	523.64	523.45	517.35	515.17	513.96
945	513.96	552.40	549.81	548.84	547.73	539.01	534.43	535.15	530.74	528.88	526.51	526.40	525.26	524.90	524.70	523.63	523.44	517.34	515.17	513.96
950	513.96	552.40	549.81	548.84	547.72	539.00	534.43	535.15	530.74	528.88	526.50	526.39	525.25	524.89	524.69	523.62	523.43	517.34	515.17	513.96
955	513.97	552.40	549.81	548.84	547.72	538.99	534.42	535.15	530.73	528.87	526.49	526.38	525.24	524.88	524.68	523.61	523.42	517.34	515.17	513.97
960	513.97	552.40	549.81	548.84	547.72	538.98	534.42	535.15	530.72	528.86	526.48	526.38	525.23	524.87	524.67	523.60	523.41	517.33	515.17	513.97
965	513.97	552.40	549.81	548.84	547.72	538.97	534.42	535.15	530.72	528.86	526.47	526.37	525.22	524.86	524.65	523.60	523.41	517.33	515.17	513.97
970	513.97	552.40	549.81	548.84	547.72	538.96	534.41	535.15	530.71	528.85	526.47	526.36	525.21	524.85	524.64	523.59	523.40	517.33	515.17	513.97
975	513.97	552.40	549.81	548.84	547.72	538.96	534.41	535.16	530.71	528.85	526.46	526.35	525.20	524.84	524.63	523.58	523.39	517.32	515.17	513.97
980	513.97	552.40	549.81	548.83	547.72	538.95	534.41	535.16	530.70	528.84	526.45	526.35	525.19	524.83	524.62	523.57	523.38	517.32	515.17	513.97
985	513.97	552.40	549.81	548.83	547.72	538.94	534.41	535.16	530.69	528.84	526.44	526.34	525.18	524.81	524.61	523.56	523.38	517.31	515.17	513.97
990	513.97	552.40	549.81	548.83	547.72	538.94	534.40	535.16	530.69	528.83	526.43	526.33	525.17	524.80	524.60	523.56	523.37	517.31	515.17	513.97

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Constru- ções	Ponte da Estrada Rio Acima	Ponte a montante da Confluên- cia	Confluên- cia com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos - Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
995	513.97	552.40	549.81	548.83	547.72	538.93	534.40	535.16	530.68	528.83	526.43	526.32	525.16	524.79	524.59	523.55	523.36	517.30	515.17	513.97
1000	513.97	552.40	549.81	548.83	547.72	538.92	534.40	535.17	530.68	528.82	526.42	526.32	525.15	524.78	524.58	523.54	523.35	517.30	515.17	513.97
1005	513.97	552.40	549.81	548.83	547.71	538.92	534.39	535.17	530.67	528.82	526.41	526.31	525.14	524.77	524.57	523.53	523.34	517.29	515.17	513.97
1010	513.97	552.40	549.81	548.83	547.71	538.91	534.39	535.17	530.67	528.81	526.41	526.30	525.13	524.76	524.56	523.52	523.34	517.29	515.16	513.97
1015	513.96	552.40	549.81	548.83	547.71	538.91	534.39	535.18	530.67	528.81	526.40	526.30	525.12	524.75	524.55	523.52	523.33	517.28	515.16	513.96
1020	513.96	552.40	549.81	548.83	547.71	538.91	534.38	535.18	530.66	528.81	526.39	526.29	525.11	524.74	524.54	523.51	523.32	517.28	515.16	513.96
1025	513.96	552.40	549.81	548.83	547.71	538.90	534.38	535.18	530.66	528.80	526.39	526.28	525.10	524.73	524.53	523.50	523.31	517.27	515.16	513.96
1030	513.96	552.40	549.81	548.83	547.71	538.90	534.38	535.19	530.65	528.80	526.38	526.28	525.09	524.72	524.52	523.49	523.30	517.27	515.15	513.96
1035	513.96	552.40	549.81	548.83	547.71	538.89	534.38	535.20	530.65	528.79	526.37	526.27	525.08	524.71	524.51	523.48	523.30	517.26	515.15	513.96
1040	513.95	552.40	549.81	548.83	547.71	538.89	534.37	535.20	530.64	528.79	526.37	526.27	525.07	524.70	524.50	523.48	523.29	517.26	515.15	513.95
1045	513.95	552.40	549.81	548.83	547.71	538.89	534.37	535.21	530.64	528.79	526.36	526.26	525.06	524.69	524.49	523.47	523.28	517.25	515.14	513.95
1050	513.95	552.40	549.81	548.83	547.71	538.89	534.37	535.22	530.63	528.78	526.36	526.26	525.05	524.68	524.48	523.46	523.27	517.25	515.14	513.95
1055	513.94	552.40	549.81	548.83	547.71	538.88	534.36	535.23	530.63	528.78	526.35	526.25	525.04	524.67	524.47	523.45	523.27	517.24	515.13	513.94
1060	513.94	552.40	549.81	548.83	547.71	538.88	534.36	535.25	530.62	528.77	526.35	526.25	525.03	524.66	524.46	523.44	523.26	517.24	515.13	513.94
1065	513.94	552.40	549.81	548.83	547.71	538.88	534.35	535.26	530.62	528.77	526.34	526.24	525.02	524.65	524.45	523.44	523.25	517.23	515.12	513.94
1070	513.93	552.40	549.81	548.83	547.71	538.88	534.35	535.28	530.61	528.77	526.34	526.24	525.01	524.64	524.44	523.43	523.24	517.23	515.12	513.93
1075	513.93	552.40	549.81	548.83	547.71	538.88	534.34	535.31	530.61	528.76	526.33	526.23	525.00	524.63	524.43	523.42	523.23	517.22	515.11	513.93
1080	513.93	552.40	549.81	548.83	547.71	538.88	534.33	535.34	530.60	528.76	526.33	526.23	524.99	524.62	524.42	523.41	523.23	517.22	515.10	513.93
1085	513.92	552.40	549.81	548.83	547.71	538.87	534.30	535.39	530.59	528.75	526.32	526.22	524.98	524.61	524.41	523.40	523.22	517.21	515.10	513.92
1090	513.92	552.40	549.81	548.83	547.71	538.87	534.28	535.45	530.58	528.75	526.31	526.22	524.98	524.60	524.40	523.40	523.21	517.20	515.09	513.92
1095	513.92	552.40	549.81	548.83	547.71	538.87	534.27	535.49	530.57	528.74	526.31	526.21	524.97	524.59	524.38	523.39	523.20	517.20	515.09	513.92
1100	513.91	552.40	549.81	548.83	547.71	538.87	534.26	535.52	530.56	528.73	526.30	526.20	524.96	524.58	524.37	523.38	523.19	517.19	515.08	513.91
1105	513.91	552.40	549.81	548.83	547.71	538.87	534.26	535.54	530.55	528.72	526.30	526.20	524.95	524.57	524.36	523.37	523.19	517.19	515.08	513.91
1110	513.91	552.40	549.81	548.83	547.71	538.87	534.26	535.56	530.53	528.71	526.29	526.19	524.94	524.56	524.35	523.36	523.18	517.18	515.07	513.91
1115	513.90	552.40	549.81	548.83	547.71	538.87	534.26	535.58	530.51	528.69	526.29	526.19	524.93	524.55	524.34	523.35	523.17	517.17	515.07	513.90

T (min)	Sítio São Benedito	NA (m)																		
		Estrada e Ponte das Primaveras	Alameda Vale do Sol	Constru- ções	Ponte da Estrada Rio Acima	Ponte a montante da Confluên- cia	Confluên- cia com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos - Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
1120	513.90	552.40	549.81	548.83	547.71	538.87	534.26	535.59	530.49	528.67	526.28	526.18	524.92	524.54	524.34	523.35	523.16	517.17	515.06	513.90
1125	513.89	552.40	549.81	548.83	547.71	538.87	534.25	535.60	530.47	528.65	526.27	526.18	524.91	524.53	524.32	523.34	523.15	517.16	515.05	513.89
1130	513.89	552.40	549.81	548.83	547.71	538.87	534.25	535.62	530.46	528.64	526.26	526.17	524.90	524.52	524.32	523.33	523.15	517.16	515.05	513.89
1135	513.89	552.40	549.81	548.83	547.71	538.87	534.25	535.63	530.45	528.63	526.25	526.16	524.89	524.51	524.31	523.32	523.14	517.15	515.04	513.89
1140	513.88	552.40	549.81	548.83	547.71	538.87	534.25	535.64	530.44	528.61	526.24	526.15	524.89	524.50	524.30	523.31	523.13	517.14	515.04	513.88
1145	513.88	552.40	549.81	548.83	547.71	538.87	534.25	535.66	530.44	528.60	526.23	526.14	524.88	524.49	524.29	523.31	523.12	517.14	515.03	513.88
1150	513.87	552.40	549.81	548.83	547.71	538.86	534.25	535.67	530.43	528.60	526.22	526.13	524.87	524.48	524.28	523.30	523.12	517.13	515.02	513.87
1155	513.87	552.40	549.81	548.83	547.71	538.86	534.25	535.68	530.43	528.59	526.21	526.12	524.86	524.47	524.27	523.29	523.11	517.12	515.02	513.87
1160	513.86	552.40	549.81	548.83	547.71	538.86	534.25	535.69	530.42	528.59	526.20	526.11	524.85	524.46	524.26	523.28	523.10	517.12	515.01	513.86
1165	513.86	552.40	549.81	548.83	547.71	538.86	534.25	535.70	530.42	528.58	526.19	526.10	524.84	524.45	524.25	523.28	523.09	517.11	515.00	513.86
1170	513.85	552.40	549.81	548.83	547.71	538.86	534.25	535.71	530.42	528.58	526.18	526.09	524.84	524.44	524.24	523.27	523.09	517.11	515.00	513.85
1175	513.85	552.40	549.81	548.83	547.71	538.86	534.25	535.73	530.42	528.58	526.17	526.08	524.83	524.43	524.23	523.26	523.08	517.10	514.99	513.85
1180	513.84	552.40	549.81	548.83	547.71	538.86	534.25	535.74	530.42	528.58	526.16	526.07	524.82	524.42	524.22	523.25	523.07	517.09	514.98	513.84
1185	513.83	552.40	549.81	548.83	547.71	538.86	534.25	535.75	530.42	528.58	526.15	526.06	524.81	524.41	524.21	523.25	523.06	517.09	514.98	513.83
1190	513.83	552.40	549.81	548.83	547.71	538.86	534.25	535.76	530.42	528.57	526.14	526.06	524.80	524.40	524.20	523.24	523.05	517.08	514.97	513.83
1195	513.82	552.40	549.81	548.83	547.71	538.86	534.25	535.77	530.42	528.57	526.14	526.05	524.79	524.39	524.19	523.23	523.05	517.08	514.97	513.82
1200	513.82	552.40	549.81	548.83	547.71	538.86	534.26	535.78	530.42	528.57	526.13	526.04	524.78	524.38	524.18	523.22	523.04	517.07	514.96	513.82
1205	513.81	552.40	549.81	548.83	547.71	538.86	534.26	535.79	530.42	528.57	526.12	526.04	524.78	524.37	524.18	523.22	523.03	517.06	514.95	513.81
1210	513.81	552.40	549.81	548.83	547.71	538.86	534.26	535.80	530.42	528.57	526.12	526.03	524.77	524.36	524.17	523.21	523.03	517.06	514.95	513.81
1215	513.80	552.40	549.81	548.83	547.71	538.86	534.26	535.80	530.42	528.57	526.11	526.03	524.76	524.36	524.16	523.20	523.02	517.05	514.94	513.80
1220	513.80	552.40	549.81	548.83	547.71	538.86	534.26	535.81	530.42	528.57	526.11	526.02	524.75	524.35	524.15	523.19	523.01	517.05	514.93	513.80
1225	513.79	552.40	549.81	548.83	547.71	538.86	534.26	535.82	530.42	528.57	526.10	526.02	524.74	524.34	524.14	523.19	523.00	517.04	514.93	513.79
1230	513.78	552.40	549.81	548.83	547.71	538.86	534.26	535.83	530.42	528.57	526.10	526.01	524.73	524.33	524.13	523.18	523.00	517.03	514.92	513.78
1235	513.78	552.40	549.81	548.83	547.71	538.86	534.26	535.84	530.42	528.58	526.10	526.01	524.72	524.32	524.12	523.17	522.99	517.03	514.92	513.78
1240	513.77	552.40	549.81	548.83	547.71	538.86	534.26	535.85	530.42	528.58	526.09	526.00	524.71	524.31	524.11	523.17	522.98	517.02	514.91	513.77

T (min)	Sítio São Benedito	NA (m)																		
		Estrada e Ponte das Primaveras	Alameda Vale do Sol	Constru- ções	Ponte da Estrada Rio Acima	Ponte a montante da Confluên- cia	Confluên- cia com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos - Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
1245	513.77	552.40	549.81	548.83	547.71	538.86	534.26	535.86	530.42	528.58	526.09	526.00	524.71	524.30	524.10	523.16	522.97	517.02	514.90	513.77
1250	513.76	552.40	549.81	548.83	547.71	538.86	534.26	535.87	530.42	528.58	526.09	526.00	524.70	524.29	524.09	523.15	522.97	517.01	514.90	513.76
1255	513.76	552.40	549.81	548.83	547.71	538.86	534.26	535.88	530.42	528.58	526.09	526.00	524.69	524.28	524.08	523.14	522.96	517.00	514.89	513.76
1260	513.75	552.40	549.81	548.83	547.71	538.86	534.26	535.88	530.42	528.58	526.08	525.99	524.68	524.27	524.08	523.14	522.95	517.00	514.88	513.75
1265	513.75	552.40	549.81	548.83	547.71	538.86	534.26	535.89	530.42	528.58	526.08	525.99	524.67	524.26	524.07	523.13	522.95	516.99	514.88	513.75
1270	513.74	552.40	549.81	548.83	547.71	538.86	534.26	535.90	530.42	528.58	526.08	525.99	524.66	524.25	524.06	523.12	522.94	516.99	514.87	513.74
1275	513.73	552.40	549.81	548.83	547.71	538.86	534.26	535.91	530.43	528.58	526.08	525.99	524.66	524.24	524.05	523.12	522.93	516.98	514.87	513.73
1280	513.73	552.40	549.81	548.83	547.71	538.86	534.27	535.92	530.43	528.58	526.08	525.98	524.65	524.23	524.04	523.11	522.93	516.98	514.86	513.73
1285	513.72	552.40	549.81	548.83	547.71	538.86	534.27	535.92	530.43	528.58	526.08	525.98	524.64	524.23	524.03	523.10	522.92	516.97	514.85	513.72
1290	513.72	552.40	549.81	548.83	547.71	538.86	534.27	535.93	530.43	528.58	526.08	525.98	524.63	524.22	524.02	523.09	522.91	516.97	514.85	513.72
1295	513.71	552.40	549.81	548.83	547.71	538.86	534.27	535.94	530.43	528.58	526.08	525.98	524.62	524.21	524.01	523.09	522.90	516.96	514.84	513.71
1300	513.71	552.40	549.81	548.83	547.71	538.86	534.27	535.95	530.43	528.59	526.07	525.98	524.62	524.20	524.00	523.08	522.90	516.96	514.83	513.71
1305	513.70	552.40	549.81	548.83	547.71	538.86	534.27	535.95	530.43	528.59	526.07	525.98	524.61	524.19	523.99	523.07	522.89	516.95	514.83	513.70
1310	513.70	552.40	549.81	548.83	547.71	538.86	534.27	535.96	530.43	528.59	526.07	525.98	524.60	524.18	523.98	523.07	522.88	516.94	514.82	513.70
1315	513.69	552.40	549.81	548.83	547.71	538.86	534.27	535.97	530.43	528.59	526.07	525.98	524.59	524.17	523.98	523.06	522.88	516.94	514.82	513.69
1320	513.69	552.40	549.81	548.83	547.71	538.86	534.27	535.98	530.43	528.59	526.07	525.98	524.59	524.16	523.97	523.05	522.87	516.93	514.81	513.69
1325	513.68	552.40	549.81	548.83	547.71	538.86	534.27	535.98	530.44	528.59	526.07	525.98	524.58	524.15	523.96	523.04	522.86	516.93	514.80	513.68
1330	513.68	552.40	549.81	548.83	547.71	538.86	534.27	535.99	530.44	528.59	526.07	525.98	524.57	524.14	523.95	523.04	522.86	516.92	514.80	513.68
1335	513.67	552.40	549.81	548.83	547.71	538.86	534.27	536.00	530.44	528.59	526.07	525.98	524.57	524.13	523.94	523.03	522.85	516.92	514.79	513.67
1340	513.67	552.40	549.81	548.83	547.71	538.86	534.27	536.00	530.44	528.59	526.07	525.98	524.56	524.12	523.93	523.02	522.84	516.91	514.79	513.67
1345	513.66	552.40	549.81	548.83	547.71	538.86	534.27	536.01	530.44	528.59	526.07	525.98	524.55	524.12	523.92	523.02	522.83	516.91	514.78	513.66
1350	513.66	552.40	549.81	548.83	547.71	538.86	534.27	536.02	530.44	528.60	526.07	525.98	524.55	524.11	523.91	523.01	522.83	516.90	514.77	513.66
1355	513.65	552.40	549.81	548.83	547.71	538.86	534.28	536.02	530.44	528.60	526.07	525.98	524.54	524.10	523.90	523.00	522.82	516.90	514.77	513.65
1360	513.65	552.40	549.81	548.83	547.71	538.86	534.28	536.03	530.44	528.60	526.07	525.98	524.53	524.09	523.90	523.00	522.81	516.89	514.76	513.65
1365	513.64	552.40	549.81	548.83	547.71	538.86	534.28	536.04	530.44	528.60	526.08	525.98	524.53	524.08	523.89	522.99	522.81	516.89	514.76	513.64

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Constru- ções	Ponte da Estrada Rio Acima	Ponte a montante da Confluên- cia	Confluên- cia com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos - Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
1370	513.64	552.40	549.81	548.83	547.71	538.86	534.28	536.04	530.45	528.60	526.08	525.98	524.52	524.07	523.88	522.98	522.80	516.88	514.75	513.64
1375	513.63	552.40	549.81	548.83	547.71	538.86	534.28	536.05	530.45	528.60	526.08	525.98	524.52	524.06	523.87	522.97	522.79	516.88	514.75	513.63
1380	513.63	552.40	549.81	548.83	547.71	538.86	534.28	536.06	530.45	528.60	526.08	525.98	524.51	524.06	523.86	522.97	522.79	516.87	514.74	513.63
1385	513.63	552.40	549.81	548.83	547.71	538.86	534.28	536.06	530.45	528.60	526.08	525.98	524.51	524.05	523.85	522.96	522.78	516.86	514.74	513.63
1390	513.62	552.40	549.81	548.83	547.71	538.86	534.28	536.07	530.45	528.60	526.08	525.98	524.50	524.04	523.85	522.95	522.77	516.86	514.73	513.62
1395	513.62	552.40	549.81	548.83	547.71	538.86	534.28	536.07	530.45	528.60	526.08	525.98	524.50	524.03	523.84	522.95	522.77	516.85	514.73	513.62
1400	513.61	552.40	549.81	548.83	547.71	538.86	534.28	536.08	530.45	528.61	526.08	525.98	524.49	524.02	523.83	522.94	522.76	516.85	514.72	513.61
1405	513.61	552.40	549.81	548.83	547.71	538.86	534.28	536.08	530.45	528.61	526.08	525.98	524.49	524.02	523.82	522.94	522.75	516.84	514.72	513.61
1410	513.60	552.40	549.81	548.83	547.71	538.86	534.28	536.09	530.45	528.61	526.08	525.98	524.48	524.01	523.81	522.93	522.75	516.84	514.71	513.60
1415	513.60	552.40	549.81	548.83	547.71	538.86	534.28	536.10	530.45	528.61	526.08	525.98	524.48	524.00	523.80	522.92	522.74	516.83	514.71	513.60
1420	513.60	552.40	549.81	548.83	547.71	538.86	534.28	536.10	530.46	528.61	526.08	525.98	524.48	523.99	523.80	522.92	522.73	516.83	514.70	513.60
1425	513.59	552.40	549.81	548.83	547.71	538.86	534.28	536.11	530.46	528.61	526.08	525.99	524.47	523.99	523.79	522.91	522.73	516.82	514.70	513.59
1430	513.59	552.40	549.81	548.83	547.71	538.86	534.29	536.11	530.46	528.61	526.08	525.99	524.47	523.98	523.78	522.90	522.72	516.81	514.69	513.59
1435	513.58	552.40	549.81	548.83	547.71	538.86	534.29	536.12	530.46	528.61	526.09	525.99	524.46	523.97	523.77	522.90	522.71	516.81	514.68	513.58
1440	513.58	552.40	549.81	548.83	547.71	538.86	534.29	536.12	530.46	528.61	526.09	525.99	524.46	523.96	523.77	522.89	522.71	516.80	514.68	513.58
1445	513.57	552.40	549.81	548.83	547.71	538.86	534.29	536.13	530.46	528.61	526.09	525.99	524.46	523.96	523.76	522.89	522.70	516.80	514.67	513.57
1450	513.57	552.40	549.81	548.83	547.71	538.86	534.29	536.13	530.46	528.62	526.09	525.99	524.45	523.95	523.75	522.88	522.70	516.79	514.67	513.57
1455	513.57	552.40	549.81	548.83	547.71	538.86	534.29	536.14	530.46	528.62	526.09	525.99	524.45	523.94	523.74	522.88	522.69	516.79	514.66	513.57
1460	513.56	552.40	549.81	548.83	547.71	538.86	534.29	536.14	530.46	528.62	526.09	525.99	524.45	523.93	523.74	522.87	522.68	516.78	514.66	513.56
1465	513.56	552.40	549.81	548.83	547.71	538.86	534.29	536.15	530.46	528.62	526.09	525.99	524.45	523.93	523.73	522.86	522.68	516.78	514.65	513.56
1470	513.55	552.40	549.81	548.83	547.71	538.86	534.29	536.15	530.46	528.62	526.09	525.99	524.44	523.92	523.72	522.86	522.67	516.77	514.65	513.55
1475	513.55	552.40	549.81	548.83	547.71	538.86	534.29	536.16	530.47	528.62	526.09	525.99	524.44	523.91	523.71	522.85	522.67	516.77	514.64	513.55
1480	513.54	552.40	549.81	548.83	547.71	538.86	534.29	536.16	530.47	528.62	526.09	525.99	524.44	523.91	523.71	522.85	522.66	516.76	514.64	513.54
1485	513.53	552.40	549.81	548.83	547.71	538.86	534.29	536.17	530.47	528.62	526.10	526.00	524.44	523.90	523.70	522.84	522.65	516.76	514.63	513.53
1490	513.53	552.40	549.81	548.83	547.71	538.86	534.29	536.17	530.47	528.62	526.10	526.00	524.43	523.90	523.69	522.83	522.65	516.75	514.63	513.53

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Constru- ções	Ponte da Estrada Rio Acima	Ponte a montante da Confluên- cia	Confluên- cia com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos - Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
1495	513.52	552.40	549.81	548.83	547.71	538.86	534.29	536.18	530.47	528.62	526.10	526.00	524.43	523.89	523.69	522.83	522.64	516.75	514.62	513.52
1500	513.52	552.40	549.81	548.83	547.71	538.86	534.29	536.18	530.47	528.62	526.10	526.00	524.43	523.88	523.68	522.82	522.64	516.74	514.62	513.52

T (min)	VAZÕES (m³/s)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
0	90.0	40.0	40.0	40.0	40.0	40.0	40.0	50.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
5	90.0	40.0	40.0	40.0	40.0	40.0	40.0	50.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
10	94.1	41.3	41.2	40.5	40.5	40.7	42.3	88.7	94.6	96.2	90.6	92.2	95.9	92.6	88.6	90.0	99.4	92.1	95.3	94.1
15	94.1	41.7	41.1	40.6	40.5	40.7	38.5	80.2	94.2	95.3	93.1	91.2	97.3	92.3	89.2	90.3	96.4	91.7	95.5	94.1
20	94.3	41.5	41.2	40.7	40.5	40.7	36.9	81.5	95.0	94.6	94.6	91.5	97.2	92.9	90.2	89.9	94.8	91.4	96.1	94.3
25	94.6	41.0	41.3	40.8	40.6	40.8	38.2	81.2	96.6	94.9	94.7	91.9	97.0	93.2	90.8	89.9	93.7	91.3	96.0	94.6
30	95.0	40.6	41.3	40.9	40.6	40.9	40.5	77.9	99.1	95.9	94.5	92.2	96.6	93.4	91.3	90.0	93.0	91.2	95.7	95.0
35	95.3	40.3	41.1	41.0	40.6	41.0	42.1	73.7	102.9	97.8	94.8	92.4	96.1	93.6	91.6	90.1	92.6	91.2	95.2	95.3
40	95.4	40.1	40.9	41.0	40.7	41.0	42.6	70.2	107.7	101.0	95.7	92.7	95.5	93.7	91.8	90.3	92.4	91.3	94.8	95.4
45	95.4	40.0	40.6	41.0	40.7	41.1	42.5	67.2	112.4	105.7	97.5	93.2	95.0	93.8	92.1	90.5	92.2	91.5	94.4	95.4
50	95.2	40.0	40.4	41.0	40.8	41.1	42.2	64.6	115.7	110.4	100.4	94.0	94.6	93.9	92.3	90.7	92.1	91.8	94.1	95.2
55	95.0	40.0	40.3	40.9	40.8	41.0	41.9	62.1	116.9	114.3	104.3	95.2	94.2	94.0	92.4	90.9	92.0	92.1	93.8	95.0
60	94.8	40.0	40.2	40.8	40.9	41.0	41.8	59.6	116.3	116.1	108.4	96.8	93.8	94.1	92.6	91.0	92.0	92.4	93.5	94.8
65	94.5	40.1	40.2	40.7	40.9	40.9	41.7	57.1	114.5	116.2	111.6	98.8	93.6	94.1	92.7	91.2	92.0	92.6	93.2	94.5
70	94.2	40.2	40.2	40.6	40.9	40.9	41.8	54.2	111.9	114.9	113.5	100.9	93.3	94.1	92.8	91.4	92.0	92.9	93.0	94.2
75	93.9	40.4	40.2	40.5	40.9	40.9	42.3	50.1	109.0	112.7	113.9	102.7	93.2	94.0	92.9	91.6	92.0	93.1	92.8	93.9
80	93.7	40.6	40.2	40.5	40.8	40.8	44.3	41.3	106.0	110.0	113.1	104.1	93.1	94.0	93.0	91.7	92.1	93.3	92.7	93.7
85	93.4	41.0	40.3	40.4	40.8	40.8	42.7	34.5	102.9	107.3	111.4	105.0	93.0	94.0	93.1	91.9	92.1	93.6	92.6	93.4
90	93.2	41.6	40.5	40.4	40.7	40.8	41.8	30.7	99.6	104.2	109.3	105.5	93.0	93.9	93.1	92.0	92.2	93.7	92.5	93.2
95	93.1	42.9	40.8	40.4	40.6	40.7	41.3	29.1	95.9	101.2	107.0	105.6	93.1	93.8	93.1	92.1	92.2	93.9	92.5	93.1
100	92.9	44.9	41.2	40.4	40.6	40.7	41.1	28.5	91.6	97.9	104.4	105.3	93.2	93.8	93.2	92.2	92.2	94.0	92.5	92.9
105	92.8	47.7	42.1	40.5	40.5	40.7	41.0	28.4	87.2	94.2	101.6	104.6	93.4	93.7	93.2	92.3	92.3	94.2	92.5	92.8
110	92.7	51.3	43.5	40.7	40.5	40.7	40.9	28.4	83.1	90.1	98.7	103.7	93.7	93.6	93.2	92.4	94.3	92.5	92.7	

VAZÕES (m³/s)																				
T (min)	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluênci a	Confluênci a com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/R ua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
115	92.7	55.8	45.6	41.0	40.5	40.7	40.9	28.5	79.6	86.0	95.3	102.5	94.1	93.6	93.2	92.5	92.4	94.4	92.6	92.7
120	92.6	61.0	48.4	41.5	40.5	40.7	40.9	28.7	76.6	82.2	91.8	101.0	94.6	93.5	93.2	92.6	92.5	94.4	92.7	92.6
125	92.6	67.3	51.5	42.4	40.6	40.7	40.8	28.9	74.2	78.9	88.3	99.2	95.1	93.5	93.2	92.7	92.5	94.5	92.8	92.6
130	92.6	74.9	55.7	43.7	40.8	40.7	40.8	29.1	72.4	76.1	84.9	97.2	95.6	93.4	93.2	92.7	92.6	94.5	92.9	92.6
135	92.7	84.8	61.6	45.5	41.1	40.7	40.8	29.2	71.1	73.9	81.8	95.2	96.2	93.4	93.2	92.8	92.6	94.6	93.0	92.7
140	92.7	96.1	68.8	48.0	41.7	40.7	40.8	29.4	70.1	72.2	79.1	93.1	96.7	93.4	93.2	92.8	92.7	94.6	93.1	92.7
145	92.8	106.9	77.6	51.3	42.5	40.7	40.8	29.6	69.5	70.9	76.8	91.1	97.2	93.4	93.2	92.8	92.7	94.6	93.2	92.8
150	92.9	117.9	87.2	55.8	43.6	40.7	40.8	29.8	69.0	70.0	75.1	89.2	97.6	93.5	93.2	92.9	92.7	94.6	93.3	92.9
155	93.0	130.1	97.8	61.5	45.2	40.7	40.7	29.9	68.8	69.4	73.6	87.3	98.0	93.6	93.2	92.9	92.7	94.5	93.4	93.0
160	93.1	143.0	109.6	68.8	47.6	40.7	40.7	30.1	68.7	69.0	72.5	85.6	98.2	93.7	93.3	92.9	92.8	94.5	93.6	93.1
165	93.2	155.9	121.7	77.8	50.8	40.7	40.7	30.2	68.6	68.8	71.7	84.1	98.4	93.8	93.3	93.0	92.8	94.5	93.7	93.2
170	93.3	168.3	134.2	88.5	55.1	40.7	40.7	30.4	68.7	68.7	71.1	82.7	98.4	93.9	93.4	93.0	92.8	94.4	93.8	93.3
175	93.4	180.8	147.6	100.4	60.6	40.7	40.7	30.6	68.8	68.7	70.7	81.4	98.4	94.1	93.5	93.0	92.9	94.4	93.8	93.4
180	93.5	194.1	160.4	113.5	67.6	40.7	40.7	30.8	68.9	68.7	70.4	80.2	98.2	94.2	93.6	93.1	92.9	94.3	93.9	93.5
185	93.6	207.6	173.4	127.6	76.9	40.7	40.7	30.9	69.0	68.8	70.2	79.2	97.9	94.4	93.7	93.1	92.9	94.2	94.0	93.6
190	93.7	221.6	187.3	141.7	88.3	40.7	40.6	31.1	69.2	68.9	70.0	78.3	97.6	94.5	93.8	93.2	93.0	94.2	94.1	93.7
195	93.8	235.5	201.4	156.5	101.1	40.7	40.6	31.3	69.3	69.1	70.0	77.5	97.1	94.7	93.9	93.2	93.0	94.1	94.1	93.8
200	93.8	249.2	215.2	172.2	115.6	40.7	40.6	31.4	69.5	69.2	70.0	76.8	96.5	94.8	94.0	93.3	93.0	94.0	94.2	93.8
205	93.9	262.2	229.1	187.5	131.8	40.7	40.6	31.6	69.7	69.4	70.0	76.1	95.9	95.0	94.1	93.4	93.1	94.0	94.2	93.9
210	94.0	274.6	243.3	202.6	148.0	40.8	40.6	31.8	69.8	69.5	70.0	75.6	95.2	95.1	94.2	93.4	93.1	93.9	94.2	94.0
215	94.0	286.3	256.6	217.9	164.0	40.9	40.6	32.0	70.0	69.7	70.1	75.1	94.5	95.2	94.4	93.5	93.2	93.8	94.2	94.0
220	94.1	297.6	269.0	232.9	180.7	41.0	40.6	32.1	70.2	69.9	70.2	74.7	93.8	95.2	94.5	93.6	93.3	93.7	94.2	94.1
225	94.1	308.3	281.0	247.1	196.8	41.2	40.6	32.3	70.4	70.1	70.3	74.3	93.0	95.3	94.5	93.7	93.3	93.7	94.2	94.1
230	94.2	318.5	292.7	260.6	212.6	41.6	40.6	32.5	70.5	70.2	70.4	74.0	92.2	95.3	94.6	93.8	93.4	93.6	94.2	94.2
235	94.2	327.7	304.0	273.5	227.3	42.1	40.6	32.6	70.7	70.4	70.5	73.7	91.4	95.2	94.7	93.8	93.5	93.6	94.2	94.2

VAZÕES (m³/s)																				
T (min)	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construçõe s	Ponte da Estrada Rio Acima	Ponte a montante da Confluênci a	Confluênci a com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/R ua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
240	94.2	336.0	314.3	285.8	242.1	43.0	40.7	32.8	70.9	70.6	70.6	73.4	90.7	95.2	94.7	93.9	93.5	93.5	94.2	94.2
245	94.2	343.7	323.6	297.6	256.1	44.2	40.7	33.0	71.1	70.8	70.7	73.2	89.9	95.1	94.7	94.0	93.6	93.4	94.1	94.2
250	94.2	350.9	332.1	308.4	269.6	46.2	40.7	33.1	71.3	71.0	70.9	73.1	89.1	95.0	94.7	94.1	93.6	93.4	94.1	94.2
255	94.2	368.5	340.5	318.4	282.1	49.2	40.7	33.3	71.5	71.2	71.0	72.9	88.4	94.9	94.7	94.1	93.7	93.3	94.1	94.2
260	94.2	436.3	357.7	328.0	293.4	53.9	40.7	33.5	71.7	71.3	71.2	72.8	87.6	94.7	94.6	94.2	93.8	93.3	94.0	94.2
265	94.1	513.0	405.8	343.1	304.5	61.1	40.8	33.7	71.9	71.5	71.3	72.7	86.9	94.5	94.6	94.2	93.9	93.3	94.0	94.1
270	94.1	565.9	466.0	375.6	317.7	71.2	40.8	33.9	72.0	71.7	71.5	72.6	86.2	94.3	94.5	94.3	93.9	93.2	93.9	94.1
275	94.1	597.6	517.4	422.3	339.5	84.5	41.0	34.1	72.2	71.9	71.6	72.6	85.5	94.0	94.4	94.3	93.9	93.2	93.9	94.1
280	94.0	618.6	554.3	470.3	372.5	102.2	41.2	34.5	72.4	72.1	71.8	72.5	84.8	93.8	94.3	94.3	94.0	93.2	93.8	94.0
285	94.0	636.2	582.5	512.3	411.6	121.2	41.5	34.9	72.7	72.3	71.9	72.5	84.1	93.5	94.1	94.3	94.0	93.1	93.8	94.0
290	94.0	652.8	606.1	547.6	452.8	142.7	42.0	35.4	72.9	72.5	72.1	72.5	83.5	93.2	94.0	94.3	94.1	93.1	93.7	94.0
295	93.9	670.1	627.1	576.9	491.1	164.7	42.9	36.3	73.1	72.7	72.3	72.5	82.9	92.9	93.8	94.3	94.1	93.1	93.7	93.9
300	93.9	698.3	648.3	602.4	525.1	185.8	43.1	39.8	73.5	73.0	72.5	72.6	82.3	92.6	93.6	94.2	94.1	93.1	93.7	93.9
305	93.8	730.3	676.5	627.4	555.5	205.8	30.2	97.7	73.9	73.3	72.6	72.6	81.8	92.2	93.4	94.2	94.1	93.1	93.6	93.8
310	93.8	741.0	704.7	655.2	584.7	225.9	25.5	167.0	74.4	73.6	72.9	72.6	81.2	91.9	93.2	94.1	94.1	93.1	93.6	93.8
315	93.7	723.8	716.8	681.6	613.6	247.5	61.5	153.1	75.9	74.1	73.1	72.7	80.7	91.6	93.0	94.0	94.0	93.0	93.5	93.7
320	93.7	696.9	710.7	697.2	641.5	270.2	83.5	132.1	83.6	75.2	73.4	72.8	80.2	91.2	92.7	93.9	94.0	93.0	93.5	93.7
325	93.6	667.6	694.7	699.4	662.1	296.5	101.6	118.9	108.0	80.3	73.9	73.0	79.8	90.9	92.5	93.8	94.0	93.0	93.4	93.6
330	93.6	638.7	674.0	691.6	673.2	325.9	123.6	109.1	143.5	97.1	75.3	73.1	79.3	90.5	92.3	93.7	93.9	93.0	93.4	93.6
335	93.6	611.6	651.1	677.3	674.3	356.8	148.6	101.1	172.1	131.7	80.9	73.7	78.9	90.1	92.0	93.6	93.8	93.0	93.4	93.6
340	93.5	585.9	627.6	659.1	668.3	390.7	176.0	94.3	193.4	162.4	97.3	75.4	78.5	89.8	91.7	93.4	93.8	93.1	93.3	93.5
345	93.5	561.6	604.1	639.0	657.5	424.9	205.4	88.5	210.1	188.6	126.1	80.2	78.1	89.4	91.4	93.3	93.7	93.1	93.3	93.5
350	93.4	539.2	581.4	617.8	643.4	458.5	237.2	83.4	225.6	207.6	155.7	89.0	77.8	89.0	91.2	93.1	93.6	93.1	93.3	93.4
355	93.4	517.6	559.7	596.5	627.3	492.2	271.8	79.5	242.5	224.2	180.6	100.7	77.5	88.7	90.9	92.9	93.5	93.1	93.3	93.4
360	93.4	497.1	538.5	575.7	609.9	522.2	308.6	76.1	262.6	241.6	200.8	114.3	77.2	88.3	90.6	92.7	93.3	93.1	93.2	93.4

VAZÕES (m <sup>3</sup> /s)																				
T (min)	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construçõe s	Ponte da Estrada Rio Acima	Ponte a montante da Confluênci a	Confluênci a com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/R ua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
365	93.3	477.9	518.0	555.3	592.0	547.9	347.6	72.6	286.5	263.3	218.9	129.8	76.9	88.0	90.3	92.5	93.2	93.1	93.2	93.3
370	93.3	459.4	498.4	535.5	574.0	570.1	386.9	68.6	313.1	288.5	238.7	145.5	76.6	87.6	90.0	92.3	93.1	93.2	93.2	93.3
375	93.3	441.5	479.7	516.3	555.9	587.2	426.6	64.2	342.7	315.9	261.9	162.7	76.5	87.3	89.7	92.1	92.9	93.2	93.2	93.3
380	93.3	424.6	461.6	497.6	538.7	599.4	463.3	59.7	376.0	346.5	288.0	181.9	76.4	86.9	89.4	91.9	92.7	93.2	93.2	93.3
385	93.2	408.4	444.2	479.4	521.9	607.0	495.9	55.1	411.4	382.0	317.1	204.9	76.5	86.6	89.1	91.6	92.6	93.2	93.2	93.2
390	93.2	392.8	427.4	462.0	505.0	610.5	524.3	50.7	446.2	418.5	350.1	230.3	76.9	86.2	88.8	91.4	92.4	93.3	93.1	93.2
395	93.2	378.1	411.3	445.3	488.1	610.5	548.6	46.0	479.8	453.4	385.6	258.4	77.7	85.9	88.5	91.1	92.2	93.3	93.1	93.2
400	93.2	364.4	396.2	429.3	471.6	607.4	567.4	41.6	511.6	487.1	421.0	290.9	79.0	85.6	88.2	90.9	92.0	93.3	93.1	93.2
405	93.2	351.3	381.9	414.2	455.7	601.7	581.0	38.0	539.5	518.7	455.4	325.0	81.0	85.3	87.9	90.6	91.8	93.3	93.1	93.2
410	93.2	338.6	368.2	399.5	440.3	594.0	590.1	35.7	562.8	546.4	487.8	359.1	84.0	85.0	87.6	90.4	91.6	93.4	93.1	93.2
415	93.2	326.5	354.9	385.2	425.5	584.6	595.1	34.8	581.9	568.8	517.1	394.2	88.5	84.7	87.3	90.1	91.4	93.4	93.1	93.2
420	93.2	314.9	342.2	371.5	411.7	573.9	596.5	35.3	597.0	586.6	541.9	429.7	95.0	84.5	87.0	89.9	91.2	93.4	93.2	93.2
425	93.2	304.0	330.2	358.5	398.0	562.2	595.0	37.0	608.3	600.4	562.7	463.2	103.8	84.3	86.8	89.6	90.9	93.4	93.2	93.2
430	93.2	293.5	318.8	346.3	384.7	549.8	590.9	39.5	616.4	610.7	579.5	492.7	116.5	84.3	86.6	89.3	90.7	93.5	93.2	93.2
435	93.2	283.4	307.9	334.8	371.8	537.0	584.8	42.3	621.6	617.8	592.6	517.7	133.0	84.3	86.4	89.1	90.5	93.5	93.2	93.2
440	93.2	273.6	297.4	323.6	359.6	523.8	577.0	45.4	624.5	622.4	602.3	539.3	154.4	84.6	86.2	88.8	90.2	93.5	93.2	93.2
445	93.2	264.3	287.2	312.8	347.7	510.5	568.0	48.4	625.4	624.7	609.4	556.8	180.6	85.1	86.2	88.6	90.0	93.5	93.2	93.2
450	93.2	255.4	277.5	302.3	336.1	497.1	557.9	51.3	624.3	624.8	613.9	570.3	211.2	85.9	86.2	88.3	89.8	93.5	93.2	93.2
455	93.2	246.8	268.2	292.2	325.7	483.4	547.0	53.9	621.5	623.2	616.2	580.5	244.9	87.1	86.5	88.1	89.6	93.5	93.3	93.2
460	93.2	238.6	259.4	282.6	315.4	470.0	535.5	56.2	617.3	620.0	616.4	588.0	277.1	89.1	86.9	88.0	89.3	93.5	93.3	93.2
465	93.2	230.7	250.8	273.3	305.3	456.8	523.7	58.1	611.7	615.3	614.8	592.7	311.7	91.8	87.6	87.8	89.1	93.5	93.3	93.2
470	93.2	223.1	242.5	264.6	295.5	443.9	511.9	59.6	604.9	609.4	611.7	595.5	345.2	95.6	88.7	87.7	89.0	93.5	93.3	93.2
475	93.3	215.9	234.6	256.3	286.0	431.3	499.9	60.8	597.1	602.4	607.2	596.6	374.4	100.6	90.4	87.8	88.8	93.5	93.3	93.3
480	93.3	209.2	227.0	248.2	276.9	418.9	487.9	61.6	588.5	594.3	601.5	596.0	402.6	107.0	92.7	87.9	88.7	93.5	93.4	93.3
485	93.3	202.7	219.9	240.3	268.1	406.8	475.8	62.1	579.2	585.5	594.7	593.9	427.9	115.0	95.8	88.2	88.7	93.5	93.4	93.3

VAZÕES (m³/s)																				
T (min)	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
490	93.3	196.4	213.1	232.8	259.5	395.1	463.7	62.3	569.5	576.1	587.1	590.4	449.0	124.7	99.8	88.8	88.7	93.5	93.4	93.3
495	93.3	190.4	206.5	225.5	251.7	383.5	451.6	62.3	559.3	566.2	578.7	585.7	466.6	136.6	105.0	89.6	88.9	93.4	93.4	93.3
500	93.3	184.8	200.2	218.6	244.2	372.4	439.8	62.2	548.6	555.9	569.7	579.9	481.6	149.9	111.3	90.8	89.3	93.4	93.4	93.3
505	93.4	179.4	194.2	211.9	236.9	361.5	428.2	61.8	537.6	545.1	560.2	573.3	493.4	165.2	119.0	92.4	89.8	93.3	93.4	93.4
510	93.4	174.2	188.5	205.6	229.7	351.0	416.8	61.3	526.4	534.1	550.2	565.9	503.1	181.9	128.1	94.6	90.7	93.3	93.4	93.4
515	93.4	169.3	183.1	199.6	222.8	340.9	405.6	61.0	514.9	522.9	539.7	557.8	510.5	198.9	138.5	97.5	91.9	93.2	93.4	93.4
520	93.4	164.4	177.8	193.9	216.3	331.2	394.9	60.5	503.4	511.6	529.2	549.3	516.0	216.5	150.2	101.1	93.4	93.2	93.4	93.4
525	93.4	159.7	172.7	188.5	210.0	321.7	384.5	60.0	491.9	500.4	518.5	540.3	519.9	234.2	163.0	105.5	95.5	93.1	93.4	93.4
530	93.4	155.2	167.8	183.3	203.9	312.5	374.3	59.3	480.7	489.1	507.7	531.0	522.4	252.0	176.6	110.9	98.1	93.0	93.4	93.4
535	93.4	150.9	163.0	178.2	198.0	303.6	364.5	58.6	469.7	478.0	496.9	521.4	523.4	268.2	190.6	117.4	101.4	92.9	93.4	93.4
540	93.4	146.7	158.5	173.2	192.5	294.9	354.8	57.9	459.0	467.3	486.1	511.7	523.3	283.2	204.6	124.9	105.5	92.8	93.4	93.4
545	93.4	142.5	154.1	168.4	187.5	286.5	345.3	57.1	448.3	456.8	475.6	501.9	521.9	297.4	218.6	133.4	110.3	92.8	93.4	93.4
550	93.4	138.6	149.9	163.8	182.5	278.4	336.1	56.4	437.9	446.2	465.1	492.1	519.6	310.5	232.1	143.0	116.0	92.7	93.4	93.4
555	93.4	134.8	145.8	159.3	177.6	270.5	327.1	55.7	427.7	435.9	454.8	482.3	516.5	322.5	245.0	153.1	122.6	92.5	93.4	93.4
560	93.4	131.2	141.8	155.0	172.8	262.7	318.5	55.0	417.5	425.6	444.6	472.6	512.5	332.6	257.4	164.1	130.0	92.4	93.3	93.4
565	93.4	127.5	138.0	150.8	168.1	255.4	310.0	54.4	407.5	415.6	434.4	462.9	507.8	342.0	269.1	175.7	138.4	92.3	93.3	93.4
570	93.4	123.9	134.2	146.8	163.6	248.3	301.9	53.8	397.7	405.6	424.4	453.2	502.6	350.2	280.2	187.7	147.9	92.2	93.3	93.4
575	93.4	120.5	130.6	142.9	159.2	241.6	293.9	53.2	388.2	395.9	414.6	443.5	496.8	357.8	290.4	199.8	158.0	92.1	93.2	93.4
580	93.3	117.3	127.0	139.2	154.9	235.1	286.4	52.7	378.9	386.4	404.9	433.9	490.6	363.8	299.1	211.8	168.9	92.0	93.2	93.3
585	93.3	114.0	123.6	135.7	150.8	228.9	279.0	52.3	370.0	377.5	395.4	424.7	484.2	368.5	307.2	223.5	179.8	91.9	93.1	93.3
590	93.3	110.9	120.3	132.3	146.9	222.9	271.8	51.9	361.3	368.6	386.4	415.7	477.5	372.3	314.5	234.6	190.5	91.8	93.0	93.3
595	93.2	107.8	117.0	129.0	143.0	217.1	264.7	51.6	352.9	360.1	377.5	406.8	470.6	375.5	321.0	245.6	201.5	91.7	93.0	93.2
600	93.2	104.8	113.8	125.7	139.5	211.5	258.0	51.3	344.8	351.9	368.9	398.1	463.6	377.8	326.9	256.3	212.3	91.7	92.9	93.2
605	93.1	101.9	110.8	122.4	136.1	206.2	251.5	51.0	337.2	344.0	360.7	389.6	456.4	380.0	332.0	265.8	223.0	91.6	92.8	93.1
610	93.1	99.0	107.9	119.2	132.8	201.0	245.3	50.7	329.9	336.7	352.7	381.2	449.2	381.0	336.5	274.5	233.7	91.6	92.8	93.1

VAZÕES (m³/s)																				
T (min)	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construçõe s	Ponte da Estrada Rio Acima	Ponte a montante da Confluênci a	Confluênci a com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/R ua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
615	93.0	96.2	104.9	116.1	129.5	196.0	239.2	50.4	322.6	329.4	345.1	373.1	441.9	382.3	340.8	282.8	243.6	91.7	92.7	93.0
620	92.9	93.5	102.1	113.1	126.3	191.2	233.3	50.2	315.5	322.1	337.7	365.2	434.6	382.7	344.1	290.5	252.7	91.8	92.6	92.9
625	92.9	90.9	99.3	110.1	123.1	186.6	227.6	50.0	308.5	315.0	330.4	357.5	427.3	383.4	347.0	297.3	260.9	92.0	92.5	92.9
630	92.8	88.4	96.6	107.2	120.0	182.0	222.2	49.8	301.8	308.1	323.2	349.9	420.1	383.4	349.4	304.0	268.7	92.3	92.4	92.8
635	92.7	86.0	94.0	104.4	116.9	177.7	216.9	49.7	295.4	301.5	316.2	342.7	413.0	382.6	352.0	310.3	276.4	92.7	92.4	92.7
640	92.6	83.8	91.5	101.7	113.9	173.6	211.8	49.5	289.1	295.0	309.4	335.6	405.9	381.6	354.1	316.1	284.1	93.4	92.3	92.6
645	92.6	81.7	89.1	99.1	111.0	169.5	206.8	49.5	283.2	288.8	302.9	328.8	399.0	380.3	355.8	321.1	291.4	94.2	92.2	92.6
650	92.5	79.6	86.8	96.7	108.1	165.5	202.0	49.4	277.5	282.9	296.6	322.1	392.2	378.9	357.2	325.3	297.8	95.3	92.2	92.5
655	92.4	77.5	84.6	94.3	105.4	161.7	197.3	49.4	271.9	277.2	290.5	315.6	385.4	377.3	358.1	328.9	303.7	96.8	92.2	92.4
660	92.4	75.5	82.5	92.1	102.8	158.0	192.7	49.5	266.5	271.7	284.6	309.2	378.9	375.5	358.7	332.2	308.9	98.6	92.2	92.4
665	92.3	73.5	80.3	89.9	100.2	154.3	188.3	49.5	261.4	266.4	278.9	303.2	372.5	373.5	359.1	334.9	313.7	101.0	92.2	92.3
670	92.3	71.5	78.3	87.7	97.7	150.8	184.0	49.6	256.5	261.3	273.5	297.3	366.3	371.4	359.3	337.5	318.0	104.0	92.3	92.3
675	92.3	69.6	76.2	85.6	95.5	147.3	179.8	49.6	251.8	256.4	268.2	291.6	360.2	369.2	359.1	339.8	321.9	107.9	92.5	92.3
680	92.3	67.6	74.3	83.4	93.4	144.0	175.8	49.7	247.2	251.7	263.2	286.1	354.2	366.9	358.8	341.8	325.6	112.4	92.8	92.3
685	92.4	65.7	72.4	81.4	91.3	140.7	172.0	49.7	242.9	247.3	258.4	280.8	348.3	364.5	358.3	343.7	328.9	117.6	93.2	92.4
690	92.5	63.9	70.5	79.4	89.3	137.7	168.3	49.7	238.6	243.1	253.8	275.6	342.5	362.1	357.6	345.3	331.7	123.6	93.7	92.5
695	92.7	62.1	68.6	77.4	87.3	134.6	164.6	49.7	234.5	239.0	249.4	270.5	336.8	359.6	356.7	346.6	334.2	130.4	94.4	92.7
700	92.9	60.3	66.8	75.5	85.3	131.7	161.0	49.8	230.5	235.0	245.1	265.7	331.3	357.0	355.7	347.5	336.4	137.7	95.4	92.9
705	93.3	58.6	65.0	73.7	83.3	128.8	157.5	49.8	226.6	230.9	240.9	261.0	326.0	354.4	354.4	348.2	338.2	145.8	96.7	93.3
710	93.9	57.0	63.2	71.9	81.4	126.0	154.2	49.8	222.7	227.0	236.8	256.4	320.8	351.8	353.1	348.8	339.9	154.4	98.3	93.9
715	94.7	55.5	61.6	70.1	79.5	123.3	151.0	49.8	219.0	223.2	232.7	251.9	315.8	349.1	351.6	349.1	341.7	163.3	100.3	94.7
720	95.7	54.0	59.9	68.3	77.6	120.6	147.9	49.8	215.4	219.4	228.8	247.6	310.9	346.4	350.1	349.3	343.1	172.4	102.8	95.7
725	97.0	52.6	58.4	66.6	75.7	118.0	144.8	49.9	211.9	215.8	225.0	243.8	306.1	343.6	348.4	349.3	344.2	181.7	105.7	97.0
730	98.6	51.4	56.9	65.0	73.9	115.4	141.8	49.9	208.5	212.3	221.4	240.0	301.4	340.9	346.7	349.2	344.9	191.1	109.1	98.6
735	100.6	50.2	55.5	63.4	72.1	112.9	138.8	50.0	205.2	208.9	217.8	236.2	296.9	338.1	344.9	348.8	345.4	200.4	113.1	100.6

VAZÕES (m <sup>3</sup> /s)																				
T (min)	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construçõe s	Ponte da Estrada Rio Acima	Ponte a montante da Confluênci a	Confluênci a com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/R ua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
740	103.0	49.1	54.1	61.9	70.4	110.5	135.9	50.0	202.1	205.6	214.3	232.5	292.6	335.4	343.0	348.2	345.7	209.3	117.7	103.0
745	105.8	48.0	52.8	60.5	68.7	108.1	133.1	50.0	199.0	202.4	210.9	228.9	288.3	332.6	341.2	347.6	345.7	218.2	123.0	105.8
750	109.7	47.1	51.5	59.1	67.1	105.8	130.4	50.1	195.9	199.3	207.6	225.3	284.2	329.9	339.2	346.7	345.6	226.9	128.8	109.7
755	114.0	46.3	50.4	57.7	65.4	103.5	127.8	50.1	192.9	196.3	204.4	221.8	280.2	327.2	337.3	345.8	345.3	235.2	134.9	114.0
760	118.8	45.6	49.3	56.3	63.9	101.3	125.2	50.1	190.0	193.3	201.3	218.4	276.3	324.4	335.3	344.7	344.8	243.1	141.2	118.8
765	124.1	44.9	48.4	55.0	62.4	99.2	122.7	50.1	187.2	190.4	198.2	215.1	272.5	321.8	333.3	343.5	344.2	250.6	148.1	124.1
770	129.9	44.3	47.6	53.8	61.1	97.1	120.3	50.1	184.5	187.6	195.3	212.0	268.8	319.1	331.2	342.1	343.4	257.7	155.4	129.9
775	136.1	43.7	46.8	52.7	59.8	95.1	117.9	50.1	181.9	184.9	192.4	208.8	265.1	316.5	329.1	340.7	342.5	264.4	164.0	136.1
780	142.9	43.3	46.1	51.6	58.5	93.2	115.5	50.1	179.4	182.2	189.6	205.9	261.6	313.9	326.9	339.2	341.5	270.7	173.6	142.9
785	150.4	42.8	45.3	50.6	57.4	91.4	113.3	50.0	177.0	179.7	186.9	203.0	258.1	311.3	324.7	337.7	340.3	276.7	182.4	150.4
790	158.8	42.4	44.7	49.6	56.2	89.5	111.0	50.1	174.5	177.3	184.3	200.1	254.7	308.8	322.5	336.1	339.1	282.2	190.4	158.8
795	167.4	42.1	44.1	48.7	55.1	87.8	108.8	50.1	172.1	174.9	181.8	197.3	251.5	306.2	320.3	334.3	337.7	287.3	198.7	167.4
800	176.0	41.8	43.6	47.9	54.0	86.0	106.6	50.1	169.7	172.5	179.3	194.5	248.2	303.6	318.0	332.6	336.3	292.1	206.2	176.0
805	185.3	41.5	43.2	47.1	52.9	84.3	104.5	50.1	167.4	170.1	176.9	191.9	245.1	301.0	315.8	330.8	334.8	296.5	214.2	185.3
810	194.0	41.3	42.8	46.4	51.9	82.6	102.5	50.1	165.2	167.8	174.5	189.2	241.9	298.4	313.5	328.9	333.2	300.6	222.5	194.0
815	202.6	41.1	42.5	45.7	51.0	81.0	100.6	50.1	162.9	165.6	172.1	186.6	238.9	295.9	311.2	327.0	331.6	304.3	230.8	202.6
820	210.8	41.0	42.2	45.1	50.0	79.4	98.7	50.1	160.7	163.4	169.7	184.1	236.0	293.7	308.9	325.1	329.9	307.6	237.5	210.8
825	218.8	40.8	41.9	44.6	49.2	77.8	96.9	50.1	158.6	161.3	167.5	181.6	233.2	291.3	306.5	323.0	328.1	310.7	245.4	218.8
830	226.0	40.7	41.6	44.1	48.4	76.3	95.2	50.0	156.6	159.2	165.3	179.1	230.4	288.9	304.3	320.8	326.2	313.4	252.0	226.0
835	233.0	40.6	41.4	43.6	47.6	74.8	93.4	50.0	154.5	157.2	163.2	176.8	227.7	286.6	301.9	318.7	324.3	315.8	257.9	233.0
840	239.5	40.5	41.2	43.2	46.9	73.3	91.7	50.0	152.6	155.2	161.1	174.4	225.0	284.2	299.7	316.6	322.3	318.0	263.8	239.5
845	245.8	40.4	41.1	42.9	46.2	71.8	90.1	50.0	150.6	153.2	159.0	172.2	222.3	281.8	297.4	314.2	320.3	319.9	269.5	245.8
850	251.6	40.4	40.9	42.5	45.6	70.4	88.4	50.0	148.8	151.3	157.0	170.0	219.7	279.5	295.2	312.0	318.4	321.5	275.2	251.6
855	257.3	40.3	40.8	42.2	45.1	68.9	86.8	50.0	147.0	149.4	155.1	167.8	217.1	277.4	292.8	309.8	316.4	323.0	280.0	257.3
860	263.0	40.2	40.7	42.0	44.6	67.6	85.2	49.9	145.2	147.6	153.1	165.7	214.6	275.1	290.5	307.4	314.2	324.2	284.7	263.0

VAZÕES (m <sup>3</sup> /s)																				
T (min)	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construçõe s	Ponte da Estrada Rio Acima	Ponte a montante da Confluênci a	Confluênci a com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/R ua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
865	268.2	40.2	40.6	41.7	44.1	66.2	83.7	49.9	143.5	145.8	151.2	163.6	212.0	272.8	288.2	305.0	312.1	325.2	289.2	268.2
870	273.2	40.2	40.5	41.5	43.7	65.0	82.2	49.9	141.8	144.1	149.4	161.6	209.6	270.4	285.9	302.7	309.9	325.9	292.9	273.2
875	278.2	40.1	40.4	41.4	43.3	63.7	80.6	49.9	140.1	142.4	147.5	159.5	207.2	268.1	283.4	300.5	307.7	326.5	296.4	278.2
880	282.8	40.1	40.4	41.2	42.9	62.6	79.2	49.9	138.5	140.7	145.8	157.6	204.8	265.8	281.1	298.2	305.5	326.9	299.5	282.8
885	286.8	40.1	40.3	41.1	42.6	61.4	77.8	49.8	136.8	139.0	144.1	155.7	202.4	263.5	278.8	295.9	303.3	327.2	302.4	286.8
890	290.6	40.1	40.3	40.9	42.3	60.3	76.4	49.8	135.3	137.4	142.3	153.9	200.1	261.3	276.5	293.6	301.1	327.3	305.0	290.6
895	294.1	40.1	40.2	40.8	42.1	59.3	75.0	49.9	133.7	135.8	140.7	152.0	197.8	259.1	274.1	291.4	298.9	327.2	307.3	294.1
900	297.2	40.1	40.2	40.7	41.9	58.3	73.6	49.9	132.2	134.2	139.0	150.2	195.6	256.8	271.8	289.1	296.7	327.0	310.5	297.2
905	300.0	40.1	40.2	40.6	41.7	57.3	72.2	49.9	130.7	132.7	137.4	148.5	193.3	254.5	269.6	286.8	294.5	326.6	312.6	300.0
910	302.8	40.0	40.2	40.5	41.5	56.4	70.9	49.9	129.2	131.2	135.9	146.8	191.2	252.3	267.3	284.6	292.3	326.1	314.3	302.8
915	305.3	40.0	40.1	40.5	41.3	55.5	69.7	49.9	127.9	129.8	134.3	145.1	189.0	250.1	265.1	282.3	290.0	325.5	315.7	305.3
920	307.6	40.0	40.1	40.4	41.2	54.6	68.4	49.9	126.5	128.4	132.8	143.4	186.9	247.9	262.9	280.1	287.8	324.8	316.9	307.6
925	309.7	40.0	40.1	40.4	41.0	53.7	67.2	49.9	125.1	127.0	131.4	142.0	184.8	245.7	260.7	277.8	285.6	324.0	317.9	309.7
930	311.5	40.0	40.1	40.3	40.9	52.9	66.0	49.9	123.8	125.6	130.0	140.4	182.7	243.5	258.5	275.6	283.4	323.1	318.7	311.5
935	313.1	40.0	40.1	40.3	40.8	52.1	64.9	49.9	122.5	124.3	128.6	138.8	180.7	241.4	256.4	273.3	281.1	322.0	320.0	313.1
940	314.5	40.0	40.1	40.2	40.7	51.3	63.8	49.9	121.2	123.0	127.2	137.3	178.7	239.3	254.1	271.1	278.9	321.0	320.8	314.5
945	315.8	40.0	40.1	40.2	40.6	50.6	62.7	49.9	120.0	121.7	125.9	135.8	176.7	237.2	252.0	268.8	276.7	319.8	321.2	315.8
950	316.9	40.0	40.0	40.2	40.6	49.8	61.7	49.9	118.7	120.4	124.6	134.4	174.7	235.1	249.8	266.6	274.5	318.5	321.4	316.9
955	317.9	40.0	40.0	40.2	40.5	49.2	60.7	50.1	117.5	119.2	123.2	133.0	172.8	233.0	247.6	264.4	272.3	317.2	321.4	317.9
960	318.7	40.0	40.0	40.1	40.4	48.5	59.7	50.3	116.3	118.0	122.0	131.5	171.0	230.9	245.5	262.2	270.0	315.8	321.2	318.7
965	319.2	40.0	40.0	40.1	40.4	47.9	58.8	50.4	115.2	116.8	120.7	130.2	169.3	228.9	243.3	260.0	267.9	314.4	321.0	319.2
970	319.7	40.0	40.0	40.1	40.3	47.4	58.0	50.5	114.0	115.6	119.5	128.8	167.6	226.9	241.1	257.9	265.8	312.9	320.5	319.7
975	319.9	40.0	40.0	40.1	40.3	46.8	57.1	50.6	112.9	114.4	118.3	127.5	165.9	224.8	238.9	255.7	263.6	311.4	320.0	319.9
980	320.0	40.0	40.0	40.1	40.3	46.3	56.3	50.7	111.9	113.3	117.1	126.1	164.2	222.8	236.8	253.6	261.4	309.8	319.4	320.0
985	320.0	40.0	40.0	40.1	40.2	45.8	55.5	50.8	110.9	112.3	115.9	124.9	162.6	220.8	234.7	251.4	259.3	308.1	318.7	320.0

VAZÕES (m³/s)																				
T (min)	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construçõe s	Ponte da Estrada Rio Acima	Ponte a montante da Confluênci a	Confluênci a com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/R ua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
990	319.8	40.0	40.0	40.1	40.2	45.3	54.8	50.9	110.1	111.3	114.8	123.6	160.9	218.8	232.6	249.2	257.2	306.5	317.9	319.8
995	319.5	40.0	40.0	40.1	40.2	44.9	54.0	51.0	109.2	110.4	113.7	122.3	159.3	216.8	230.5	247.0	255.0	304.8	316.9	319.5
1000	319.0	40.0	40.0	40.0	40.2	44.5	53.3	51.0	108.4	109.6	112.7	121.1	157.7	214.9	228.4	244.8	252.9	303.0	315.9	319.0
1005	318.5	40.0	40.0	40.0	40.1	44.1	52.5	51.1	107.6	108.8	111.8	120.0	156.1	213.0	226.4	242.6	250.7	301.3	314.9	318.5
1010	317.8	40.0	40.0	40.0	40.1	43.7	51.8	51.1	106.8	108.0	110.9	118.8	154.6	211.1	224.4	240.5	248.5	299.5	313.7	317.8
1015	317.1	40.0	40.0	40.0	40.1	43.4	51.2	51.0	106.1	107.2	110.0	117.8	153.1	209.1	222.4	238.3	246.3	297.7	312.5	317.1
1020	316.2	40.0	40.0	40.0	40.1	43.1	50.5	51.0	105.3	106.4	109.2	116.7	151.7	207.3	220.4	236.3	244.2	295.8	311.2	316.2
1025	315.3	40.0	40.0	40.0	40.1	42.8	49.9	51.0	104.5	105.6	108.4	115.7	150.2	205.4	218.5	234.1	242.1	294.0	310.4	315.3
1030	314.3	40.0	40.0	40.0	40.1	42.6	49.3	50.9	103.8	104.9	107.6	114.7	148.8	203.5	216.6	232.1	239.9	292.2	309.3	314.3
1035	313.2	40.0	40.0	40.0	40.1	42.3	48.7	50.8	103.0	104.1	106.8	113.7	147.4	201.7	214.6	230.1	237.8	290.3	308.0	313.2
1040	312.1	40.0	40.0	40.0	40.1	42.1	48.1	50.6	102.3	103.4	106.0	112.8	146.0	199.9	212.7	228.2	235.8	288.4	306.6	312.1
1045	311.0	40.0	40.0	40.0	40.1	41.9	47.6	50.5	101.5	102.6	105.2	111.9	144.5	198.1	210.9	226.2	233.7	286.6	305.1	311.0
1050	309.8	40.0	40.0	40.0	40.0	41.7	47.1	50.2	100.7	101.8	104.5	111.0	143.1	196.2	209.1	224.3	231.7	284.7	303.6	309.8
1055	308.5	40.0	40.0	40.0	40.0	41.6	46.6	49.9	99.9	101.1	103.7	110.2	141.7	194.5	207.2	222.4	229.8	282.8	302.1	308.5
1060	307.2	40.0	40.0	40.0	40.0	41.4	46.2	49.5	99.1	100.3	102.9	109.3	140.4	192.7	205.4	220.4	227.9	280.9	300.5	307.2
1065	305.8	40.0	40.0	40.0	40.0	41.3	45.8	48.9	98.3	99.6	102.1	108.5	139.1	191.0	203.6	218.6	226.1	279.0	298.8	305.8
1070	304.4	40.0	40.0	40.0	40.0	41.2	45.5	48.1	97.5	98.8	101.4	107.6	137.8	189.3	201.9	216.8	224.3	277.1	297.1	304.4
1075	302.9	40.0	40.0	40.0	40.0	41.0	45.3	46.9	96.6	98.0	100.6	106.8	136.5	187.6	200.1	215.0	222.5	275.2	295.4	302.9
1080	301.3	40.0	40.0	40.0	40.0	40.9	45.3	44.6	95.7	97.1	99.8	106.0	135.2	186.0	198.5	213.2	220.7	273.2	294.3	301.3
1085	299.7	40.0	40.0	40.0	40.0	40.8	46.5	38.9	94.6	96.2	99.0	105.2	133.9	184.3	196.7	211.3	218.9	271.3	292.8	299.7
1090	298.2	40.0	40.0	40.0	40.0	40.8	44.9	34.6	93.4	95.3	98.2	104.3	132.6	182.7	195.1	209.6	217.2	269.5	291.2	298.2
1095	296.6	40.0	40.0	40.0	40.0	40.7	44.0	32.0	91.9	94.2	97.3	103.5	131.4	181.1	193.4	207.8	215.4	267.6	289.6	296.6
1100	295.0	40.0	40.0	40.0	40.0	40.6	43.4	30.4	89.8	92.8	96.3	102.7	130.2	179.5	191.7	206.0	213.6	265.6	288.0	295.0
1105	293.4	40.0	40.0	40.0	40.0	40.6	43.0	29.7	87.1	91.0	95.2	101.8	129.1	177.9	190.0	204.3	211.9	263.7	286.2	293.4
1110	291.7	40.0	40.0	40.0	40.0	40.5	42.7	29.3	84.2	88.7	93.9	100.9	127.9	176.4	188.3	202.5	210.1	261.8	284.5	291.7

VAZÕES (m <sup>3</sup> /s)																				
T (min)	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construçõe s	Ponte da Estrada Rio Acima	Ponte a montante da Confluênci a	Confluênci a com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/R ua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
1115	290.0	40.0	40.0	40.0	40.5	42.4	29.2	81.5	86.1	92.2	99.9	126.6	174.8	186.7	200.8	208.3	259.9	282.7	290.0	
1120	288.3	40.0	40.0	40.0	40.4	42.2	29.1	79.0	83.4	90.2	98.7	125.6	173.3	185.1	199.1	206.6	258.0	280.9	288.3	
1125	286.6	40.0	40.0	40.0	40.4	42.0	29.1	76.9	80.8	87.9	97.4	124.5	171.8	183.5	197.3	204.8	256.2	279.0	286.6	
1130	284.9	40.0	40.0	40.0	40.3	41.8	29.1	75.1	78.5	85.5	96.0	123.4	170.3	181.9	195.7	203.1	254.3	277.2	284.9	
1135	283.1	40.0	40.0	40.0	40.3	41.6	29.2	73.6	76.5	83.1	94.4	122.5	168.8	180.3	194.0	201.4	252.4	275.4	283.1	
1140	281.3	40.0	40.0	40.0	40.3	41.5	29.2	72.5	74.8	80.9	92.8	121.5	167.2	178.7	192.3	199.6	250.5	273.5	281.3	
1145	279.4	40.0	40.0	40.0	40.2	41.3	29.3	71.7	73.4	78.9	91.1	120.5	165.8	177.1	190.7	198.0	248.7	271.7	279.4	
1150	277.5	40.0	40.0	40.0	40.2	41.2	29.4	71.0	72.4	77.3	89.6	119.5	164.4	175.6	189.1	196.3	246.8	269.8	277.5	
1155	275.7	40.0	40.0	40.0	40.2	41.1	29.4	70.5	71.5	75.8	88.1	118.5	162.9	174.1	187.4	194.7	245.0	267.9	275.7	
1160	273.9	40.0	40.0	40.0	40.2	41.0	29.5	70.1	70.9	74.6	86.5	117.4	161.5	172.6	185.8	193.1	243.2	266.0	273.9	
1165	272.1	40.0	40.0	40.0	40.2	40.9	29.6	69.8	70.4	73.7	85.1	116.4	160.1	171.1	184.2	191.5	241.4	264.2	272.1	
1170	270.3	40.0	40.0	40.0	40.1	40.8	29.7	69.5	70.0	72.9	83.8	115.3	158.8	169.7	182.7	189.9	239.6	262.3	270.3	
1175	268.4	40.0	40.0	40.0	40.1	40.7	29.8	69.4	69.7	72.3	82.6	114.2	157.4	168.3	181.1	188.3	237.9	260.5	268.4	
1180	266.5	40.0	40.0	40.0	40.1	40.6	29.9	69.2	69.5	71.7	81.5	113.1	156.1	166.9	179.6	186.7	236.1	258.7	266.5	
1185	264.6	40.0	40.0	40.0	40.1	40.6	30.0	69.1	69.3	71.3	80.4	111.9	154.8	165.5	178.1	185.2	234.3	256.8	264.6	
1190	262.7	40.0	40.0	40.0	40.1	40.5	30.2	69.1	69.2	71.0	79.5	110.8	153.5	164.1	176.6	183.7	232.6	254.9	262.7	
1195	260.8	40.0	40.0	40.0	40.1	40.4	30.3	69.1	69.1	70.7	78.6	109.7	152.2	162.8	175.2	182.2	230.8	253.1	260.8	
1200	259.0	40.0	40.0	40.0	40.1	40.4	30.4	69.1	69.1	70.4	77.8	108.5	150.9	161.4	173.8	180.7	229.1	251.2	259.0	
1205	257.1	40.0	40.0	40.0	40.1	40.3	30.5	69.1	69.1	70.2	77.1	107.2	149.5	160.1	172.3	179.2	227.4	249.6	257.1	
1210	255.3	40.0	40.0	40.0	40.1	40.3	30.7	69.1	69.1	70.1	76.5	106.0	148.2	158.8	170.9	177.8	225.6	247.8	255.3	
1215	253.5	40.0	40.0	40.0	40.0	40.3	30.8	69.1	69.1	70.0	75.9	104.8	146.9	157.4	169.5	176.3	223.9	246.1	253.5	
1220	251.8	40.0	40.0	40.0	40.0	40.2	30.9	69.2	69.1	69.9	75.3	103.6	145.6	156.1	168.1	174.9	222.2	244.5	251.8	
1225	249.9	40.0	40.0	40.0	40.0	40.2	31.1	69.3	69.2	69.8	74.8	102.4	144.3	154.8	166.7	173.4	220.6	242.8	249.9	
1230	248.1	40.0	40.0	40.0	40.0	40.2	31.2	69.3	69.2	69.8	74.4	101.2	143.1	153.5	165.3	172.0	218.9	241.0	248.1	
1235	246.3	40.0	40.0	40.0	40.0	40.2	31.4	69.4	69.3	69.8	74.0	100.1	141.8	152.2	164.0	170.6	217.2	239.3	246.3	

VAZÕES (m³/s)																				
T (min)	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
1240	244.6	40.0	40.0	40.0	40.0	40.0	40.1	31.5	69.5	69.4	69.8	73.6	98.9	140.5	150.9	162.7	169.2	215.6	237.3	244.6
1245	242.8	40.0	40.0	40.0	40.0	40.0	40.1	31.7	69.6	69.5	69.8	73.3	97.8	139.2	149.7	161.4	167.8	214.0	235.6	242.8
1250	240.9	40.0	40.0	40.0	40.0	40.0	40.1	31.8	69.7	69.6	69.8	73.0	96.7	137.9	148.4	160.0	166.4	212.4	233.8	240.9
1255	239.2	40.0	40.0	40.0	40.0	40.0	40.1	32.0	69.9	69.7	69.9	72.8	95.6	136.7	147.1	158.7	165.1	210.8	232.3	239.2
1260	237.3	40.0	40.0	40.0	40.0	40.0	40.1	32.1	70.0	69.8	69.9	72.5	94.6	135.4	145.8	157.4	163.7	209.2	230.6	237.3
1265	235.5	40.0	40.0	40.0	40.0	40.0	40.1	32.3	70.1	69.9	70.0	72.3	93.5	134.2	144.5	156.1	162.4	207.7	228.8	235.5
1270	233.7	40.0	40.0	40.0	40.0	40.0	40.0	32.4	70.2	70.0	70.1	72.2	92.5	133.0	143.2	154.8	161.1	206.1	227.1	233.7
1275	231.9	40.0	40.0	40.0	40.0	40.0	40.0	32.5	70.4	70.1	70.1	72.0	91.6	131.8	141.9	153.5	159.8	204.6	225.4	231.9
1280	230.2	40.0	40.0	40.0	40.0	40.0	40.0	32.7	70.5	70.3	70.2	71.9	90.7	130.6	140.7	152.2	158.5	203.0	223.7	230.2
1285	228.5	40.0	40.0	40.0	40.0	40.0	40.0	32.8	70.6	70.4	70.3	71.8	89.8	129.4	139.5	151.0	157.3	201.5	221.8	228.5
1290	226.7	40.0	40.0	40.0	40.0	40.0	40.0	33.0	70.8	70.6	70.4	71.7	88.9	128.3	138.2	149.7	156.1	200.0	220.3	226.7
1295	224.9	40.0	40.0	40.0	40.0	40.0	40.0	33.1	70.9	70.7	70.5	71.6	88.0	127.1	137.0	148.4	154.8	198.5	218.6	224.9
1300	223.0	40.0	40.0	40.0	40.0	40.0	40.0	33.3	71.1	70.8	70.6	71.5	87.2	125.9	135.8	147.2	153.5	197.0	216.9	223.0
1305	221.3	40.0	40.0	40.0	40.0	40.0	40.0	33.5	71.2	71.0	70.8	71.5	86.4	124.8	134.6	145.9	152.3	195.5	215.3	221.3
1310	219.6	40.0	40.0	40.0	40.0	40.0	40.0	33.6	71.4	71.1	70.9	71.5	85.7	123.6	133.3	144.7	151.0	194.0	213.7	219.6
1315	217.9	40.0	40.0	40.0	40.0	40.0	40.0	33.7	71.5	71.3	71.0	71.5	85.0	122.5	132.2	143.5	149.7	192.6	212.1	217.9
1320	216.3	40.0	40.0	40.0	40.0	40.0	40.0	33.9	71.7	71.4	71.1	71.5	84.3	121.4	131.0	142.2	148.5	191.1	210.5	216.3
1325	214.6	40.0	40.0	40.0	40.0	40.0	40.0	34.0	71.8	71.6	71.3	71.5	83.7	120.2	129.8	141.0	147.2	189.6	208.9	214.6
1330	212.9	40.0	40.0	40.0	40.0	40.0	40.0	34.2	72.0	71.7	71.4	71.5	83.1	119.2	128.6	139.8	146.0	188.2	207.3	212.9
1335	211.2	40.0	40.0	40.0	40.0	40.0	40.0	34.3	72.2	71.9	71.5	71.5	82.6	118.1	127.5	138.5	144.7	186.8	205.7	211.2
1340	209.5	40.0	40.0	40.0	40.0	40.0	40.0	34.5	72.3	72.0	71.7	71.6	82.1	117.0	126.4	137.3	143.5	185.4	204.1	209.5
1345	207.9	40.0	40.0	40.0	40.0	40.0	40.0	34.6	72.5	72.2	71.8	71.6	81.6	116.0	125.3	136.1	142.3	184.1	202.6	207.9
1350	206.3	40.0	40.0	40.0	40.0	40.0	40.0	34.8	72.6	72.4	72.0	71.7	81.2	115.0	124.3	135.0	141.2	182.7	201.1	206.3
1355	204.8	40.0	40.0	40.0	40.0	40.0	40.0	34.9	72.8	72.5	72.1	71.7	80.7	114.0	123.2	133.8	140.0	181.4	199.7	204.8
1360	203.3	40.0	40.0	40.0	40.0	40.0	40.0	35.0	72.9	72.7	72.2	71.8	80.3	113.1	122.1	132.7	138.8	180.1	198.2	203.3

VAZÕES (m³/s)																				
T (min)	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construçõe s	Ponte da Estrada Rio Acima	Ponte a montante da Confluênci a	Confluênci a com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/R ua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
1365	201.8	40.0	40.0	40.0	40.0	40.0	40.0	35.2	73.1	72.8	72.4	71.9	79.9	112.1	121.1	131.6	137.7	178.7	196.8	201.8
1370	200.3	40.0	40.0	40.0	40.0	40.0	40.0	35.3	73.2	73.0	72.5	72.0	79.5	111.2	120.1	130.5	136.6	177.4	195.3	200.3
1375	198.8	40.0	40.0	40.0	40.0	40.0	40.0	35.4	73.4	73.1	72.7	72.1	79.1	110.3	119.1	129.4	135.4	176.1	193.9	198.8
1380	197.4	40.0	40.0	40.0	40.0	40.0	40.0	35.6	73.6	73.3	72.8	72.2	78.8	109.4	118.2	128.3	134.3	174.9	192.4	197.4
1385	195.9	40.0	40.0	40.0	40.0	40.0	40.0	35.7	73.7	73.4	73.0	72.3	78.4	108.5	117.2	127.3	133.2	173.6	190.9	195.9
1390	194.4	40.0	40.0	40.0	40.0	40.0	40.0	35.8	73.9	73.6	73.1	72.4	78.1	107.7	116.3	126.2	132.1	172.3	189.5	194.4
1395	193.0	40.0	40.0	40.0	40.0	40.0	40.0	35.9	74.0	73.8	73.3	72.5	77.8	106.9	115.4	125.2	131.0	171.0	188.1	193.0
1400	191.6	40.0	40.0	40.0	40.0	40.0	40.0	36.1	74.2	73.9	73.4	72.6	77.5	106.1	114.4	124.2	130.0	169.7	186.8	191.6
1405	190.2	40.0	40.0	40.0	40.0	40.0	40.0	36.2	74.3	74.0	73.6	72.7	77.3	105.3	113.6	123.2	128.9	168.5	185.4	190.2
1410	188.8	40.0	40.0	40.0	40.0	40.0	40.0	36.3	74.4	74.2	73.7	72.8	77.0	104.5	112.7	122.2	127.9	167.2	184.1	188.8
1415	187.4	40.0	40.0	40.0	40.0	40.0	40.0	36.5	74.6	74.3	73.9	72.9	76.8	103.8	111.9	121.2	126.9	165.9	182.8	187.4
1420	186.1	40.0	40.0	40.0	40.0	40.0	40.0	36.6	74.7	74.5	74.0	73.1	76.6	103.0	111.0	120.2	125.9	164.7	181.4	186.1
1425	184.7	40.0	40.0	40.0	40.0	40.0	40.0	36.7	74.9	74.6	74.2	73.2	76.3	102.3	110.2	119.3	124.8	163.4	180.1	184.7
1430	183.4	40.0	40.0	40.0	40.0	40.0	40.0	36.8	75.0	74.8	74.3	73.3	76.1	101.6	109.4	118.3	123.9	162.2	178.8	183.4
1435	182.1	40.0	40.0	40.0	40.0	40.0	40.0	37.0	75.1	74.9	74.4	73.4	76.0	100.9	108.5	117.4	122.9	161.0	177.3	182.1
1440	180.7	40.0	40.0	40.0	40.0	40.0	40.0	37.1	75.3	75.1	74.6	73.6	75.8	100.2	107.7	116.5	121.9	159.8	176.0	180.7
1445	179.4	40.0	40.0	40.0	40.0	40.0	40.0	37.2	75.4	75.2	74.7	73.7	75.6	99.5	107.0	115.6	120.9	158.6	174.7	179.4
1450	178.0	40.0	40.0	40.0	40.0	40.0	40.0	37.3	75.6	75.3	74.9	73.8	75.5	98.9	106.2	114.7	120.0	157.4	173.4	178.0
1455	176.8	40.0	40.0	40.0	40.0	40.0	40.0	37.4	75.7	75.5	75.0	73.9	75.4	98.3	105.5	113.9	119.1	156.2	172.2	176.8
1460	175.6	40.0	40.0	40.0	40.0	40.0	40.0	37.6	75.8	75.6	75.1	74.1	75.3	97.7	104.7	113.0	118.2	155.0	170.9	175.6
1465	174.3	40.0	40.0	40.0	40.0	40.0	40.0	37.7	76.0	75.7	75.3	74.2	75.2	97.1	104.0	112.2	117.3	153.9	169.6	174.3
1470	173.1	40.0	40.0	40.0	40.0	40.0	40.0	37.8	76.1	75.9	75.4	74.3	75.1	96.5	103.3	111.4	116.4	152.7	168.3	173.1
1475	171.8	40.0	40.0	40.0	40.0	40.0	40.0	37.9	76.2	76.0	75.5	74.5	75.0	95.9	102.6	110.6	115.5	151.6	166.9	171.8
1480	170.5	40.0	40.0	40.0	40.0	40.0	40.0	38.0	76.4	76.1	75.7	74.6	74.9	95.3	101.9	109.8	114.6	150.4	165.7	170.5
1485	169.3	40.0	40.0	40.0	40.0	40.0	40.0	38.1	76.5	76.3	75.8	74.7	74.9	94.8	101.3	109.0	113.8	149.3	164.4	169.3

T (min)	VAZÕES (m <sup>3</sup> /s)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluênci a	Confluênci a com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/R ua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
1490	168.0	40.0	40.0	40.0	40.0	40.0	40.0	38.3	76.6	76.4	75.9	74.8	74.8	94.3	100.6	108.2	113.0	148.2	163.1	168.0
1495	166.7	40.0	40.0	40.0	40.0	40.0	40.0	38.4	76.7	76.5	76.1	75.0	74.8	93.8	100.0	107.5	112.1	147.1	161.9	166.7
1500	165.4	40.0	40.0	40.0	40.0	40.0	40.0	38.5	76.9	76.6	76.2	75.1	74.8	93.2	99.3	106.7	111.3	146.0	160.7	165.4

## 7.2 PASSAGEM DA CHEIA DECAMILENAR – EVOLUÇÕES DE NA E VAZÕES NAS SEÇÕES A JUSANTE

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
0	552.42	549.82	548.84	547.72	538.87	534.50	534.38	535.09	530.60	528.72	526.22	526.11	524.52	523.76	523.54	522.72	522.51	516.46	514.26	513.18
5	552.42	549.82	548.84	547.72	538.87	534.50	534.38	535.09	530.60	528.72	526.22	526.11	524.52	523.76	523.54	522.72	522.51	516.46	514.26	513.18
10	552.42	549.82	548.84	547.72	538.87	534.39	534.39	535.32	530.59	528.75	526.22	526.11	524.53	523.77	523.53	522.70	522.51	516.46	514.27	513.19
15	552.42	549.82	548.84	547.72	538.87	534.41	534.41	535.42	530.59	528.75	526.22	526.11	524.53	523.78	523.53	522.69	522.50	516.46	514.27	513.19
20	552.42	549.83	548.84	547.72	538.87	534.45	534.45	535.42	530.59	528.74	526.22	526.11	524.53	523.78	523.54	522.69	522.49	516.46	514.28	513.20
25	552.42	549.83	548.85	547.72	538.87	534.48	534.48	535.36	530.60	528.74	526.22	526.11	524.53	523.78	523.54	522.68	522.49	516.46	514.28	513.20
30	552.41	549.83	548.85	547.72	538.87	534.48	534.48	535.31	530.61	528.75	526.23	526.12	524.53	523.79	523.54	522.68	522.48	516.46	514.28	513.20
35	552.40	549.83	548.85	547.72	538.87	534.47	534.47	535.27	530.64	528.76	526.23	526.12	524.53	523.79	523.54	522.68	522.48	516.46	514.28	513.20
40	552.40	549.83	548.85	547.72	538.87	534.45	534.45	535.25	530.66	528.77	526.23	526.12	524.52	523.79	523.55	522.68	522.48	516.46	514.28	513.20
45	552.40	549.82	548.85	547.72	538.87	534.42	534.42	535.25	530.69	528.80	526.23	526.12	524.52	523.79	523.55	522.68	522.47	516.46	514.27	513.20
50	552.40	549.82	548.85	547.72	538.87	534.40	534.40	535.26	530.71	528.82	526.24	526.13	524.52	523.79	523.55	522.67	522.47	516.46	514.27	513.20
55	552.40	549.82	548.85	547.72	538.87	534.39	534.39	535.28	530.72	528.84	526.25	526.13	524.52	523.79	523.55	522.67	522.47	516.46	514.27	513.20
60	552.40	549.82	548.85	547.72	538.87	534.38	534.38	535.30	530.72	528.85	526.26	526.14	524.52	523.80	523.55	522.67	522.47	516.46	514.27	513.20
65	552.40	549.82	548.85	547.72	538.87	534.37	534.37	535.33	530.71	528.85	526.27	526.15	524.52	523.80	523.55	522.67	522.47	516.46	514.27	513.20
70	552.40	549.82	548.85	547.73	538.87	534.35	534.35	535.36	530.70	528.85	526.28	526.16	524.51	523.80	523.56	522.67	522.47	516.46	514.27	513.20
75	552.40	549.81	548.84	547.72	538.87	534.34	534.34	535.40	530.69	528.84	526.29	526.17	524.51	523.80	523.56	522.67	522.47	516.46	514.26	513.19
80	552.41	549.81	548.84	547.72	538.87	534.30	534.30	535.46	530.67	528.83	526.30	526.18	524.51	523.80	523.56	522.67	522.46	516.47	514.26	513.19
85	552.41	549.81	548.84	547.72	538.87	534.27	534.27	535.52	530.65	528.81	526.30	526.19	524.51	523.80	523.56	522.67	522.46	516.47	514.26	513.19
90	552.42	549.82	548.84	547.72	538.87	534.26	534.26	535.56	530.63	528.80	526.31	526.19	524.51	523.80	523.56	522.67	522.46	516.47	514.26	513.19
95	552.44	549.82	548.84	547.72	538.87	534.25	534.25	535.58	530.61	528.78	526.31	526.19	524.51	523.80	523.56	522.67	522.46	516.47	514.26	513.19
100	552.46	549.82	548.84	547.72	538.87	534.25	534.25	535.60	530.58	528.76	526.31	526.19	524.51	523.80	523.56	522.67	522.46	516.47	514.26	513.19

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
105	552.50	549.83	548.84	547.72	538.87	534.25	534.25	535.61	530.55	528.74	526.30	526.19	524.51	523.80	523.56	522.67	522.46	516.47	514.26	513.19
110	552.54	549.84	548.84	547.72	538.87	534.25	534.25	535.63	530.52	528.72	526.30	526.19	524.51	523.80	523.56	522.67	522.46	516.47	514.26	513.19
115	552.58	549.86	548.85	547.72	538.87	534.25	534.25	535.64	530.50	528.69	526.29	526.19	524.51	523.80	523.56	522.68	522.46	516.47	514.26	513.19
120	552.63	549.89	548.85	547.72	538.87	534.25	534.25	535.65	530.48	528.67	526.28	526.18	524.51	523.80	523.57	522.68	522.46	516.47	514.26	513.19
125	552.68	549.92	548.86	547.72	538.87	534.25	534.25	535.66	530.46	528.64	526.27	526.18	524.52	523.80	523.57	522.68	522.46	516.47	514.26	513.19
130	552.75	549.96	548.88	547.72	538.87	534.25	534.25	535.68	530.44	528.62	526.26	526.17	524.52	523.80	523.57	522.68	522.46	516.47	514.26	513.19
135	552.83	550.00	548.90	547.73	538.87	534.25	534.25	535.69	530.43	528.61	526.25	526.16	524.52	523.80	523.57	522.68	522.46	516.47	514.26	513.19
140	552.90	550.06	548.92	547.73	538.87	534.25	534.25	535.70	530.43	528.60	526.24	526.15	524.52	523.80	523.57	522.68	522.46	516.47	514.26	513.19
145	552.97	550.12	548.96	547.74	538.87	534.25	534.25	535.71	530.42	528.59	526.22	526.14	524.52	523.80	523.57	522.68	522.46	516.47	514.26	513.19
150	553.04	550.20	549.00	547.75	538.87	534.25	534.25	535.72	530.42	528.58	526.21	526.12	524.53	523.80	523.57	522.68	522.46	516.47	514.26	513.19
155	553.12	550.29	549.06	547.77	538.87	534.25	534.25	535.73	530.41	528.58	526.20	526.11	524.53	523.80	523.57	522.68	522.46	516.47	514.26	513.19
160	553.18	550.37	549.14	547.79	538.87	534.25	534.25	535.74	530.41	528.57	526.19	526.10	524.53	523.80	523.57	522.68	522.46	516.47	514.26	513.19
165	553.24	550.46	549.22	547.82	538.87	534.26	534.26	535.75	530.41	528.57	526.18	526.09	524.53	523.81	523.57	522.68	522.46	516.47	514.27	513.19
170	553.30	550.55	549.31	547.86	538.87	534.26	534.26	535.76	530.41	528.57	526.17	526.08	524.53	523.81	523.57	522.68	522.46	516.47	514.27	513.19
175	553.36	550.64	549.40	547.91	538.87	534.26	534.26	535.77	530.41	528.57	526.16	526.07	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
180	553.41	550.72	549.50	547.98	538.87	534.26	534.26	535.78	530.41	528.57	526.15	526.06	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
185	553.46	550.81	549.60	548.05	538.87	534.26	534.26	535.79	530.42	528.57	526.14	526.05	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
190	553.51	550.89	549.69	548.13	538.87	534.26	534.26	535.80	530.42	528.57	526.13	526.05	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
195	553.57	550.97	549.78	548.22	538.87	534.26	534.26	535.81	530.42	528.57	526.13	526.04	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
200	553.62	551.05	549.86	548.31	538.87	534.26	534.26	535.82	530.42	528.57	526.12	526.03	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
205	553.66	551.13	549.93	548.41	538.87	534.26	534.26	535.83	530.42	528.58	526.12	526.03	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
210	553.70	551.20	550.00	548.50	538.87	534.26	534.26	535.84	530.42	528.58	526.11	526.02	524.53	523.81	523.57	522.68	522.47	516.47	514.27	513.19
215	553.74	551.27	550.07	548.58	538.87	534.26	534.26	535.84	530.42	528.58	526.11	526.02	524.52	523.81	523.57	522.68	522.47	516.47	514.27	513.19
220	553.78	551.34	550.13	548.66	538.87	534.26	534.26	535.85	530.42	528.58	526.10	526.01	524.52	523.82	523.58	522.68	522.47	516.47	514.27	513.19
225	553.81	551.40	550.19	548.74	538.88	534.27	534.27	535.86	530.43	528.58	526.10	526.01	524.52	523.82	523.58	522.68	522.47	516.47	514.27	513.20

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
230	553.84	551.45	550.25	548.81	538.88	534.27	534.27	535.87	530.43	528.58	526.10	526.01	524.52	523.82	523.58	522.68	522.47	516.47	514.27	513.20
235	553.87	551.51	550.30	548.88	538.88	534.27	534.27	535.88	530.43	528.58	526.09	526.00	524.51	523.82	523.58	522.68	522.47	516.47	514.27	513.20
240	553.90	551.56	550.35	548.95	538.89	534.27	534.27	535.89	530.43	528.58	526.09	526.00	524.51	523.82	523.58	522.68	522.47	516.47	514.27	513.20
245	553.92	551.60	550.39	549.01	538.90	534.27	534.27	535.89	530.43	528.59	526.09	526.00	524.50	523.82	523.58	522.68	522.47	516.47	514.27	513.20
250	553.94	551.64	550.43	549.07	538.92	534.27	534.27	535.90	530.43	528.59	526.09	525.99	524.50	523.82	523.58	522.68	522.47	516.47	514.27	513.20
255	553.96	551.68	550.47	549.12	538.94	534.27	534.27	535.91	530.43	528.59	526.09	525.99	524.50	523.82	523.58	522.68	522.47	516.47	514.27	513.20
260	553.98	551.71	550.51	549.17	538.98	534.27	534.27	535.92	530.43	528.59	526.08	525.99	524.49	523.82	523.58	522.69	522.47	516.47	514.27	513.20
265	553.99	551.74	550.54	549.22	539.04	534.27	534.27	535.92	530.44	528.59	526.08	525.99	524.49	523.82	523.58	522.69	522.47	516.47	514.27	513.20
270	554.00	551.77	550.57	549.26	539.12	534.27	534.27	535.93	530.44	528.59	526.08	525.99	524.49	523.82	523.58	522.69	522.47	516.47	514.27	513.19
275	554.01	551.79	550.59	549.30	539.22	534.28	534.28	535.94	530.44	528.59	526.08	525.99	524.48	523.81	523.58	522.69	522.47	516.47	514.27	513.19
280	554.01	551.81	550.61	549.34	539.33	534.28	534.28	535.95	530.44	528.59	526.08	525.99	524.48	523.81	523.58	522.69	522.47	516.47	514.27	513.19
285	554.02	551.83	550.63	549.37	539.47	534.28	534.28	535.95	530.44	528.60	526.08	525.99	524.47	523.81	523.58	522.69	522.47	516.47	514.27	513.19
290	554.02	551.84	550.65	549.39	539.59	534.29	534.29	535.96	530.44	528.60	526.08	525.99	524.47	523.81	523.58	522.69	522.47	516.47	514.27	513.19
295	554.02	551.85	550.66	549.42	539.72	534.29	534.29	535.96	530.44	528.60	526.08	525.99	524.47	523.81	523.58	522.69	522.47	516.47	514.27	513.19
300	554.01	551.85	550.67	549.44	539.84	534.31	534.31	535.97	530.45	528.60	526.08	525.98	524.46	523.81	523.58	522.69	522.47	516.47	514.27	513.19
305	554.01	551.85	550.68	549.46	539.94	534.46	534.46	535.89	530.45	528.60	526.08	525.98	524.46	523.81	523.58	522.69	522.47	516.47	514.27	513.19
310	554.00	551.85	550.68	549.47	540.04	534.71	534.71	535.68	530.45	528.60	526.08	525.98	524.46	523.81	523.58	522.69	522.47	516.47	514.27	513.19
315	553.99	551.85	550.68	549.49	540.13	534.80	534.80	535.43	530.46	528.61	526.08	525.98	524.45	523.80	523.58	522.69	522.47	516.47	514.27	513.19
320	553.99	551.85	550.68	549.50	540.21	534.78	534.78	535.34	530.50	528.61	526.08	525.98	524.45	523.80	523.57	522.69	522.47	516.47	514.27	513.19
325	553.98	551.84	550.68	549.51	540.28	534.77	534.77	535.31	530.62	528.64	526.08	525.99	524.45	523.80	523.57	522.69	522.47	516.47	514.27	513.19
330	553.97	551.83	550.68	549.51	540.34	534.79	534.79	535.29	530.81	528.74	526.09	525.99	524.44	523.80	523.57	522.69	522.47	516.47	514.27	513.19
335	553.95	551.82	550.67	549.51	540.40	534.82	534.82	535.27	530.95	528.90	526.09	525.99	524.44	523.79	523.57	522.69	522.47	516.47	514.27	513.19
340	553.94	551.81	550.67	549.51	540.45	534.85	534.85	535.26	531.06	529.04	526.12	525.99	524.44	523.79	523.57	522.68	522.47	516.47	514.26	513.19
345	553.93	551.80	550.66	549.51	540.49	534.89	534.89	535.24	531.13	529.15	526.17	526.01	524.43	523.79	523.57	522.68	522.47	516.47	514.26	513.19
350	553.91	551.78	550.65	549.51	540.53	534.93	534.93	535.23	531.18	529.21	526.24	526.04	524.43	523.79	523.56	522.68	522.47	516.47	514.26	513.19

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
355	553.90	551.76	550.64	549.50	540.56	534.97	534.97	535.23	531.24	529.27	526.32	526.10	524.43	523.78	523.56	522.68	522.47	516.47	514.26	513.19
360	553.88	551.75	550.63	549.50	540.59	535.00	535.00	535.22	531.30	529.32	526.39	526.16	524.42	523.78	523.56	522.68	522.47	516.47	514.26	513.19
365	553.86	551.73	550.61	549.49	540.61	535.03	535.03	535.22	531.35	529.37	526.47	526.23	524.42	523.78	523.56	522.68	522.47	516.47	514.26	513.19
370	553.84	551.70	550.60	549.48	540.63	535.06	535.06	535.22	531.40	529.43	526.54	526.31	524.42	523.78	523.55	522.68	522.47	516.47	514.26	513.19
375	553.81	551.68	550.58	549.47	540.65	535.08	535.08	535.22	531.45	529.47	526.62	526.38	524.42	523.77	523.55	522.68	522.47	516.47	514.26	513.19
380	553.79	551.65	550.56	549.46	540.66	535.10	535.10	535.23	531.49	529.51	526.69	526.45	524.42	523.77	523.55	522.68	522.47	516.47	514.26	513.19
385	553.77	551.63	550.54	549.44	540.67	535.12	535.12	535.23	531.53	529.55	526.76	526.52	524.41	523.77	523.55	522.68	522.47	516.47	514.26	513.19
390	553.75	551.60	550.52	549.43	540.68	535.14	535.14	535.23	531.57	529.59	526.83	526.60	524.41	523.77	523.54	522.67	522.47	516.47	514.26	513.19
395	553.72	551.57	550.50	549.41	540.68	535.15	535.15	535.24	531.60	529.62	526.90	526.66	524.41	523.76	523.54	522.67	522.47	516.47	514.26	513.19
400	553.70	551.54	550.48	549.39	540.69	535.16	535.16	535.24	531.63	529.65	526.96	526.73	524.42	523.76	523.54	522.67	522.46	516.47	514.26	513.19
405	553.68	551.51	550.45	549.37	540.69	535.17	535.17	535.24	531.65	529.68	527.02	526.79	524.42	523.76	523.54	522.67	522.46	516.47	514.26	513.19
410	553.66	551.48	550.43	549.35	540.68	535.18	535.18	535.25	531.67	529.70	527.08	526.85	524.43	523.75	523.53	522.67	522.46	516.47	514.26	513.19
415	553.64	551.46	550.41	549.33	540.68	535.19	535.19	535.25	531.69	529.72	527.13	526.90	524.44	523.75	523.53	522.67	522.46	516.47	514.26	513.19
420	553.61	551.43	550.39	549.31	540.67	535.19	535.19	535.25	531.70	529.73	527.18	526.95	524.46	523.75	523.53	522.66	522.46	516.47	514.26	513.19
425	553.59	551.40	550.36	549.29	540.67	535.19	535.19	535.25	531.71	529.74	527.22	527.00	524.49	523.75	523.53	522.66	522.46	516.47	514.26	513.19
430	553.56	551.37	550.34	549.27	540.66	535.19	535.19	535.25	531.72	529.75	527.25	527.04	524.52	523.74	523.52	522.66	522.46	516.47	514.26	513.19
435	553.54	551.34	550.31	549.25	540.65	535.19	535.19	535.25	531.72	529.76	527.29	527.07	524.55	523.74	523.52	522.66	522.45	516.47	514.26	513.19
440	553.52	551.31	550.29	549.22	540.63	535.19	535.19	535.25	531.73	529.76	527.32	527.10	524.60	523.74	523.52	522.66	522.45	516.47	514.26	513.19
445	553.49	551.28	550.26	549.20	540.62	535.19	535.19	535.25	531.73	529.77	527.34	527.13	524.65	523.74	523.52	522.66	522.45	516.47	514.26	513.19
450	553.47	551.24	550.24	549.18	540.61	535.19	535.19	535.24	531.73	529.77	527.36	527.15	524.70	523.74	523.51	522.65	522.45	516.47	514.26	513.19
455	553.45	551.21	550.21	549.15	540.59	535.18	535.18	535.24	531.73	529.77	527.38	527.17	524.75	523.74	523.51	522.65	522.45	516.47	514.26	513.19
460	553.43	551.18	550.19	549.13	540.57	535.18	535.18	535.24	531.73	529.77	527.40	527.19	524.81	523.75	523.51	522.65	522.45	516.47	514.26	513.19
465	553.41	551.15	550.16	549.10	540.56	535.17	535.17	535.23	531.72	529.77	527.41	527.20	524.87	523.75	523.51	522.65	522.44	516.47	514.26	513.19
470	553.38	551.13	550.14	549.08	540.54	535.16	535.16	535.23	531.72	529.77	527.42	527.22	524.92	523.76	523.51	522.65	522.44	516.47	514.26	513.19
475	553.36	551.10	550.11	549.05	540.52	535.16	535.16	535.23	531.72	529.76	527.43	527.23	524.97	523.77	523.52	522.65	522.44	516.47	514.26	513.19

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
480	553.34	551.07	550.09	549.03	540.50	535.15	535.15	535.22	531.71	529.76	527.43	527.23	525.02	523.79	523.52	522.65	522.44	516.47	514.26	513.19
485	553.32	551.04	550.07	549.00	540.48	535.14	535.14	535.22	531.70	529.75	527.43	527.24	525.06	523.81	523.53	522.65	522.44	516.47	514.26	513.19
490	553.30	551.01	550.04	548.98	540.46	535.13	535.13	535.21	531.69	529.74	527.44	527.24	525.11	523.83	523.54	522.65	522.44	516.47	514.26	513.19
495	553.28	550.98	550.02	548.96	540.44	535.12	535.12	535.21	531.69	529.74	527.44	527.24	525.15	523.85	523.55	522.65	522.44	516.47	514.26	513.19
500	553.26	550.96	549.99	548.93	540.41	535.11	535.11	535.20	531.68	529.73	527.44	527.25	525.18	523.88	523.56	522.65	522.44	516.47	514.26	513.19
505	553.24	550.93	549.97	548.91	540.39	535.10	535.10	535.20	531.67	529.72	527.43	527.24	525.21	523.92	523.58	522.65	522.44	516.47	514.27	513.19
510	553.22	550.91	549.95	548.88	540.37	535.09	535.09	535.20	531.66	529.71	527.43	527.24	525.24	523.95	523.60	522.66	522.44	516.47	514.27	513.19
515	553.20	550.88	549.93	548.86	540.35	535.08	535.08	535.19	531.65	529.70	527.43	527.24	525.27	523.99	523.62	522.66	522.44	516.47	514.27	513.19
520	553.18	550.86	549.90	548.84	540.32	535.07	535.07	535.19	531.63	529.69	527.42	527.24	525.30	524.03	523.65	522.67	522.44	516.47	514.27	513.19
525	553.17	550.83	549.88	548.81	540.30	535.06	535.06	535.18	531.62	529.68	527.41	527.23	525.32	524.07	523.68	522.68	522.45	516.47	514.27	513.19
530	553.15	550.81	549.86	548.79	540.28	535.05	535.05	535.18	531.61	529.67	527.41	527.23	525.34	524.11	523.71	522.69	522.45	516.47	514.27	513.19
535	553.13	550.78	549.84	548.77	540.25	535.03	535.03	535.18	531.60	529.66	527.40	527.22	525.36	524.16	523.75	522.70	522.46	516.47	514.27	513.19
540	553.11	550.76	549.82	548.75	540.23	535.02	535.02	535.18	531.59	529.64	527.39	527.21	525.37	524.20	523.78	522.72	522.47	516.46	514.27	513.19
545	553.09	550.73	549.80	548.72	540.21	535.01	535.01	535.17	531.57	529.63	527.38	527.21	525.39	524.24	523.82	522.73	522.48	516.46	514.27	513.19
550	553.07	550.71	549.78	548.70	540.19	535.00	535.00	535.17	531.56	529.62	527.37	527.20	525.40	524.29	523.87	522.75	522.49	516.46	514.27	513.19
555	553.05	550.68	549.76	548.68	540.16	534.98	534.98	535.17	531.54	529.61	527.36	527.19	525.41	524.33	523.91	522.77	522.50	516.46	514.26	513.19
560	553.03	550.66	549.74	548.66	540.14	534.97	534.97	535.17	531.53	529.59	527.35	527.18	525.42	524.37	523.95	522.80	522.52	516.46	514.26	513.19
565	553.01	550.64	549.71	548.64	540.12	534.96	534.96	535.16	531.51	529.58	527.33	527.17	525.43	524.41	523.99	522.82	522.54	516.46	514.26	513.19
570	552.99	550.61	549.69	548.62	540.10	534.95	534.95	535.16	531.50	529.57	527.32	527.16	525.44	524.45	524.03	522.85	522.56	516.46	514.26	513.19
575	552.97	550.59	549.67	548.60	540.07	534.94	534.94	535.16	531.48	529.55	527.31	527.15	525.45	524.48	524.08	522.88	522.58	516.46	514.26	513.19
580	552.95	550.57	549.65	548.58	540.05	534.93	534.93	535.16	531.47	529.54	527.30	527.14	525.46	524.51	524.12	522.91	522.61	516.46	514.26	513.19
585	552.93	550.55	549.63	548.55	540.03	534.91	534.91	535.16	531.45	529.53	527.28	527.12	525.46	524.55	524.16	522.94	522.64	516.46	514.26	513.19
590	552.92	550.52	549.61	548.53	540.01	534.90	534.90	535.15	531.44	529.51	527.27	527.11	525.47	524.58	524.20	522.97	522.66	516.46	514.26	513.19
595	552.90	550.50	549.59	548.51	539.99	534.89	534.89	535.15	531.42	529.50	527.26	527.10	525.47	524.61	524.23	523.00	522.69	516.46	514.26	513.19
600	552.88	550.48	549.57	548.49	539.97	534.88	534.88	535.15	531.41	529.49	527.24	527.09	525.48	524.64	524.27	523.03	522.72	516.46	514.26	513.19

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
605	552.87	550.46	549.55	548.47	539.95	534.87	534.87	535.15	531.39	529.47	527.23	527.08	525.48	524.66	524.30	523.06	522.75	516.46	514.26	513.19
610	552.85	550.44	549.53	548.45	539.93	534.86	534.86	535.15	531.38	529.46	527.22	527.06	525.48	524.69	524.33	523.09	522.78	516.46	514.26	513.19
615	552.83	550.42	549.51	548.44	539.91	534.85	534.85	535.15	531.37	529.45	527.20	527.05	525.48	524.71	524.36	523.11	522.81	516.46	514.26	513.19
620	552.82	550.40	549.49	548.42	539.89	534.84	534.84	535.15	531.35	529.44	527.19	527.04	525.48	524.73	524.39	523.14	522.84	516.46	514.26	513.19
625	552.80	550.38	549.47	548.40	539.87	534.83	534.83	535.15	531.34	529.42	527.17	527.02	525.49	524.75	524.42	523.17	522.87	516.46	514.26	513.19
630	552.78	550.36	549.45	548.38	539.85	534.82	534.82	535.15	531.33	529.41	527.16	527.01	525.49	524.77	524.45	523.20	522.90	516.46	514.26	513.19
635	552.76	550.34	549.43	548.36	539.83	534.81	534.81	535.15	531.31	529.40	527.14	527.00	525.49	524.79	524.47	523.22	522.93	516.46	514.26	513.19
640	552.75	550.32	549.41	548.34	539.81	534.80	534.80	535.15	531.30	529.38	527.13	526.99	525.48	524.80	524.49	523.25	522.96	516.46	514.26	513.19
645	552.73	550.30	549.39	548.33	539.79	534.79	534.79	535.15	531.29	529.37	527.12	526.97	525.48	524.82	524.51	523.27	522.99	516.46	514.26	513.19
650	552.71	550.28	549.37	548.31	539.77	534.78	534.78	535.15	531.28	529.36	527.10	526.96	525.48	524.83	524.53	523.29	523.01	516.46	514.26	513.18
655	552.69	550.26	549.35	548.29	539.76	534.77	534.77	535.15	531.26	529.35	527.09	526.95	525.48	524.85	524.55	523.31	523.04	516.46	514.26	513.18
660	552.67	550.24	549.33	548.27	539.74	534.76	534.76	535.15	531.25	529.34	527.07	526.93	525.48	524.86	524.57	523.33	523.06	516.46	514.26	513.18
665	552.65	550.22	549.32	548.26	539.72	534.75	534.75	535.15	531.23	529.33	527.06	526.92	525.48	524.87	524.58	523.35	523.09	516.47	514.26	513.18
670	552.64	550.20	549.30	548.24	539.70	534.74	534.74	535.15	531.22	529.31	527.05	526.91	525.47	524.88	524.60	523.37	523.11	516.47	514.26	513.18
675	552.62	550.18	549.28	548.22	539.69	534.73	534.73	535.15	531.21	529.30	527.03	526.90	525.47	524.89	524.61	523.39	523.13	516.48	514.26	513.18
680	552.60	550.16	549.26	548.20	539.67	534.72	534.72	535.15	531.19	529.29	527.02	526.88	525.47	524.90	524.62	523.41	523.15	516.48	514.26	513.18
685	552.59	550.14	549.24	548.19	539.65	534.71	534.71	535.15	531.18	529.28	527.01	526.87	525.46	524.90	524.63	523.42	523.17	516.49	514.26	513.18
690	552.58	550.12	549.23	548.17	539.63	534.71	534.71	535.15	531.17	529.27	526.99	526.86	525.46	524.91	524.64	523.44	523.19	516.50	514.26	513.18
695	552.56	550.11	549.21	548.15	539.62	534.70	534.70	535.15	531.16	529.25	526.98	526.85	525.46	524.91	524.65	523.45	523.20	516.51	514.26	513.18
700	552.55	550.09	549.19	548.14	539.60	534.69	534.69	535.15	531.14	529.24	526.97	526.84	525.45	524.92	524.66	523.46	523.22	516.52	514.26	513.18
705	552.54	550.07	549.17	548.12	539.58	534.68	534.68	535.15	531.13	529.23	526.95	526.82	525.45	524.92	524.66	523.48	523.23	516.53	514.26	513.18
710	552.53	550.05	549.16	548.11	539.57	534.67	534.67	535.15	531.12	529.22	526.94	526.81	525.44	524.93	524.67	523.49	523.25	516.54	514.26	513.18
715	552.51	550.03	549.14	548.09	539.55	534.67	534.67	535.15	531.11	529.21	526.93	526.80	525.44	524.93	524.67	523.50	523.26	516.56	514.26	513.18
720	552.50	550.02	549.12	548.07	539.54	534.66	534.66	535.15	531.10	529.20	526.92	526.79	525.43	524.93	524.68	523.51	523.27	516.58	514.27	513.19
725	552.49	550.00	549.10	548.06	539.52	534.65	534.65	535.15	531.09	529.19	526.90	526.77	525.43	524.93	524.68	523.51	523.28	516.60	514.27	513.19

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
730	552.48	549.99	549.08	548.04	539.50	534.64	534.64	535.15	531.07	529.18	526.89	526.76	525.42	524.93	524.69	523.52	523.29	516.62	514.28	513.19
735	552.47	549.97	549.07	548.03	539.49	534.64	534.64	535.15	531.06	529.17	526.88	526.75	525.42	524.93	524.69	523.53	523.30	516.64	514.28	513.19
740	552.46	549.96	549.05	548.01	539.47	534.63	534.63	535.15	531.05	529.16	526.87	526.74	525.41	524.93	524.69	523.53	523.31	516.66	514.29	513.20
745	552.46	549.95	549.03	548.00	539.46	534.62	534.62	535.15	531.04	529.15	526.85	526.73	525.41	524.93	524.69	523.54	523.32	516.68	514.30	513.20
750	552.45	549.94	549.02	547.98	539.44	534.61	534.61	535.15	531.03	529.14	526.84	526.72	525.40	524.93	524.69	523.54	523.32	516.70	514.30	513.21
755	552.44	549.93	549.00	547.97	539.43	534.61	534.61	535.15	531.02	529.13	526.83	526.70	525.40	524.93	524.69	523.55	523.33	516.71	514.31	513.21
760	552.44	549.91	548.99	547.95	539.41	534.60	534.60	535.15	531.01	529.13	526.82	526.69	525.39	524.93	524.69	523.55	523.33	516.73	514.33	513.22
765	552.43	549.90	548.98	547.94	539.40	534.59	534.59	535.15	531.00	529.12	526.80	526.68	525.38	524.93	524.69	523.55	523.34	516.75	514.34	513.23
770	552.43	549.90	548.96	547.92	539.38	534.59	534.59	535.15	531.00	529.11	526.79	526.67	525.38	524.93	524.69	523.56	523.34	516.77	514.35	513.24
775	552.43	549.89	548.95	547.91	539.37	534.58	534.58	535.15	530.99	529.10	526.78	526.66	525.37	524.92	524.69	523.56	523.35	516.79	514.37	513.26
780	552.42	549.88	548.94	547.90	539.36	534.57	534.57	535.15	530.98	529.09	526.77	526.65	525.36	524.92	524.69	523.56	523.35	516.81	514.38	513.27
785	552.42	549.87	548.93	547.88	539.34	534.57	534.57	535.15	530.97	529.08	526.76	526.64	525.36	524.92	524.68	523.56	523.35	516.83	514.40	513.28
790	552.42	549.87	548.92	547.87	539.33	534.56	534.56	535.15	530.96	529.07	526.75	526.63	525.35	524.91	524.68	523.56	523.35	516.85	514.42	513.29
795	552.42	549.86	548.92	547.86	539.31	534.55	534.55	535.15	530.95	529.06	526.74	526.62	525.34	524.91	524.68	523.56	523.35	516.87	514.44	513.31
800	552.41	549.86	548.91	547.85	539.30	534.55	534.55	535.15	530.94	529.06	526.72	526.61	525.34	524.90	524.68	523.56	523.35	516.89	514.46	513.32
805	552.41	549.85	548.90	547.84	539.28	534.54	534.54	535.15	530.93	529.05	526.71	526.60	525.33	524.90	524.67	523.56	523.36	516.91	514.48	513.34
810	552.41	549.85	548.90	547.83	539.27	534.54	534.54	535.15	530.92	529.04	526.70	526.59	525.32	524.89	524.67	523.56	523.36	516.93	514.50	513.35
815	552.41	549.84	548.89	547.82	539.25	534.53	534.53	535.15	530.90	529.03	526.69	526.58	525.31	524.89	524.66	523.56	523.36	516.94	514.52	513.37
820	552.41	549.84	548.89	547.81	539.24	534.53	534.53	535.15	530.90	529.02	526.68	526.57	525.31	524.88	524.66	523.56	523.35	516.96	514.54	513.39
825	552.41	549.84	548.88	547.80	539.22	534.52	534.52	535.15	530.89	529.01	526.67	526.56	525.30	524.88	524.66	523.56	523.35	516.97	514.56	513.40
830	552.41	549.83	548.88	547.79	539.21	534.52	534.52	535.15	530.88	529.01	526.66	526.55	525.29	524.87	524.65	523.55	523.35	516.98	514.58	513.42
835	552.41	549.83	548.87	547.79	539.19	534.51	534.51	535.15	530.87	529.00	526.65	526.54	525.29	524.87	524.65	523.55	523.35	516.99	514.60	513.44
840	552.40	549.83	548.87	547.78	539.18	534.51	534.51	535.15	530.86	528.99	526.64	526.53	525.28	524.86	524.64	523.55	523.35	517.01	514.62	513.46
845	552.40	549.83	548.87	547.77	539.17	534.50	534.50	535.15	530.85	528.98	526.63	526.52	525.27	524.85	524.64	523.55	523.35	517.02	514.64	513.48
850	552.40	549.82	548.86	547.77	539.15	534.50	534.50	535.15	530.84	528.97	526.62	526.51	525.26	524.85	524.63	523.54	523.34	517.03	514.66	513.51

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
855	552.40	549.82	548.86	547.76	539.14	534.49	534.49	535.15	530.83	528.97	526.61	526.50	525.25	524.84	524.62	523.54	523.34	517.04	514.68	513.53
860	552.40	549.82	548.86	547.76	539.13	534.49	534.49	535.15	530.83	528.96	526.60	526.49	525.25	524.84	524.62	523.54	523.34	517.05	514.70	513.55
865	552.40	549.82	548.85	547.76	539.12	534.48	534.48	535.15	530.82	528.95	526.59	526.48	525.24	524.83	524.61	523.53	523.34	517.05	514.72	513.57
870	552.40	549.82	548.85	547.75	539.11	534.48	534.48	535.15	530.81	528.94	526.59	526.47	525.23	524.82	524.61	523.53	523.33	517.06	514.73	513.58
875	552.40	549.82	548.85	547.75	539.09	534.47	534.47	535.15	530.80	528.94	526.58	526.47	525.22	524.81	524.60	523.53	523.33	517.07	514.75	513.60
880	552.40	549.82	548.85	547.74	539.08	534.47	534.47	535.15	530.79	528.93	526.57	526.46	525.21	524.81	524.59	523.52	523.33	517.08	514.76	513.61
885	552.40	549.82	548.85	547.74	539.07	534.46	534.46	535.15	530.79	528.92	526.56	526.45	525.21	524.80	524.59	523.52	523.32	517.08	514.77	513.62
890	552.40	549.82	548.85	547.74	539.06	534.46	534.46	535.15	530.78	528.92	526.55	526.44	525.20	524.79	524.58	523.51	523.32	517.09	514.79	513.64
895	552.40	549.81	548.84	547.74	539.05	534.45	534.45	535.15	530.77	528.91	526.54	526.43	525.19	524.78	524.57	523.51	523.31	517.10	514.80	513.65
900	552.40	549.81	548.84	547.73	539.04	534.45	534.45	535.15	530.77	528.90	526.53	526.42	525.18	524.78	524.56	523.51	523.31	517.10	514.81	513.66
905	552.40	549.81	548.84	547.73	539.03	534.44	534.44	535.15	530.76	528.90	526.52	526.41	525.17	524.77	524.56	523.50	523.31	517.11	514.82	513.67
910	552.40	549.81	548.84	547.73	539.02	534.44	534.44	535.15	530.75	528.89	526.51	526.41	525.17	524.76	524.55	523.50	523.30	517.11	514.83	513.68
915	552.40	549.81	548.84	547.73	539.01	534.43	534.43	535.15	530.75	528.88	526.51	526.40	525.16	524.75	524.54	523.49	523.30	517.11	514.84	513.69
920	552.40	549.81	548.84	547.73	539.00	534.43	534.43	535.15	530.74	528.88	526.50	526.39	525.15	524.75	524.54	523.49	523.29	517.12	514.85	513.70
925	552.40	549.81	548.84	547.73	538.99	534.42	534.42	535.15	530.73	528.87	526.49	526.38	525.14	524.74	524.53	523.48	523.29	517.12	514.86	513.71
930	552.40	549.81	548.84	547.72	538.98	534.42	534.42	535.15	530.73	528.87	526.48	526.38	525.13	524.73	524.52	523.48	523.28	517.12	514.87	513.71
935	552.40	549.81	548.84	547.72	538.97	534.42	534.42	535.15	530.72	528.86	526.47	526.37	525.13	524.72	524.51	523.47	523.28	517.12	514.88	513.72
940	552.40	549.81	548.84	547.72	538.97	534.42	534.42	535.15	530.71	528.86	526.47	526.36	525.12	524.71	524.51	523.46	523.27	517.12	514.88	513.73
945	552.40	549.81	548.84	547.72	538.96	534.41	534.41	535.16	530.71	528.85	526.46	526.35	525.11	524.71	524.50	523.46	523.27	517.13	514.89	513.73
950	552.40	549.81	548.84	547.72	538.95	534.41	534.41	535.16	530.70	528.84	526.45	526.34	525.10	524.70	524.49	523.45	523.26	517.13	514.89	513.74
955	552.40	549.81	548.84	547.72	538.94	534.41	534.41	535.16	530.70	528.84	526.44	526.34	525.09	524.69	524.48	523.45	523.26	517.13	514.90	513.75
960	552.40	549.81	548.84	547.72	538.94	534.40	534.40	535.16	530.69	528.83	526.43	526.33	525.09	524.68	524.47	523.44	523.25	517.13	514.90	513.75
965	552.40	549.81	548.84	547.72	538.93	534.40	534.40	535.16	530.69	528.83	526.43	526.32	525.08	524.67	524.47	523.44	523.25	517.13	514.91	513.75
970	552.40	549.81	548.83	547.72	538.93	534.40	534.40	535.17	530.68	528.83	526.42	526.32	525.07	524.67	524.46	523.43	523.24	517.13	514.91	513.76
975	552.40	549.81	548.83	547.72	538.92	534.39	534.39	535.17	530.68	528.82	526.41	526.31	525.06	524.66	524.45	523.42	523.23	517.13	514.92	513.76

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
980	552.40	549.81	548.83	547.72	538.92	534.39	534.39	535.17	530.67	528.82	526.41	526.30	525.05	524.65	524.44	523.42	523.23	517.13	514.92	513.77
985	552.40	549.81	548.83	547.72	538.91	534.39	534.39	535.17	530.67	528.81	526.40	526.30	525.04	524.64	524.43	523.41	523.22	517.12	514.92	513.77
990	552.40	549.81	548.83	547.71	538.91	534.39	534.39	535.18	530.66	528.81	526.39	526.29	525.04	524.63	524.42	523.41	523.22	517.12	514.92	513.77
995	552.40	549.81	548.83	547.71	538.90	534.38	534.38	535.18	530.66	528.80	526.39	526.28	525.03	524.62	524.42	523.40	523.21	517.12	514.93	513.77
1000	552.40	549.81	548.83	547.71	538.90	534.38	534.38	535.19	530.65	528.80	526.38	526.28	525.02	524.62	524.41	523.39	523.20	517.12	514.93	513.78
1005	552.40	549.81	548.83	547.71	538.90	534.38	534.38	535.19	530.65	528.80	526.37	526.27	525.01	524.61	524.40	523.39	523.20	517.12	514.93	513.78
1010	552.40	549.81	548.83	547.71	538.89	534.37	534.37	535.20	530.64	528.79	526.37	526.27	525.00	524.60	524.39	523.38	523.19	517.12	514.93	513.78
1015	552.40	549.81	548.83	547.71	538.89	534.37	534.37	535.21	530.64	528.79	526.36	526.26	524.99	524.59	524.38	523.37	523.19	517.11	514.93	513.78
1020	552.40	549.81	548.83	547.71	538.89	534.37	534.37	535.22	530.63	528.78	526.36	526.26	524.99	524.58	524.37	523.37	523.18	517.11	514.93	513.78
1025	552.40	549.81	548.83	547.71	538.89	534.36	534.36	535.23	530.63	528.78	526.35	526.25	524.98	524.57	524.37	523.36	523.17	517.11	514.93	513.78
1030	552.40	549.81	548.83	547.71	538.88	534.36	534.36	535.24	530.62	528.78	526.35	526.25	524.97	524.56	524.36	523.35	523.17	517.11	514.93	513.78
1035	552.40	549.81	548.83	547.71	538.88	534.36	534.36	535.25	530.62	528.77	526.34	526.24	524.96	524.56	524.35	523.35	523.16	517.10	514.93	513.78
1040	552.40	549.81	548.83	547.71	538.88	534.35	534.35	535.27	530.61	528.77	526.34	526.24	524.95	524.55	524.34	523.34	523.15	517.10	514.93	513.78
1045	552.40	549.81	548.83	547.71	538.88	534.34	534.34	535.29	530.61	528.76	526.33	526.23	524.94	524.54	524.33	523.33	523.15	517.10	514.93	513.78
1050	552.40	549.81	548.83	547.71	538.88	534.34	534.34	535.32	530.60	528.76	526.33	526.23	524.94	524.53	524.32	523.33	523.14	517.09	514.93	513.78
1055	552.40	549.81	548.83	547.71	538.88	534.32	534.32	535.36	530.60	528.75	526.32	526.22	524.93	524.52	524.32	523.32	523.13	517.09	514.93	513.78
1060	552.40	549.81	548.83	547.71	538.87	534.29	534.29	535.42	530.59	528.75	526.32	526.22	524.92	524.51	524.31	523.31	523.13	517.09	514.93	513.78
1065	552.40	549.81	548.83	547.71	538.87	534.27	534.27	535.47	530.58	528.74	526.31	526.21	524.91	524.50	524.30	523.31	523.12	517.08	514.92	513.78
1070	552.40	549.81	548.83	547.71	538.87	534.27	534.27	535.50	530.57	528.74	526.30	526.20	524.90	524.49	524.29	523.30	523.11	517.08	514.92	513.78
1075	552.40	549.81	548.83	547.71	538.87	534.26	534.26	535.53	530.56	528.73	526.30	526.20	524.90	524.49	524.28	523.29	523.11	517.08	514.92	513.78
1080	552.40	549.81	548.83	547.71	538.87	534.26	534.26	535.55	530.54	528.72	526.29	526.19	524.89	524.48	524.27	523.29	523.10	517.07	514.92	513.77
1085	552.40	549.81	548.83	547.71	538.87	534.26	534.26	535.57	530.52	528.70	526.29	526.19	524.88	524.47	524.27	523.28	523.10	517.07	514.92	513.77
1090	552.40	549.81	548.83	547.71	538.87	534.26	534.26	535.58	530.50	528.68	526.28	526.18	524.87	524.46	524.26	523.27	523.09	517.06	514.91	513.77
1095	552.40	549.81	548.83	547.71	538.87	534.26	534.26	535.60	530.48	528.67	526.27	526.18	524.87	524.45	524.25	523.27	523.08	517.06	514.91	513.77
1100	552.40	549.81	548.83	547.71	538.87	534.25	534.25	535.61	530.47	528.65	526.26	526.17	524.86	524.44	524.24	523.26	523.08	517.06	514.91	513.77

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
1105	552.40	549.81	548.83	547.71	538.87	534.25	534.25	535.62	530.46	528.63	526.25	526.16	524.85	524.43	524.23	523.25	523.07	517.05	514.91	513.76
1110	552.40	549.81	548.83	547.71	538.87	534.25	534.25	535.64	530.45	528.62	526.24	526.15	524.84	524.43	524.22	523.25	523.06	517.05	514.90	513.76
1115	552.40	549.81	548.83	547.71	538.87	534.25	534.25	535.65	530.44	528.61	526.23	526.14	524.84	524.42	524.22	523.24	523.06	517.04	514.90	513.76
1120	552.40	549.81	548.83	547.71	538.87	534.25	534.25	535.66	530.44	528.60	526.22	526.13	524.83	524.41	524.21	523.23	523.05	517.04	514.90	513.76
1125	552.40	549.81	548.83	547.71	538.87	534.25	534.25	535.67	530.43	528.60	526.21	526.12	524.82	524.40	524.20	523.23	523.04	517.04	514.89	513.75
1130	552.40	549.81	548.83	547.71	538.87	534.25	534.25	535.68	530.43	528.59	526.20	526.11	524.81	524.39	524.19	523.22	523.04	517.03	514.89	513.75
1135	552.40	549.81	548.83	547.71	538.86	534.25	534.25	535.70	530.42	528.59	526.19	526.10	524.81	524.38	524.18	523.22	523.03	517.03	514.89	513.75
1140	552.40	549.81	548.83	547.71	538.86	534.25	534.25	535.71	530.42	528.58	526.18	526.10	524.80	524.38	524.17	523.21	523.02	517.02	514.88	513.75
1145	552.40	549.81	548.83	547.71	538.86	534.25	534.25	535.72	530.42	528.58	526.17	526.09	524.79	524.37	524.17	523.20	523.02	517.02	514.88	513.74
1150	552.40	549.81	548.83	547.71	538.86	534.25	534.25	535.73	530.42	528.58	526.16	526.08	524.78	524.36	524.16	523.20	523.01	517.01	514.88	513.74
1155	552.40	549.81	548.83	547.71	538.86	534.25	534.25	535.74	530.42	528.58	526.15	526.07	524.78	524.35	524.15	523.19	523.00	517.01	514.87	513.74
1160	552.40	549.81	548.83	547.71	538.86	534.25	534.25	535.75	530.42	528.58	526.15	526.06	524.77	524.34	524.14	523.18	523.00	517.01	514.87	513.73
1165	552.40	549.81	548.83	547.71	538.86	534.25	534.25	535.76	530.42	528.58	526.14	526.05	524.76	524.34	524.13	523.18	522.99	517.00	514.86	513.73
1170	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.77	530.42	528.57	526.13	526.05	524.75	524.33	524.13	523.17	522.98	517.00	514.86	513.73
1175	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.78	530.42	528.57	526.13	526.04	524.74	524.32	524.12	523.16	522.98	516.99	514.86	513.72
1180	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.79	530.42	528.57	526.12	526.03	524.74	524.31	524.11	523.16	522.97	516.99	514.85	513.72
1185	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.80	530.42	528.57	526.12	526.03	524.73	524.30	524.10	523.15	522.97	516.98	514.85	513.72
1190	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.81	530.42	528.57	526.11	526.02	524.72	524.29	524.09	523.15	522.96	516.98	514.84	513.71
1195	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.82	530.42	528.57	526.11	526.02	524.71	524.29	524.09	523.14	522.95	516.97	514.84	513.71
1200	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.83	530.42	528.58	526.10	526.01	524.70	524.28	524.08	523.13	522.95	516.97	514.83	513.70
1205	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.83	530.42	528.58	526.10	526.01	524.70	524.27	524.07	523.13	522.94	516.97	514.83	513.70
1210	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.84	530.42	528.58	526.10	526.01	524.69	524.26	524.06	523.12	522.93	516.96	514.82	513.70
1215	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.85	530.42	528.58	526.09	526.00	524.68	524.25	524.05	523.11	522.93	516.96	514.82	513.69
1220	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.86	530.42	528.58	526.09	526.00	524.67	524.24	524.04	523.11	522.92	516.95	514.81	513.69
1225	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.87	530.42	528.58	526.09	526.00	524.66	524.24	524.04	523.10	522.92	516.95	514.81	513.68

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
1230	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.88	530.42	528.58	526.09	525.99	524.66	524.23	524.03	523.09	522.91	516.94	514.80	513.68
1235	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.89	530.42	528.58	526.08	525.99	524.65	524.22	524.02	523.09	522.90	516.94	514.80	513.68
1240	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.89	530.42	528.58	526.08	525.99	524.64	524.21	524.01	523.08	522.90	516.93	514.80	513.67
1245	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.90	530.43	528.58	526.08	525.99	524.63	524.20	524.00	523.07	522.89	516.93	514.79	513.67
1250	552.40	549.81	548.83	547.71	538.86	534.26	534.26	535.91	530.43	528.58	526.08	525.99	524.63	524.19	523.99	523.07	522.88	516.93	514.79	513.67
1255	552.40	549.81	548.83	547.71	538.86	534.27	534.27	535.92	530.43	528.58	526.08	525.98	524.62	524.18	523.99	523.06	522.88	516.92	514.78	513.66
1260	552.40	549.81	548.83	547.71	538.86	534.27	534.27	535.93	530.43	528.58	526.08	525.98	524.61	524.18	523.98	523.06	522.87	516.92	514.78	513.66
1265	552.40	549.81	548.83	547.71	538.86	534.27	534.27	535.93	530.43	528.58	526.08	525.98	524.60	524.17	523.97	523.05	522.86	516.91	514.77	513.65
1270	552.40	549.81	548.83	547.71	538.86	534.27	534.27	535.94	530.43	528.59	526.08	525.98	524.60	524.16	523.96	523.04	522.86	516.91	514.77	513.65
1275	552.40	549.81	548.83	547.71	538.86	534.27	534.27	535.95	530.43	528.59	526.07	525.98	524.59	524.15	523.95	523.04	522.85	516.90	514.76	513.65
1280	552.40	549.81	548.83	547.71	538.86	534.27	534.27	535.96	530.43	528.59	526.07	525.98	524.58	524.14	523.95	523.03	522.85	516.90	514.76	513.64
1285	552.40	549.81	548.83	547.71	538.86	534.27	534.27	535.96	530.43	528.59	526.07	525.98	524.58	524.13	523.94	523.02	522.84	516.89	514.75	513.64
1290	552.40	549.81	548.83	547.71	538.86	534.27	534.27	535.97	530.43	528.59	526.07	525.98	524.57	524.13	523.93	523.02	522.83	516.89	514.75	513.64
1295	552.40	549.81	548.83	547.71	538.86	534.27	534.27	535.98	530.44	528.59	526.07	525.98	524.56	524.12	523.92	523.01	522.83	516.88	514.75	513.63
1300	552.40	549.81	548.83	547.71	538.86	534.27	534.27	535.99	530.44	528.59	526.07	525.98	524.56	524.11	523.91	523.00	522.82	516.88	514.74	513.63
1305	552.40	549.81	548.83	547.71	538.86	534.27	534.27	535.99	530.44	528.59	526.07	525.98	524.55	524.10	523.90	523.00	522.81	516.87	514.74	513.62
1310	552.40	549.81	548.83	547.71	538.86	534.27	534.27	536.00	530.44	528.59	526.07	525.98	524.54	524.09	523.90	522.99	522.81	516.87	514.73	513.62
1315	552.40	549.81	548.83	547.71	538.86	534.27	534.27	536.01	530.44	528.59	526.07	525.98	524.54	524.08	523.89	522.98	522.80	516.86	514.73	513.62
1320	552.40	549.81	548.83	547.71	538.86	534.27	534.27	536.01	530.44	528.60	526.07	525.98	524.53	524.08	523.88	522.98	522.79	516.86	514.72	513.61
1325	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.02	530.44	528.60	526.07	525.98	524.53	524.07	523.87	522.97	522.79	516.85	514.72	513.61
1330	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.03	530.44	528.60	526.07	525.98	524.52	524.06	523.86	522.97	522.78	516.85	514.71	513.61
1335	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.03	530.44	528.60	526.08	525.98	524.52	524.05	523.86	522.96	522.78	516.84	514.71	513.60
1340	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.04	530.45	528.60	526.08	525.98	524.51	524.04	523.85	522.95	522.77	516.84	514.71	513.60
1345	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.04	530.45	528.60	526.08	525.98	524.51	524.04	523.84	522.95	522.76	516.83	514.70	513.59
1350	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.05	530.45	528.60	526.08	525.98	524.50	524.03	523.83	522.94	522.76	516.83	514.70	513.59

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
1355	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.06	530.45	528.60	526.08	525.98	524.50	524.02	523.82	522.94	522.75	516.83	514.69	513.59
1360	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.06	530.45	528.60	526.08	525.98	524.49	524.01	523.82	522.93	522.74	516.82	514.69	513.58
1365	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.07	530.45	528.60	526.08	525.98	524.49	524.01	523.81	522.92	522.74	516.82	514.68	513.58
1370	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.07	530.45	528.61	526.08	525.98	524.48	524.00	523.80	522.92	522.73	516.81	514.68	513.58
1375	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.08	530.45	528.61	526.08	525.98	524.48	523.99	523.79	522.91	522.73	516.81	514.67	513.57
1380	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.09	530.45	528.61	526.08	525.98	524.47	523.98	523.79	522.91	522.72	516.80	514.67	513.57
1385	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.09	530.45	528.61	526.08	525.98	524.47	523.98	523.78	522.90	522.71	516.80	514.66	513.57
1390	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.10	530.45	528.61	526.08	525.98	524.47	523.97	523.77	522.89	522.71	516.79	514.66	513.56
1395	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.10	530.46	528.61	526.08	525.98	524.46	523.96	523.76	522.89	522.70	516.79	514.66	513.56
1400	552.40	549.81	548.83	547.71	538.86	534.28	534.28	536.11	530.46	528.61	526.08	525.99	524.46	523.95	523.76	522.88	522.70	516.78	514.65	513.55
1405	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.11	530.46	528.61	526.09	525.99	524.46	523.95	523.75	522.88	522.69	516.78	514.65	513.55
1410	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.12	530.46	528.61	526.09	525.99	524.45	523.94	523.74	522.87	522.68	516.77	514.64	513.54
1415	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.12	530.46	528.61	526.09	525.99	524.45	523.93	523.73	522.87	522.68	516.77	514.64	513.54
1420	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.13	530.46	528.61	526.09	525.99	524.45	523.93	523.73	522.86	522.67	516.76	514.63	513.53
1425	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.13	530.46	528.62	526.09	525.99	524.44	523.92	523.72	522.85	522.67	516.76	514.63	513.53
1430	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.14	530.46	528.62	526.09	525.99	524.44	523.91	523.71	522.85	522.66	516.75	514.62	513.52
1435	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.14	530.46	528.62	526.09	525.99	524.44	523.91	523.71	522.84	522.66	516.75	514.62	513.52
1440	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.15	530.46	528.62	526.09	525.99	524.44	523.90	523.70	522.84	522.65	516.75	514.61	513.51
1445	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.15	530.46	528.62	526.09	525.99	524.43	523.89	523.69	522.83	522.65	516.74	514.61	513.51
1450	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.16	530.47	528.62	526.09	525.99	524.43	523.89	523.69	522.83	522.64	516.74	514.60	513.50
1455	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.16	530.47	528.62	526.09	525.99	524.43	523.88	523.68	522.82	522.64	516.73	514.60	513.50
1460	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.17	530.47	528.62	526.10	526.00	524.43	523.88	523.67	522.82	522.63	516.73	514.60	513.50
1465	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.17	530.47	528.62	526.10	526.00	524.42	523.87	523.67	522.81	522.62	516.72	514.59	513.49
1470	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.18	530.47	528.62	526.10	526.00	524.42	523.86	523.66	522.81	522.62	516.72	514.59	513.49
1475	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.18	530.47	528.62	526.10	526.00	524.42	523.86	523.66	522.80	522.61	516.71	514.58	513.48

T (min)	NA (m)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicollucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
1480	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.19	530.47	528.63	526.10	526.00	524.42	523.85	523.65	522.80	522.61	516.71	514.58	513.48
1485	552.40	549.81	548.83	547.71	538.86	534.29	534.29	536.19	530.47	528.63	526.10	526.00	524.42	523.85	523.64	522.79	522.60	516.71	514.57	513.47
1490	552.40	549.81	548.83	547.71	538.86	534.30	534.30	536.20	530.47	528.63	526.10	526.00	524.42	523.84	523.64	522.79	522.60	516.70	514.57	513.47
1495	552.40	549.81	548.83	547.71	538.86	534.30	534.30	536.20	530.47	528.63	526.10	526.00	524.41	523.84	523.63	522.78	522.59	516.70	514.57	513.47
1500	552.40	549.81	548.83	547.71	538.86	534.30	534.30	536.21	530.47	528.63	526.10	526.00	524.41	523.83	523.63	522.77	522.59	516.69	514.56	513.46

T (min)	VAZÕES (m <sup>3</sup> /s)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antônio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
0	40.0	40.0	40.0	40.0	40.0	40.0	90.0	50.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
5	40.0	40.0	40.0	40.0	40.0	40.0	90.0	50.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
10	41.3	41.2	40.5	40.5	40.7	42.3	102.3	88.7	94.6	96.2	90.6	92.2	95.9	92.6	88.6	90.0	99.4	92.1	95.3	94.1
15	41.7	41.1	40.6	40.5	40.7	38.5	111.4	80.2	94.2	95.3	93.1	91.2	97.3	92.3	89.2	90.3	96.4	91.7	95.5	94.1
20	41.5	41.2	40.7	40.5	40.7	36.9	122.8	81.5	95.0	94.6	94.6	91.5	97.2	92.9	90.2	89.9	94.8	91.4	96.1	94.3
25	41.0	41.3	40.8	40.6	40.8	38.2	128.6	81.2	96.6	94.9	94.7	91.9	97.0	93.2	90.8	89.9	93.7	91.3	96.0	94.6
30	40.6	41.3	40.9	40.6	40.9	40.5	126.7	77.9	99.1	95.9	94.5	92.2	96.6	93.4	91.3	90.0	93.0	91.2	95.7	95.0
35	40.3	41.1	41.0	40.6	41.0	42.1	120.8	73.7	102.9	97.8	94.8	92.4	96.1	93.6	91.6	90.1	92.6	91.2	95.2	95.3
40	40.1	40.9	41.0	40.7	41.0	42.6	114.2	70.2	107.7	101.0	95.7	92.7	95.5	93.7	91.8	90.3	92.4	91.3	94.8	95.4
45	40.0	40.6	41.0	40.7	41.1	42.5	108.5	67.2	112.4	105.7	97.5	93.2	95.0	93.8	92.1	90.5	92.2	91.5	94.4	95.4
50	40.0	40.4	41.0	40.8	41.1	42.2	104.0	64.6	115.7	110.4	100.4	94.0	94.6	93.9	92.3	90.7	92.1	91.8	94.1	95.2
55	40.0	40.3	40.9	40.8	41.0	41.9	100.5	62.1	116.9	114.3	104.3	95.2	94.2	94.0	92.4	90.9	92.0	92.1	93.8	95.0
60	40.0	40.2	40.8	40.9	41.0	41.8	97.5	59.6	116.3	116.1	108.4	96.8	93.8	94.1	92.6	91.0	92.0	92.4	93.5	94.8
65	40.1	40.2	40.7	40.9	40.9	41.7	94.5	57.1	114.5	116.2	111.6	98.8	93.6	94.1	92.7	91.2	92.0	92.6	93.2	94.5
70	40.2	40.2	40.6	40.9	40.9	41.8	91.2	54.2	111.9	114.9	113.5	100.9	93.3	94.1	92.8	91.4	92.0	92.9	93.0	94.2
75	40.4	40.2	40.5	40.9	40.9	42.3	86.2	50.1	109.0	112.7	113.9	102.7	93.2	94.0	92.9	91.6	92.0	93.1	92.8	93.9
80	40.6	40.2	40.5	40.8	40.8	44.3	74.8	41.3	106.0	110.0	113.1	104.1	93.1	94.0	93.0	91.7	92.1	93.3	92.7	93.7
85	41.0	40.3	40.4	40.8	40.8	42.7	70.6	34.5	102.9	107.3	111.4	105.0	93.0	94.0	93.1	91.9	92.1	93.6	92.6	93.4
90	41.6	40.5	40.4	40.7	40.8	41.8	68.6	30.7	99.6	104.2	109.3	105.5	93.0	93.9	93.1	92.0	92.2	93.7	92.5	93.2
95	42.9	40.8	40.4	40.6	40.7	41.3	67.8	29.1	95.9	101.2	107.0	105.6	93.1	93.8	93.1	92.1	92.2	93.9	92.5	93.1
100	44.9	41.2	40.4	40.6	40.7	41.1	67.4	28.5	91.6	97.9	104.4	105.3	93.2	93.8	93.2	92.2	92.2	94.0	92.5	92.9
105	47.7	42.1	40.5	40.5	40.7	41.0	67.4	28.4	87.2	94.2	101.6	104.6	93.4	93.7	93.2	92.3	92.3	94.2	92.5	92.8
110	51.3	43.5	40.7	40.5	40.7	40.9	67.5	28.4	83.1	90.1	98.7	103.7	93.7	93.6	93.2	92.4	92.4	94.3	92.5	92.7
115	55.8	45.6	41.0	40.5	40.7	40.9	67.6	28.5	79.6	86.0	95.3	102.5	94.1	93.6	93.2	92.5	92.4	94.4	92.6	92.7

T (min)	VAZÕES (m³/s)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
120	61.0	48.4	41.5	40.5	40.7	40.9	67.8	28.7	76.6	82.2	91.8	101.0	94.6	93.5	93.2	92.6	92.5	94.4	92.7	92.6
125	67.3	51.5	42.4	40.6	40.7	40.8	68.0	28.9	74.2	78.9	88.3	99.2	95.1	93.5	93.2	92.7	92.5	94.5	92.8	92.6
130	74.9	55.7	43.7	40.8	40.7	40.8	68.2	29.1	72.4	76.1	84.9	97.2	95.6	93.4	93.2	92.7	92.6	94.5	92.9	92.6
135	84.8	61.6	45.5	41.1	40.7	40.8	68.4	29.2	71.1	73.9	81.8	95.2	96.2	93.4	93.2	92.8	92.6	94.6	93.0	92.7
140	96.1	68.8	48.0	41.7	40.7	40.8	68.6	29.4	70.1	72.2	79.1	93.1	96.7	93.4	93.2	92.8	92.7	94.6	93.1	92.7
145	106.9	77.6	51.3	42.5	40.7	40.8	68.8	29.6	69.5	70.9	76.8	91.1	97.2	93.4	93.2	92.8	92.7	94.6	93.2	92.8
150	117.9	87.2	55.8	43.6	40.7	40.8	69.0	29.8	69.0	70.0	75.1	89.2	97.6	93.5	93.2	92.9	92.7	94.6	93.3	92.9
155	130.1	97.8	61.5	45.2	40.7	40.7	69.2	29.9	68.8	69.4	73.6	87.3	98.0	93.6	93.2	92.9	92.7	94.5	93.4	93.0
160	143.0	109.6	68.8	47.6	40.7	40.7	69.4	30.1	68.7	69.0	72.5	85.6	98.2	93.7	93.3	92.9	92.8	94.5	93.6	93.1
165	155.9	121.7	77.8	50.8	40.7	40.7	69.6	30.2	68.6	68.8	71.7	84.1	98.4	93.8	93.3	93.0	92.8	94.5	93.7	93.2
170	168.3	134.2	88.5	55.1	40.7	40.7	69.7	30.4	68.7	68.7	71.1	82.7	98.4	93.9	93.4	93.0	92.8	94.4	93.8	93.3
175	180.8	147.6	100.4	60.6	40.7	40.7	69.9	30.6	68.8	68.7	70.7	81.4	98.4	94.1	93.5	93.0	92.9	94.4	93.8	93.4
180	194.1	160.4	113.5	67.6	40.7	40.7	70.1	30.8	68.9	68.7	70.4	80.2	98.2	94.2	93.6	93.1	92.9	94.3	93.9	93.5
185	207.6	173.4	127.6	76.9	40.7	40.7	70.3	30.9	69.0	68.8	70.2	79.2	97.9	94.4	93.7	93.1	92.9	94.2	94.0	93.6
190	221.6	187.3	141.7	88.3	40.7	40.6	70.5	31.1	69.2	68.9	70.0	78.3	97.6	94.5	93.8	93.2	93.0	94.2	94.1	93.7
195	235.5	201.4	156.5	101.1	40.7	40.6	70.7	31.3	69.3	69.1	70.0	77.5	97.1	94.7	93.9	93.2	93.0	94.1	94.1	93.8
200	249.2	215.2	172.2	115.6	40.7	40.6	70.8	31.4	69.5	69.2	70.0	76.8	96.5	94.8	94.0	93.3	93.0	94.0	94.2	93.8
205	262.2	229.1	187.5	131.8	40.7	40.6	71.0	31.6	69.7	69.4	70.0	76.1	95.9	95.0	94.1	93.4	93.1	94.0	94.2	93.9
210	274.6	243.3	202.6	148.0	40.8	40.6	71.2	31.8	69.8	69.5	70.0	75.6	95.2	95.1	94.2	93.4	93.1	93.9	94.2	94.0
215	286.3	256.6	217.9	164.0	40.9	40.6	71.4	32.0	70.0	69.7	70.1	75.1	94.5	95.2	94.4	93.5	93.2	93.8	94.2	94.0
220	297.6	269.0	232.9	180.7	41.0	40.6	71.6	32.1	70.2	69.9	70.2	74.7	93.8	95.2	94.5	93.6	93.3	93.7	94.2	94.1
225	308.3	281.0	247.1	196.8	41.2	40.6	71.8	32.3	70.4	70.1	70.3	74.3	93.0	95.3	94.5	93.7	93.3	93.7	94.2	94.1
230	318.5	292.7	260.6	212.6	41.6	40.6	72.0	32.5	70.5	70.2	70.4	74.0	92.2	95.3	94.6	93.8	93.4	93.6	94.2	94.2
235	327.7	304.0	273.5	227.3	42.1	40.6	72.2	32.6	70.7	70.4	70.5	73.7	91.4	95.2	94.7	93.8	93.5	93.6	94.2	94.2
240	336.0	314.3	285.8	242.1	43.0	40.7	72.3	32.8	70.9	70.6	70.6	73.4	90.7	95.2	94.7	93.9	93.5	93.5	94.2	94.2

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T (min)	VAZÕES (m³/s)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
245	343.7	323.6	297.6	256.1	44.2	40.7	72.5	33.0	71.1	70.8	70.7	73.2	89.9	95.1	94.7	94.0	93.6	93.4	94.1	94.2
250	350.7	332.1	308.4	269.6	46.2	40.7	72.7	33.1	71.3	71.0	70.9	73.1	89.1	95.0	94.7	94.1	93.6	93.4	94.1	94.2
255	357.3	340.0	318.4	282.1	49.2	40.7	72.9	33.3	71.5	71.2	71.0	72.9	88.4	94.9	94.7	94.1	93.7	93.3	94.1	94.2
260	363.2	347.4	327.5	293.4	53.9	40.7	73.1	33.5	71.7	71.3	71.2	72.8	87.6	94.7	94.6	94.2	93.8	93.3	94.0	94.2
265	367.7	354.2	336.0	304.3	61.1	40.8	73.4	33.7	71.9	71.5	71.3	72.7	86.9	94.5	94.6	94.2	93.9	93.3	94.0	94.1
270	370.9	359.8	343.7	314.4	71.2	40.8	73.7	33.9	72.0	71.7	71.5	72.6	86.2	94.3	94.5	94.3	93.9	93.2	93.9	94.1
275	373.2	364.2	350.5	323.8	84.5	41.0	74.1	34.1	72.2	71.9	71.6	72.6	85.5	94.0	94.4	94.3	93.9	93.2	93.9	94.1
280	374.7	367.7	356.1	332.3	102.1	41.1	74.6	34.5	72.4	72.1	71.8	72.5	84.8	93.8	94.3	94.3	94.0	93.2	93.8	94.0
285	375.6	370.3	360.8	339.8	121.2	41.5	75.4	34.9	72.6	72.3	71.9	72.5	84.1	93.5	94.1	94.3	94.0	93.1	93.8	94.0
290	375.8	372.1	364.6	346.2	142.7	42.0	76.5	35.5	72.9	72.5	72.1	72.5	83.5	93.2	94.0	94.3	94.1	93.1	93.7	94.0
295	375.1	373.1	367.5	351.7	164.7	42.9	78.3	36.3	73.1	72.7	72.3	72.5	82.9	92.9	93.8	94.3	94.1	93.1	93.7	93.9
300	373.7	373.4	369.6	356.3	185.6	43.1	83.9	39.8	73.5	73.0	72.5	72.5	82.3	92.6	93.6	94.2	94.1	93.1	93.7	93.9
305	371.7	372.9	370.9	360.0	204.9	30.2	142.9	97.6	73.9	73.3	72.7	72.6	81.8	92.2	93.4	94.2	94.1	93.1	93.6	93.8
310	369.4	371.8	371.4	362.8	223.2	25.5	234.7	167.0	74.4	73.6	72.9	72.6	81.2	91.9	93.2	94.1	94.1	93.1	93.6	93.8
315	366.7	370.2	371.1	365.0	240.5	61.5	244.0	153.1	75.9	74.1	73.1	72.7	80.7	91.6	93.0	94.0	94.1	93.0	93.5	93.7
320	363.7	368.1	370.3	366.3	255.7	83.5	226.4	132.1	83.6	75.2	73.5	72.8	80.2	91.2	92.8	93.9	94.0	93.0	93.5	93.7
325	360.1	365.6	368.9	366.9	269.7	101.5	225.3	118.9	108.0	80.3	73.9	73.0	79.8	90.9	92.5	93.8	94.0	93.0	93.4	93.6
330	356.1	362.6	367.1	366.9	283.2	123.0	234.4	109.1	143.5	97.1	75.3	73.2	79.3	90.5	92.3	93.7	93.9	93.0	93.4	93.6
335	351.7	359.1	364.7	366.2	295.3	146.7	248.5	101.1	172.1	131.7	80.9	73.7	78.9	90.1	92.0	93.6	93.8	93.0	93.4	93.6
340	347.1	355.3	361.9	365.0	305.9	170.7	264.9	94.4	193.3	162.4	97.3	75.4	78.5	89.8	91.7	93.4	93.8	93.1	93.3	93.5
345	342.3	351.2	358.7	363.3	315.3	194.3	281.8	88.5	209.7	188.6	126.1	80.2	78.1	89.4	91.4	93.3	93.7	93.1	93.3	93.5
350	337.1	346.8	355.1	361.1	323.6	215.9	297.7	83.4	224.4	207.2	155.7	89.0	77.8	89.0	91.2	93.1	93.6	93.1	93.3	93.4
355	331.3	342.1	351.2	358.5	330.9	236.1	313.3	79.4	239.3	222.8	180.4	100.7	77.4	88.7	90.9	92.9	93.5	93.1	93.2	93.4
360	325.1	336.8	347.0	355.5	337.3	254.5	328.0	76.1	255.0	238.0	200.0	114.2	77.2	88.3	90.6	92.7	93.3	93.1	93.2	93.4
365	318.4	331.1	342.3	352.1	342.7	271.0	341.4	73.2	271.9	254.7	216.7	129.5	76.9	88.0	90.3	92.5	93.2	93.1	93.2	93.3

T (min)	VAZÕES (m³/s)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
370	311.5	325.1	337.3	348.3	347.1	285.3	353.2	70.6	288.5	272.2	233.1	144.6	76.6	87.6	90.0	92.3	93.0	93.2	93.2	93.3
375	304.4	318.7	331.8	344.2	350.6	297.9	363.7	68.3	304.3	289.4	250.3	160.4	76.5	87.2	89.7	92.1	92.9	93.2	93.2	93.3
380	297.1	312.0	326.0	339.7	353.3	309.1	372.9	66.2	319.0	305.2	267.7	176.6	76.4	86.9	89.4	91.9	92.7	93.2	93.2	93.3
385	290.0	305.1	319.8	334.7	355.1	318.7	380.9	64.3	332.6	319.9	284.3	194.9	76.5	86.6	89.1	91.6	92.6	93.2	93.1	93.2
390	283.1	298.2	313.4	329.4	356.3	326.9	387.7	62.6	345.0	333.4	299.8	213.3	76.9	86.2	88.8	91.4	92.4	93.3	93.1	93.2
395	276.2	291.4	306.8	323.8	356.8	333.8	393.3	61.1	356.6	345.9	314.3	231.0	77.7	85.9	88.5	91.1	92.2	93.3	93.1	93.2
400	269.5	284.6	300.2	318.0	356.6	339.4	397.8	59.8	366.8	357.7	327.8	248.3	79.0	85.6	88.2	90.9	92.0	93.3	93.1	93.2
405	263.0	278.0	293.6	312.0	355.9	343.9	401.4	58.6	375.5	367.8	340.5	265.7	80.9	85.3	87.9	90.6	91.8	93.3	93.1	93.2
410	256.4	271.5	287.1	305.9	354.7	347.4	404.1	57.6	382.8	376.5	351.9	282.1	83.7	85.0	87.6	90.4	91.6	93.4	93.1	93.2
415	249.9	265.0	280.7	299.7	353.0	350.0	406.1	56.7	388.9	383.7	361.9	297.6	87.8	84.7	87.3	90.1	91.4	93.4	93.1	93.2
420	243.4	258.5	274.4	293.3	350.8	351.8	407.3	55.9	394.0	389.8	370.4	311.5	93.4	84.5	87.1	89.9	91.2	93.4	93.2	93.2
425	236.9	252.1	268.0	287.1	348.2	352.9	407.9	55.3	398.0	394.7	377.7	324.3	100.6	84.3	86.8	89.6	90.9	93.4	93.2	93.2
430	230.4	245.7	261.8	280.9	345.2	353.2	407.9	54.7	401.1	398.5	383.8	335.6	110.0	84.3	86.6	89.3	90.7	93.5	93.2	93.2
435	224.0	239.3	255.5	274.6	341.8	353.0	407.3	54.2	403.4	401.5	388.9	345.9	121.2	84.3	86.4	89.1	90.5	93.5	93.2	93.2
440	217.7	232.8	249.3	268.4	338.1	352.1	406.2	53.7	405.0	403.7	393.0	356.2	134.5	84.5	86.2	88.8	90.2	93.5	93.2	93.2
445	211.7	226.6	243.0	262.5	334.1	350.8	404.6	53.4	405.8	405.1	396.4	365.0	149.3	84.9	86.2	88.6	90.0	93.5	93.2	93.2
450	206.0	220.5	236.7	256.5	329.7	348.9	402.6	53.0	406.0	405.8	399.0	372.3	165.3	85.6	86.2	88.3	89.8	93.5	93.2	93.2
455	200.3	214.6	230.6	250.5	325.2	346.7	400.1	52.8	405.6	405.9	400.7	378.2	182.1	86.6	86.4	88.1	89.6	93.5	93.3	93.2
460	194.8	208.8	224.6	244.5	320.5	344.0	397.3	52.5	404.7	405.4	401.7	382.9	199.0	88.0	86.7	87.9	89.3	93.5	93.3	93.2
465	189.4	203.2	218.8	238.5	315.5	340.9	394.2	52.3	403.3	404.4	402.1	386.5	216.2	89.9	87.2	87.8	89.1	93.5	93.3	93.2
470	184.2	197.8	213.1	232.6	310.4	337.6	390.7	52.1	401.5	402.9	401.8	389.2	232.6	92.3	88.0	87.7	88.9	93.5	93.3	93.2
475	179.2	192.4	207.5	226.9	305.2	333.9	387.0	51.9	399.2	401.0	401.0	391.1	247.0	95.4	89.1	87.7	88.8	93.5	93.3	93.3
480	174.4	187.2	202.1	221.2	299.9	330.0	383.0	51.8	396.6	398.6	399.7	392.3	261.8	99.2	90.6	87.7	88.7	93.5	93.4	93.3
485	169.9	182.3	196.9	215.6	294.5	325.9	378.8	51.6	393.6	395.9	398.0	392.9	275.8	103.6	92.4	87.9	88.6	93.5	93.4	93.3
490	165.5	177.5	191.9	210.2	289.1	321.5	374.3	51.5	390.3	392.9	395.9	392.9	288.1	108.7	94.7	88.2	88.6	93.5	93.4	93.3

T (min)	VAZÕES (m³/s)																			
	Sítio São Benedicto	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Constru- ções	Ponte da Estrada Rio Acima	Ponte a montante da Confluên- cia	Confluên- cia com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/R ua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn . Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
495	161.2	172.9	187.0	204.9	283.5	317.0	369.7	51.3	386.7	389.6	393.4	392.4	299.7	114.5	97.5	88.7	88.7	93.4	93.4	93.3
500	157.0	168.5	182.3	199.7	278.0	312.3	364.9	51.1	382.9	385.9	390.5	391.3	309.9	120.9	100.9	89.4	88.9	93.4	93.4	93.3
505	153.0	164.1	177.7	194.8	272.5	307.6	360.0	51.0	378.8	382.1	387.3	389.8	319.4	128.1	104.7	90.4	89.2	93.3	93.4	93.4
510	149.0	159.9	173.2	190.2	266.9	302.7	355.0	50.9	374.5	378.1	383.9	387.8	327.0	135.7	109.0	91.6	89.6	93.3	93.4	93.4
515	145.0	155.9	168.9	185.7	261.2	297.7	349.9	50.7	370.1	373.8	380.2	385.5	333.9	143.8	113.8	93.1	90.2	93.2	93.4	93.4
520	141.1	151.9	164.6	181.2	255.8	292.7	344.7	50.6	365.5	369.3	376.3	382.9	339.8	152.3	119.3	94.9	91.1	93.2	93.4	93.4
525	137.3	147.9	160.5	176.8	250.3	287.7	339.6	50.4	360.7	364.7	372.2	380.0	344.7	161.1	125.2	97.1	92.1	93.1	93.4	93.4
530	133.5	144.0	156.4	172.4	245.0	282.6	334.4	50.3	355.9	360.0	367.9	376.7	348.6	170.0	131.3	99.7	93.4	93.0	93.4	93.4
535	129.8	140.2	152.5	168.2	239.7	277.5	329.2	50.2	350.9	355.2	363.4	373.3	351.7	178.7	137.8	102.7	95.0	92.9	93.4	93.4
540	126.2	136.5	148.6	164.0	234.5	272.3	323.9	50.1	346.0	350.3	358.9	369.6	354.0	187.4	144.7	106.0	96.9	92.8	93.4	93.4
545	122.8	132.8	144.8	159.9	229.4	267.1	318.5	50.0	341.1	345.5	354.2	365.8	355.8	196.0	151.9	109.7	99.0	92.8	93.4	93.4
550	119.4	129.2	141.2	155.9	224.4	261.9	313.2	49.9	336.2	340.6	349.5	361.8	357.0	204.1	159.1	114.0	101.5	92.7	93.4	93.4
555	116.2	125.8	137.6	152.0	219.5	256.8	307.9	49.8	331.2	335.8	344.8	357.8	357.8	212.0	166.3	118.6	104.4	92.6	93.4	93.4
560	113.0	122.4	134.2	148.2	214.7	251.8	302.8	49.7	326.1	330.8	340.1	353.6	358.0	219.5	173.5	123.6	107.6	92.4	93.3	93.4
565	109.9	119.2	130.9	144.5	210.0	246.9	297.7	49.5	321.0	325.7	335.3	349.4	357.8	226.4	180.5	129.0	111.2	92.3	93.3	93.4
570	106.9	115.9	127.7	141.0	205.4	242.0	292.6	49.4	315.8	320.6	330.4	345.0	357.1	232.7	187.2	134.7	115.2	92.2	93.3	93.4
575	104.0	112.8	124.4	137.7	201.0	237.2	287.7	49.4	310.7	315.5	325.4	340.5	356.1	238.4	193.6	140.6	119.5	92.1	93.2	93.4
580	101.2	109.9	121.2	134.5	196.6	232.4	282.8	49.3	305.5	310.3	320.4	336.0	354.8	243.8	199.9	146.7	124.1	92.0	93.2	93.3
585	98.4	107.0	118.1	131.3	192.3	227.7	278.0	49.2	300.5	305.2	315.4	331.4	353.1	248.7	205.8	152.8	129.3	91.9	93.1	93.3
590	95.7	104.2	115.1	128.1	188.2	223.1	273.3	49.1	295.5	300.2	310.4	326.7	351.2	252.9	211.6	159.2	134.4	91.8	93.0	93.3
595	93.1	101.4	112.2	124.9	184.0	218.6	268.7	49.1	290.6	295.2	305.4	322.0	349.0	256.8	216.9	165.7	140.0	91.7	93.0	93.2
600	90.5	98.7	109.3	121.8	180.1	214.2	264.2	49.1	285.8	290.3	300.5	317.4	346.5	260.3	222.0	172.0	145.8	91.6	92.9	93.2
605	88.0	96.1	106.5	118.8	176.2	209.9	259.9	49.1	281.1	285.5	295.6	312.8	343.9	263.5	226.7	178.2	152.0	91.5	92.8	93.1
610	85.5	93.5	103.7	115.8	172.4	205.6	255.5	49.1	276.5	280.9	290.9	308.1	341.1	266.1	231.1	184.2	158.0	91.4	92.8	93.1
615	83.3	91.0	101.1	112.9	168.7	201.5	251.3	49.1	271.9	276.2	286.2	303.5	338.1	268.4	235.3	190.2	163.9	91.4	92.7	93.0

T (min)	VAZÕES (m³/s)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
620	81.0	88.6	98.6	110.1	165.1	197.3	247.3	49.2	267.4	271.7	281.6	299.0	335.0	270.6	239.1	196.0	169.7	91.4	92.6	92.9
625	78.8	86.2	96.2	107.3	161.6	193.3	243.3	49.3	263.1	267.3	277.0	294.5	331.8	272.4	242.7	201.4	175.4	91.4	92.5	92.9
630	76.6	84.0	93.8	104.6	158.1	189.3	239.4	49.4	258.8	263.0	272.7	290.0	328.5	273.9	246.1	206.8	180.8	91.5	92.4	92.8
635	74.5	81.7	91.5	102.0	154.6	185.4	235.6	49.4	254.7	258.8	268.3	285.6	325.1	275.2	249.2	211.6	186.3	91.6	92.3	92.7
640	72.5	79.5	89.3	99.5	151.3	181.6	231.8	49.5	250.7	254.7	264.0	281.2	321.6	276.3	252.0	216.4	191.5	91.7	92.2	92.6
645	70.4	77.4	87.1	97.1	148.0	177.9	228.0	49.5	246.8	250.7	259.9	276.9	318.0	277.2	254.4	221.1	196.8	92.0	92.2	92.5
650	68.5	75.3	84.9	94.9	144.8	174.3	224.4	49.6	243.0	246.9	255.8	272.7	314.4	277.9	256.8	225.4	202.1	92.3	92.1	92.5
655	66.5	73.3	82.7	92.8	141.6	170.9	221.0	49.6	239.2	243.2	251.9	268.5	310.8	278.6	258.8	229.5	207.4	92.7	92.0	92.4
660	64.6	71.4	80.6	90.7	138.7	167.4	217.6	49.7	235.5	239.5	248.1	264.4	307.2	278.9	260.6	233.2	212.1	93.3	91.9	92.3
665	62.7	69.4	78.6	88.7	135.7	164.0	214.3	49.7	231.9	235.9	244.4	260.5	303.5	279.0	262.2	236.7	216.5	94.0	91.9	92.2
670	60.9	67.5	76.6	86.6	132.8	160.7	210.9	49.7	228.3	232.2	240.8	257.0	299.9	279.0	263.6	240.0	220.6	94.9	91.9	92.1
675	59.1	65.7	74.7	84.6	130.1	157.5	207.7	49.7	224.8	228.7	237.1	253.4	296.3	279.0	264.8	242.9	224.4	95.9	91.9	92.1
680	57.4	63.9	72.8	82.6	127.3	154.3	204.5	49.8	221.3	225.1	233.5	249.9	292.7	278.8	265.7	245.7	228.0	97.2	91.9	92.0
685	55.8	62.1	70.9	80.6	124.6	151.3	201.5	49.8	217.9	221.7	230.0	246.3	289.1	278.3	266.5	248.2	231.4	98.7	92.0	92.0
690	54.3	60.4	69.1	78.7	122.0	148.3	198.5	49.8	214.6	218.3	226.6	242.8	285.6	277.8	267.2	250.4	234.5	100.4	92.1	92.0
695	52.9	58.8	67.3	76.8	119.4	145.4	195.6	49.8	211.3	215.0	223.2	239.3	282.2	277.2	267.8	252.5	237.5	102.5	92.3	92.0
700	51.5	57.2	65.6	74.9	116.8	142.5	192.7	49.8	208.2	211.7	219.8	235.9	278.8	276.5	268.2	254.3	240.3	105.0	92.5	92.0
705	50.4	55.8	63.9	73.0	114.4	139.6	189.9	49.9	205.1	208.6	216.5	232.5	275.4	275.7	268.5	256.0	242.9	107.8	92.8	92.1
710	49.2	54.4	62.4	71.2	111.9	136.8	187.1	50.0	202.2	205.5	213.3	229.2	272.1	274.9	268.7	257.4	245.4	110.9	93.2	92.2
715	48.2	53.0	60.9	69.5	109.6	134.1	184.4	50.0	199.2	202.5	210.2	225.9	268.9	274.0	268.8	258.8	247.5	114.3	93.7	92.4
720	47.2	51.8	59.5	67.8	107.2	131.5	181.8	50.0	196.3	199.6	207.1	222.6	265.7	273.1	268.7	259.9	249.4	118.1	94.4	92.6
725	46.4	50.6	58.1	66.1	104.9	128.9	179.2	50.1	193.5	196.7	204.1	219.6	262.5	272.1	268.6	260.8	251.3	122.1	95.2	92.9
730	45.6	49.5	56.7	64.5	102.7	126.4	176.7	50.1	190.7	193.8	201.2	216.5	259.4	271.0	268.3	261.7	253.0	126.4	96.2	93.3
735	45.0	48.6	55.4	63.0	100.6	123.9	174.2	50.1	187.9	191.0	198.3	213.5	256.3	269.9	268.0	262.5	254.5	130.9	97.3	93.8
740	44.4	47.7	54.1	61.5	98.4	121.5	171.8	50.1	185.3	188.3	195.5	210.7	253.3	268.7	267.6	263.1	255.9	135.6	98.7	94.5

T (min)	VAZÕES (m³/s)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
745	43.9	46.9	52.9	60.2	96.4	119.1	169.4	50.1	182.8	185.7	192.8	207.8	250.4	267.5	267.1	263.6	257.1	140.6	100.3	95.3
750	43.4	46.3	51.8	58.9	94.5	116.8	167.1	50.1	180.3	183.1	190.1	205.0	247.4	266.3	266.5	264.0	258.2	145.7	102.2	96.2
755	43.0	45.5	50.8	57.7	92.5	114.5	164.8	50.0	177.9	180.6	187.5	202.2	244.6	265.0	265.9	264.2	259.2	150.8	104.3	97.4
760	42.7	44.8	49.8	56.5	90.7	112.3	162.5	50.0	175.6	178.3	184.9	199.4	241.8	263.7	265.2	264.3	260.0	155.8	106.5	98.7
765	42.4	44.3	48.9	55.4	88.8	110.1	160.3	50.1	173.2	176.0	182.5	196.8	239.0	262.4	264.4	264.4	260.6	160.9	109.0	100.2
770	42.1	43.9	48.0	54.3	87.1	107.9	158.1	50.1	170.9	173.6	180.1	194.1	236.2	261.1	263.6	264.3	261.1	166.1	111.9	102.0
775	41.8	43.4	47.3	53.2	85.3	105.8	156.0	50.1	168.5	171.3	177.7	191.6	233.5	259.7	262.7	264.1	261.5	171.1	114.9	104.0
780	41.6	43.1	46.5	52.2	83.6	103.7	154.0	50.1	166.3	169.0	175.3	189.0	230.8	258.3	261.8	263.9	261.7	176.1	118.2	106.2
785	41.4	42.7	45.9	51.2	81.9	101.8	152.0	50.1	164.1	166.7	173.0	186.5	228.2	256.8	260.8	263.5	261.8	180.9	121.9	109.1
790	41.3	42.4	45.3	50.3	80.3	99.9	150.1	50.1	161.9	164.5	170.7	184.1	225.6	255.4	259.8	263.1	261.9	185.7	125.7	112.0
795	41.1	42.2	44.8	49.4	78.7	98.0	148.2	50.1	159.8	162.4	168.4	181.7	223.0	253.9	258.8	262.6	261.8	190.3	129.7	115.1
800	41.0	41.9	44.3	48.6	77.1	96.3	146.4	50.1	157.7	160.4	166.3	179.3	220.5	252.5	257.7	262.0	261.6	194.8	133.7	118.5
805	40.9	41.7	43.9	47.8	75.6	94.5	144.6	50.0	155.7	158.4	164.1	177.0	218.0	250.9	256.5	261.4	261.4	199.0	138.0	122.1
810	40.8	41.5	43.5	47.1	74.0	92.8	142.9	50.0	153.7	156.4	162.1	174.7	215.6	249.4	255.4	260.7	261.1	203.2	142.2	126.0
815	40.7	41.4	43.1	46.5	72.5	91.1	141.1	50.0	151.8	154.4	160.1	172.5	213.2	247.9	254.2	260.0	260.6	207.1	146.8	129.9
820	40.6	41.2	42.8	45.9	71.0	89.4	139.5	50.0	149.9	152.4	158.0	170.4	210.8	246.3	252.9	259.2	260.1	211.0	151.2	134.0
825	40.5	41.1	42.5	45.3	69.6	87.8	137.8	50.0	148.1	150.5	156.1	168.2	208.4	244.8	251.6	258.3	259.6	214.5	155.8	138.3
830	40.5	40.9	42.2	44.8	68.2	86.1	136.1	49.9	146.3	148.7	154.1	166.1	206.1	243.2	250.4	257.4	259.0	217.8	161.0	142.8
835	40.4	40.8	42.0	44.4	66.8	84.6	134.5	49.9	144.5	146.9	152.2	164.1	203.8	241.8	249.0	256.4	258.3	220.9	166.4	147.3
840	40.4	40.8	41.8	43.9	65.5	83.0	133.0	49.9	142.8	145.1	150.3	162.0	201.5	240.2	247.6	255.4	257.5	223.9	172.0	152.1
845	40.3	40.7	41.6	43.5	64.2	81.5	131.4	49.9	141.1	143.4	148.5	160.1	199.2	238.5	246.2	254.4	256.7	226.8	176.6	157.3
850	40.3	40.6	41.4	43.2	63.0	80.0	129.8	49.9	139.4	141.7	146.7	158.2	197.0	236.9	244.8	253.3	255.9	229.4	181.5	162.5
855	40.2	40.5	41.3	42.9	61.9	78.5	128.3	49.8	137.8	140.0	145.0	156.3	194.8	235.3	243.4	252.2	254.9	231.8	185.5	167.6
860	40.2	40.5	41.2	42.6	60.7	77.1	126.9	49.8	136.2	138.4	143.3	154.4	192.6	233.7	241.9	251.0	254.0	234.1	189.8	172.6
865	40.2	40.4	41.0	42.3	59.6	75.7	125.5	49.9	134.6	136.7	141.6	152.5	190.5	232.0	240.5	249.8	253.0	236.2	194.0	177.3

T (min)	VAZÕES (m³/s)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
870	40.2	40.4	40.9	42.1	58.6	74.3	124.1	49.9	133.0	135.1	139.9	150.8	188.4	230.4	239.0	248.5	251.9	238.2	197.7	182.5
875	40.2	40.3	40.8	41.9	57.6	72.9	122.7	49.9	131.5	133.6	138.3	149.1	186.5	228.7	237.5	247.2	250.8	240.0	201.4	187.1
880	40.1	40.3	40.7	41.7	56.7	71.5	121.3	49.9	130.0	132.0	136.7	147.3	184.5	227.1	236.0	245.9	249.7	241.6	205.1	191.4
885	40.1	40.3	40.7	41.5	55.8	70.3	120.0	49.9	128.6	130.6	135.1	145.7	182.6	225.5	234.5	244.5	248.5	243.1	208.6	195.5
890	40.1	40.2	40.6	41.4	54.9	69.0	118.7	49.9	127.2	129.1	133.6	144.1	180.8	223.8	232.9	243.2	247.3	244.4	212.1	199.5
895	40.1	40.2	40.5	41.2	54.0	67.8	117.4	49.9	125.8	127.7	132.1	142.5	178.9	222.2	231.4	241.8	246.0	245.6	215.5	203.3
900	40.1	40.2	40.5	41.1	53.2	66.5	116.2	49.9	124.5	126.3	130.7	140.9	177.1	220.5	229.8	240.4	244.8	246.7	218.7	207.0
905	40.1	40.2	40.4	41.0	52.3	65.4	115.0	49.9	123.2	125.0	129.3	139.4	175.3	218.9	228.3	239.0	243.4	247.6	221.6	210.5
910	40.1	40.1	40.4	40.9	51.6	64.2	113.8	49.9	121.9	123.6	127.9	137.9	173.5	217.3	226.8	237.5	242.1	248.4	224.3	213.8
915	40.1	40.1	40.3	40.8	50.8	63.1	112.7	49.9	120.6	122.3	126.5	136.4	171.7	215.7	225.2	236.1	240.8	249.1	226.9	216.8
920	40.1	40.1	40.3	40.7	50.1	62.1	111.5	49.9	119.3	121.0	125.2	134.9	170.0	214.1	223.7	234.7	239.4	249.7	229.2	219.8
925	40.0	40.1	40.3	40.7	49.4	61.1	110.5	50.0	118.1	119.8	123.8	133.4	168.3	212.5	222.1	233.2	238.0	250.1	231.4	222.6
930	40.0	40.1	40.2	40.6	48.8	60.1	109.6	50.2	116.9	118.5	122.5	132.0	166.6	210.9	220.6	231.8	236.6	250.5	233.4	225.0
935	40.0	40.1	40.2	40.5	48.2	59.1	108.8	50.4	115.7	117.3	121.3	130.6	164.9	209.3	219.1	230.4	235.2	250.8	235.2	227.3
940	40.0	40.1	40.2	40.5	47.6	58.3	108.1	50.5	114.5	116.1	120.0	129.2	163.3	207.7	217.5	228.9	233.9	250.9	236.9	229.5
945	40.0	40.1	40.2	40.4	47.1	57.4	107.3	50.6	113.4	114.9	118.8	127.9	161.8	206.1	216.0	227.4	232.5	251.0	238.4	231.5
950	40.0	40.1	40.1	40.4	46.5	56.6	106.6	50.7	112.3	113.8	117.5	126.5	160.2	204.5	214.5	226.0	231.2	251.0	239.8	233.4
955	40.0	40.0	40.1	40.3	46.0	55.8	105.8	50.8	111.3	112.7	116.4	125.3	158.7	203.0	212.9	224.5	229.8	250.9	241.1	235.2
960	40.0	40.0	40.1	40.3	45.6	55.0	105.1	50.9	110.4	111.7	115.2	124.0	157.2	201.4	211.4	223.1	228.5	250.7	242.4	236.8
965	40.0	40.0	40.1	40.3	45.1	54.3	104.3	51.0	109.5	110.7	114.1	122.7	155.7	199.8	209.9	221.6	227.1	250.4	243.4	238.3
970	40.0	40.0	40.1	40.2	44.7	53.5	103.6	51.0	108.7	109.9	113.1	121.5	154.2	198.2	208.4	220.2	225.7	250.1	244.1	239.6
975	40.0	40.0	40.1	40.2	44.3	52.8	102.8	51.1	107.9	109.1	112.1	120.3	152.7	196.7	206.9	218.7	224.3	249.7	244.9	240.8
980	40.0	40.0	40.1	40.2	44.0	52.1	102.1	51.1	107.1	108.3	111.2	119.1	151.2	195.2	205.4	217.3	222.9	249.3	245.7	241.9
985	40.0	40.0	40.1	40.2	43.7	51.4	101.3	51.1	106.3	107.5	110.3	118.0	149.7	193.6	203.9	215.8	221.5	248.8	246.3	242.9
990	40.0	40.0	40.1	40.2	43.3	50.8	100.5	51.0	105.6	106.7	109.5	117.0	148.3	192.2	202.4	214.3	220.2	248.2	246.8	243.8

T (min)	VAZÕES (m³/s)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
995	40.0	40.0	40.1	40.1	43.1	50.1	99.7	51.0	104.8	105.9	108.7	115.9	146.9	190.7	201.0	212.9	218.8	247.6	247.2	244.6
1000	40.0	40.0	40.0	40.1	42.8	49.5	98.9	50.9	104.1	105.1	107.9	114.9	145.5	189.2	199.5	211.4	217.3	246.9	247.5	245.3
1005	40.0	40.0	40.0	40.1	42.6	48.9	98.1	50.8	103.3	104.4	107.1	114.0	144.1	187.8	198.1	209.9	215.9	246.2	247.7	245.9
1010	40.0	40.0	40.0	40.1	42.3	48.3	97.3	50.7	102.5	103.6	106.3	113.0	142.7	186.3	196.6	208.5	214.4	245.4	247.8	246.4
1015	40.0	40.0	40.0	40.1	42.1	47.8	96.5	50.5	101.8	102.9	105.5	112.1	141.3	184.8	195.1	207.0	213.0	244.6	247.8	246.8
1020	40.0	40.0	40.0	40.1	41.9	47.3	95.6	50.3	101.0	102.1	104.7	111.2	140.0	183.3	193.6	205.5	211.5	243.8	247.8	247.1
1025	40.0	40.0	40.0	40.1	41.8	46.8	94.7	50.1	100.2	101.4	104.0	110.4	138.6	181.9	192.2	204.1	210.1	242.9	247.7	247.3
1030	40.0	40.0	40.0	40.1	41.6	46.4	93.7	49.7	99.4	100.7	103.2	109.5	137.3	180.4	190.7	202.6	208.6	242.1	247.5	247.4
1035	40.0	40.0	40.0	40.1	41.5	46.0	92.6	49.2	98.7	99.9	102.4	108.7	136.0	179.0	189.2	201.1	207.2	241.1	247.3	247.5
1040	40.0	40.0	40.0	40.1	41.3	45.6	91.2	48.6	97.9	99.1	101.7	107.9	134.8	177.6	187.8	199.7	205.7	240.2	247.0	247.5
1045	40.0	40.0	40.0	40.0	41.2	45.3	89.5	47.7	97.0	98.3	100.9	107.0	133.6	176.2	186.4	198.2	204.3	239.2	246.6	247.4
1050	40.0	40.0	40.0	40.0	41.1	45.2	87.0	46.2	96.1	97.5	100.1	106.2	132.3	174.8	185.0	196.7	202.8	238.2	246.2	247.2
1055	40.0	40.0	40.0	40.0	41.0	45.5	82.5	43.3	95.2	96.7	99.3	105.4	131.0	173.5	183.5	195.3	201.4	237.2	245.7	247.0
1060	40.0	40.0	40.0	40.0	40.9	45.9	74.6	37.0	94.1	95.8	98.5	104.6	129.9	172.0	182.1	193.8	199.9	236.1	245.2	246.7
1065	40.0	40.0	40.0	40.0	40.8	44.6	72.3	33.7	92.9	94.8	97.7	103.8	128.8	170.7	180.7	192.4	198.5	235.0	244.6	246.3
1070	40.0	40.0	40.0	40.0	40.7	43.8	71.1	31.4	91.2	93.6	96.8	102.9	127.7	169.2	179.3	191.0	197.1	233.9	244.0	245.9
1075	40.0	40.0	40.0	40.0	40.7	43.3	70.5	30.1	88.9	92.2	95.8	102.1	126.6	167.9	177.8	189.6	195.7	232.8	243.3	245.4
1080	40.0	40.0	40.0	40.0	40.6	42.9	70.1	29.5	86.1	90.3	94.7	101.3	125.7	166.5	176.4	188.2	194.3	231.7	242.6	244.9
1085	40.0	40.0	40.0	40.0	40.6	42.6	69.8	29.3	83.3	87.9	93.3	100.3	124.7	165.2	175.1	186.7	192.9	230.5	241.9	244.4
1090	40.0	40.0	40.0	40.0	40.5	42.4	69.6	29.2	80.6	85.2	91.5	99.3	123.7	163.8	173.7	185.3	191.5	229.3	241.1	243.8
1095	40.0	40.0	40.0	40.0	40.5	42.2	69.4	29.2	78.3	82.5	89.4	98.1	122.7	162.5	172.4	183.9	190.1	228.1	240.1	243.1
1100	40.0	40.0	40.0	40.0	40.4	42.0	69.3	29.2	76.3	80.0	87.1	96.8	121.7	161.3	171.0	182.6	188.8	226.9	239.3	242.4
1105	40.0	40.0	40.0	40.0	40.4	41.8	69.2	29.2	74.6	77.8	84.7	95.3	120.8	160.0	169.7	181.2	187.4	225.7	238.4	241.6
1110	40.0	40.0	40.0	40.0	40.3	41.6	69.2	29.3	73.3	75.9	82.3	93.7	119.8	158.7	168.4	179.8	186.0	224.5	237.5	240.8
1115	40.0	40.0	40.0	40.0	40.3	41.5	69.1	29.3	72.3	74.3	80.2	92.1	118.8	157.5	167.2	178.5	184.7	223.3	236.6	240.0

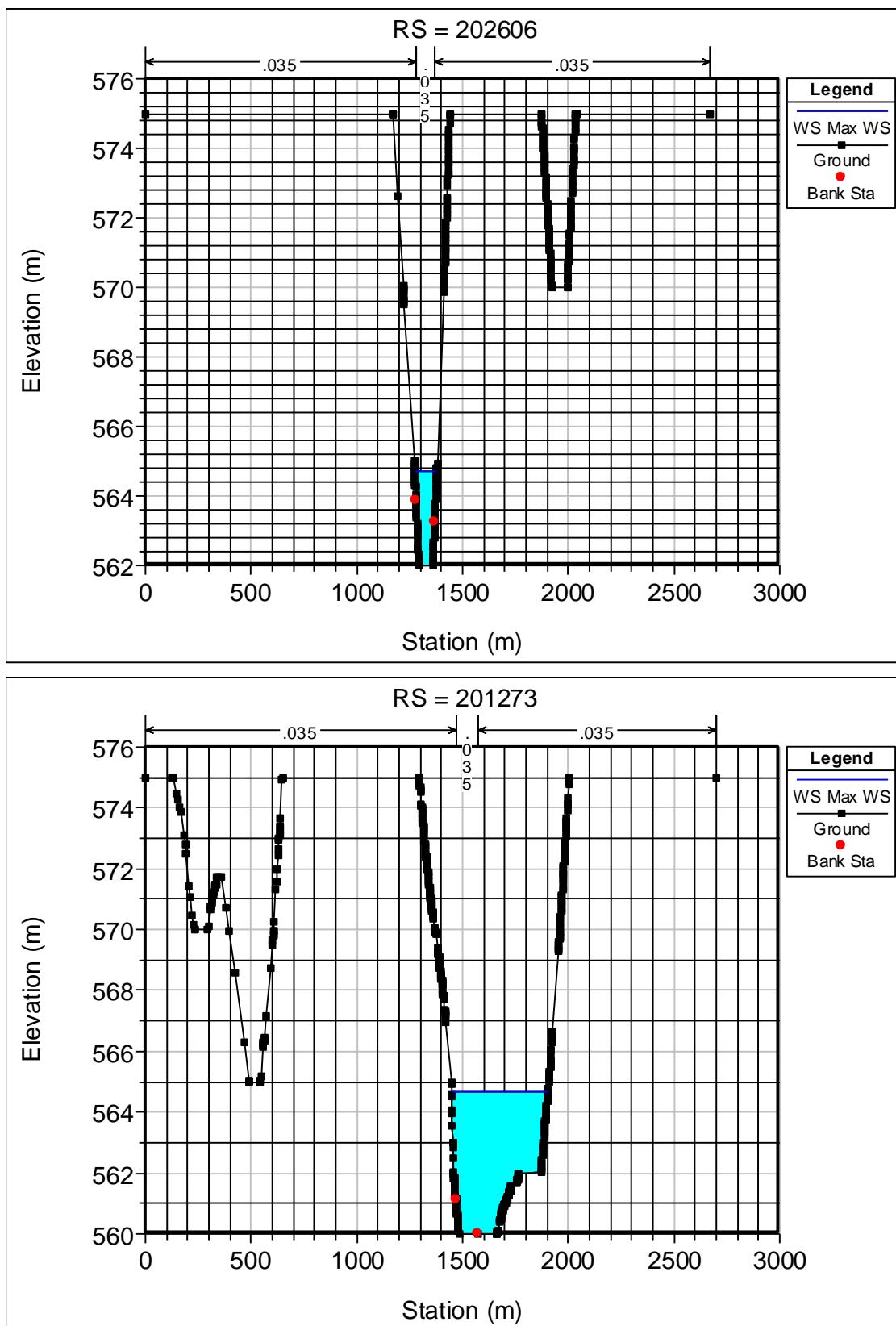
T (min)	VAZÕES (m³/s)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
1120	40.0	40.0	40.0	40.0	40.3	41.3	69.1	29.4	71.5	73.1	78.4	90.6	117.9	156.3	165.9	177.2	183.4	222.0	235.6	239.2
1125	40.0	40.0	40.0	40.0	40.3	41.2	69.1	29.5	70.9	72.1	76.8	89.0	116.9	155.1	164.7	175.8	182.0	220.8	234.7	238.3
1130	40.0	40.0	40.0	40.0	40.2	41.1	69.1	29.5	70.4	71.4	75.4	87.5	116.0	153.9	163.4	174.5	180.7	219.5	233.6	237.3
1135	40.0	40.0	40.0	40.0	40.2	41.0	69.1	29.6	70.1	70.8	74.4	86.0	115.0	152.7	162.2	173.3	179.4	218.3	232.6	236.3
1140	40.0	40.0	40.0	40.0	40.2	40.9	69.1	29.7	69.8	70.4	73.5	84.6	113.9	151.6	161.0	172.0	178.0	217.0	231.5	235.3
1145	40.0	40.0	40.0	40.0	40.2	40.8	69.1	29.8	69.6	70.0	72.8	83.3	113.0	150.4	159.8	170.7	176.8	215.7	230.4	234.3
1150	40.0	40.0	40.0	40.0	40.2	40.7	69.2	29.9	69.4	69.8	72.2	82.2	111.9	149.2	158.6	169.4	175.5	214.5	229.3	233.3
1155	40.0	40.0	40.0	40.0	40.1	40.7	69.3	30.0	69.3	69.6	71.7	81.1	110.8	148.1	157.4	168.1	174.1	213.2	228.1	232.2
1160	40.0	40.0	40.0	40.0	40.1	40.6	69.3	30.1	69.3	69.4	71.3	80.1	109.6	146.9	156.3	166.9	172.9	211.9	227.0	231.1
1165	40.0	40.0	40.0	40.0	40.1	40.5	69.4	30.3	69.2	69.3	71.0	79.2	108.5	145.8	155.1	165.7	171.6	210.7	225.8	230.1
1170	40.0	40.0	40.0	40.0	40.1	40.5	69.5	30.4	69.2	69.3	70.7	78.4	107.4	144.6	153.9	164.5	170.3	209.4	224.6	228.9
1175	40.0	40.0	40.0	40.0	40.1	40.4	69.6	30.5	69.2	69.2	70.5	77.6	106.2	143.5	152.8	163.3	169.1	208.2	223.4	227.8
1180	40.0	40.0	40.0	40.0	40.1	40.4	69.7	30.6	69.2	69.2	70.3	76.9	105.1	142.4	151.6	162.1	167.9	206.9	222.2	226.7
1185	40.0	40.0	40.0	40.0	40.1	40.4	69.8	30.8	69.2	69.2	70.2	76.3	103.9	141.2	150.5	160.9	166.6	205.6	221.0	225.4
1190	40.0	40.0	40.0	40.0	40.1	40.3	69.9	30.9	69.3	69.2	70.1	75.7	102.7	140.0	149.4	159.7	165.4	204.3	219.8	224.1
1195	40.0	40.0	40.0	40.0	40.1	40.3	70.1	31.0	69.4	69.3	70.0	75.2	101.6	138.9	148.2	158.6	164.2	203.1	218.5	222.9
1200	40.0	40.0	40.0	40.0	40.1	40.2	70.2	31.2	69.4	69.3	69.9	74.7	100.4	137.8	147.0	157.4	163.0	201.8	217.4	221.6
1205	40.0	40.0	40.0	40.0	40.0	40.2	70.3	31.3	69.5	69.4	69.9	74.3	99.3	136.6	145.9	156.2	161.8	200.5	216.1	220.4
1210	40.0	40.0	40.0	40.0	40.0	40.2	70.4	31.5	69.6	69.4	69.9	73.9	98.2	135.5	144.7	155.1	160.7	199.3	214.9	219.2
1215	40.0	40.0	40.0	40.0	40.0	40.2	70.6	31.6	69.7	69.5	69.9	73.6	97.1	134.4	143.5	153.9	159.5	198.0	213.7	218.0
1220	40.0	40.0	40.0	40.0	40.0	40.1	70.7	31.7	69.8	69.6	69.9	73.3	96.0	133.3	142.4	152.8	158.4	196.7	212.4	216.8
1225	40.0	40.0	40.0	40.0	40.0	40.1	70.8	31.9	69.9	69.7	70.0	73.0	94.9	132.1	141.3	151.6	157.3	195.5	211.2	215.5
1230	40.0	40.0	40.0	40.0	40.0	40.1	71.0	32.0	70.0	69.8	70.0	72.8	94.0	131.0	140.1	150.5	156.2	194.2	209.9	214.3
1235	40.0	40.0	40.0	40.0	40.0	40.1	71.1	32.2	70.1	69.9	70.1	72.5	93.0	129.9	139.0	149.3	155.0	193.0	208.7	213.0
1240	40.0	40.0	40.0	40.0	40.0	40.1	71.3	32.3	70.2	70.0	70.1	72.3	92.0	128.8	137.9	148.2	153.9	191.7	207.4	211.7

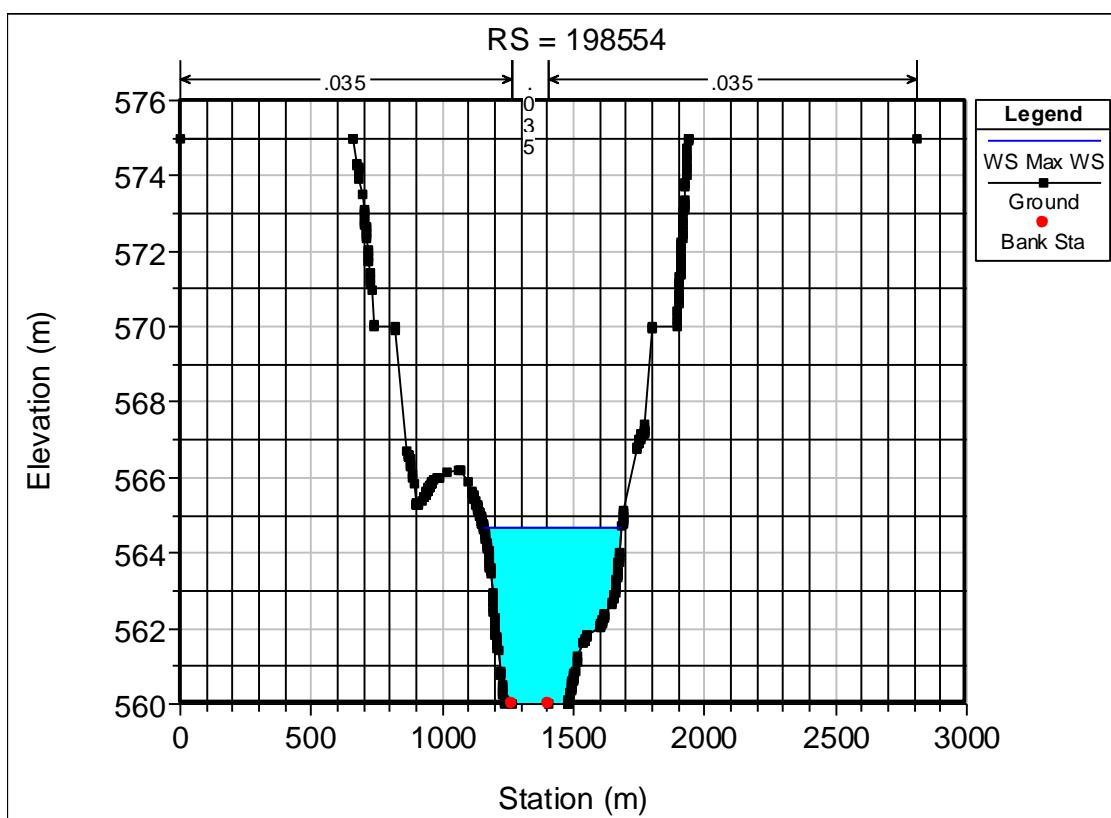
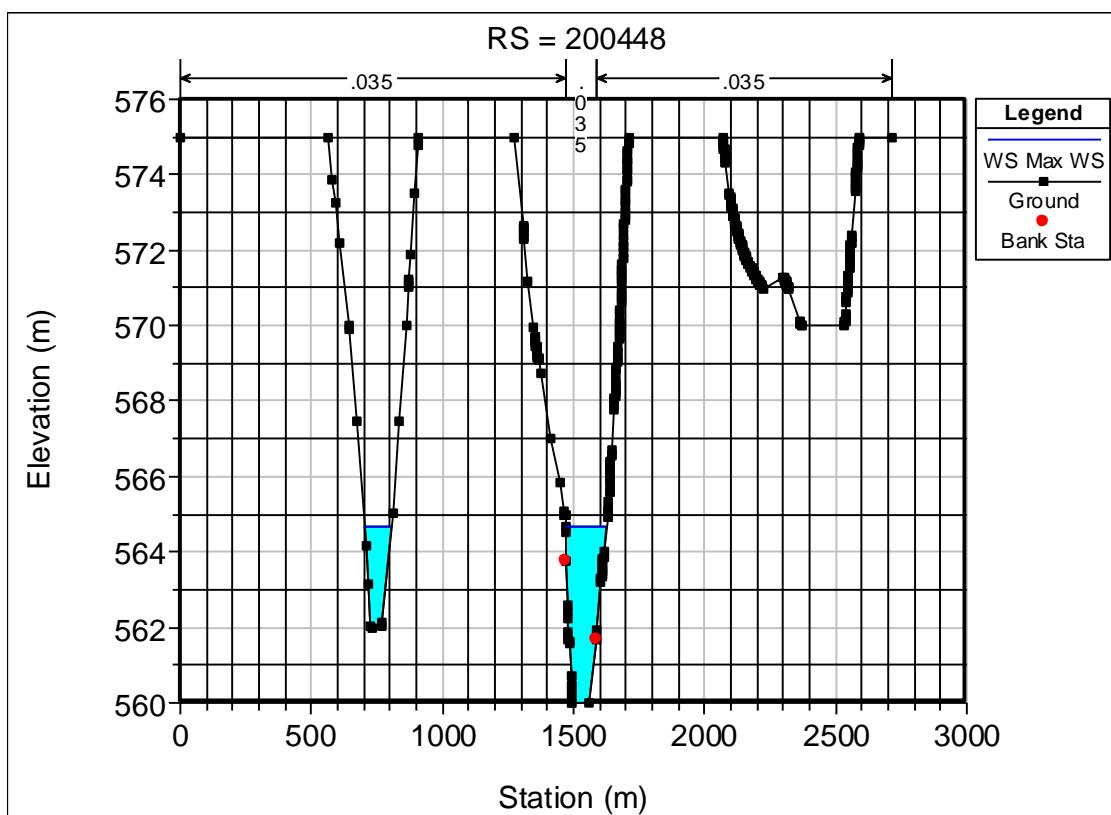
T (min)	VAZÕES (m³/s)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
1245	40.0	40.0	40.0	40.0	40.0	40.1	71.4	32.5	70.4	70.2	70.2	72.2	91.0	127.7	136.7	147.1	152.7	190.4	206.1	210.4
1250	40.0	40.0	40.0	40.0	40.0	40.1	71.6	32.6	70.5	70.3	70.3	72.0	90.1	126.6	135.6	145.9	151.6	189.2	204.8	209.1
1255	40.0	40.0	40.0	40.0	40.0	40.0	71.7	32.8	70.6	70.4	70.3	71.9	89.2	125.5	134.4	144.8	150.5	188.0	203.6	207.8
1260	40.0	40.0	40.0	40.0	40.0	40.0	71.9	32.9	70.8	70.5	70.4	71.8	88.4	124.4	133.3	143.7	149.3	186.8	202.4	206.5
1265	40.0	40.0	40.0	40.0	40.0	40.0	72.0	33.1	70.9	70.7	70.5	71.7	87.5	123.3	132.2	142.5	148.2	185.5	201.2	205.3
1270	40.0	40.0	40.0	40.0	40.0	40.0	72.2	33.2	71.1	70.8	70.6	71.7	86.8	122.2	131.1	141.4	147.0	184.3	200.0	204.1
1275	40.0	40.0	40.0	40.0	40.0	40.0	72.3	33.4	71.2	71.0	70.8	71.6	86.0	121.1	130.0	140.3	145.9	183.1	198.8	202.9
1280	40.0	40.0	40.0	40.0	40.0	40.0	72.5	33.5	71.3	71.1	70.9	71.6	85.3	120.1	128.9	139.1	144.8	182.0	197.5	201.7
1285	40.0	40.0	40.0	40.0	40.0	40.0	72.6	33.7	71.5	71.2	71.0	71.5	84.6	119.0	127.8	138.0	143.7	180.8	196.3	200.4
1290	40.0	40.0	40.0	40.0	40.0	40.0	72.8	33.8	71.6	71.4	71.1	71.5	84.0	118.0	126.8	136.9	142.6	179.6	195.1	199.2
1295	40.0	40.0	40.0	40.0	40.0	40.0	72.9	33.9	71.8	71.5	71.2	71.5	83.4	116.9	125.7	135.8	141.5	178.5	193.8	198.0
1300	40.0	40.0	40.0	40.0	40.0	40.0	73.1	34.1	71.9	71.7	71.4	71.5	82.9	116.0	124.7	134.7	140.4	177.3	192.6	196.8
1305	40.0	40.0	40.0	40.0	40.0	40.0	73.2	34.2	72.1	71.8	71.5	71.6	82.4	115.0	123.7	133.7	139.3	176.2	191.3	195.5
1310	40.0	40.0	40.0	40.0	40.0	40.0	73.4	34.4	72.2	72.0	71.6	71.6	81.9	114.0	122.6	132.6	138.2	175.0	190.1	194.3
1315	40.0	40.0	40.0	40.0	40.0	40.0	73.5	34.5	72.4	72.1	71.8	71.6	81.4	113.1	121.7	131.6	137.2	173.9	188.9	193.1
1320	40.0	40.0	40.0	40.0	40.0	40.0	73.7	34.6	72.6	72.3	71.9	71.7	80.9	112.1	120.7	130.5	136.1	172.8	187.7	191.8
1325	40.0	40.0	40.0	40.0	40.0	40.0	73.8	34.8	72.7	72.4	72.0	71.7	80.5	111.2	119.7	129.5	135.0	171.6	186.6	190.6
1330	40.0	40.0	40.0	40.0	40.0	40.0	74.0	34.9	72.9	72.6	72.2	71.8	80.0	110.3	118.8	128.4	134.0	170.5	185.4	189.5
1335	40.0	40.0	40.0	40.0	40.0	40.0	74.1	35.1	73.0	72.8	72.3	71.9	79.6	109.5	117.8	127.4	133.0	169.3	184.2	188.3
1340	40.0	40.0	40.0	40.0	40.0	40.0	74.3	35.2	73.2	72.9	72.5	72.0	79.2	108.6	116.9	126.4	131.9	168.2	183.0	187.1
1345	40.0	40.0	40.0	40.0	40.0	40.0	74.4	35.3	73.3	73.1	72.6	72.0	78.9	107.8	116.0	125.4	130.9	167.1	181.9	185.9
1350	40.0	40.0	40.0	40.0	40.0	40.0	74.6	35.4	73.5	73.2	72.8	72.1	78.5	107.0	115.1	124.4	129.9	165.9	180.7	184.7
1355	40.0	40.0	40.0	40.0	40.0	40.0	74.7	35.6	73.6	73.4	72.9	72.2	78.2	106.2	114.2	123.5	128.9	164.8	179.6	183.6
1360	40.0	40.0	40.0	40.0	40.0	40.0	74.9	35.7	73.8	73.5	73.1	72.3	77.9	105.4	113.4	122.5	127.9	163.7	178.4	182.4
1365	40.0	40.0	40.0	40.0	40.0	40.0	75.0	35.8	73.9	73.7	73.2	72.4	77.6	104.6	112.5	121.6	126.9	162.6	177.1	181.3

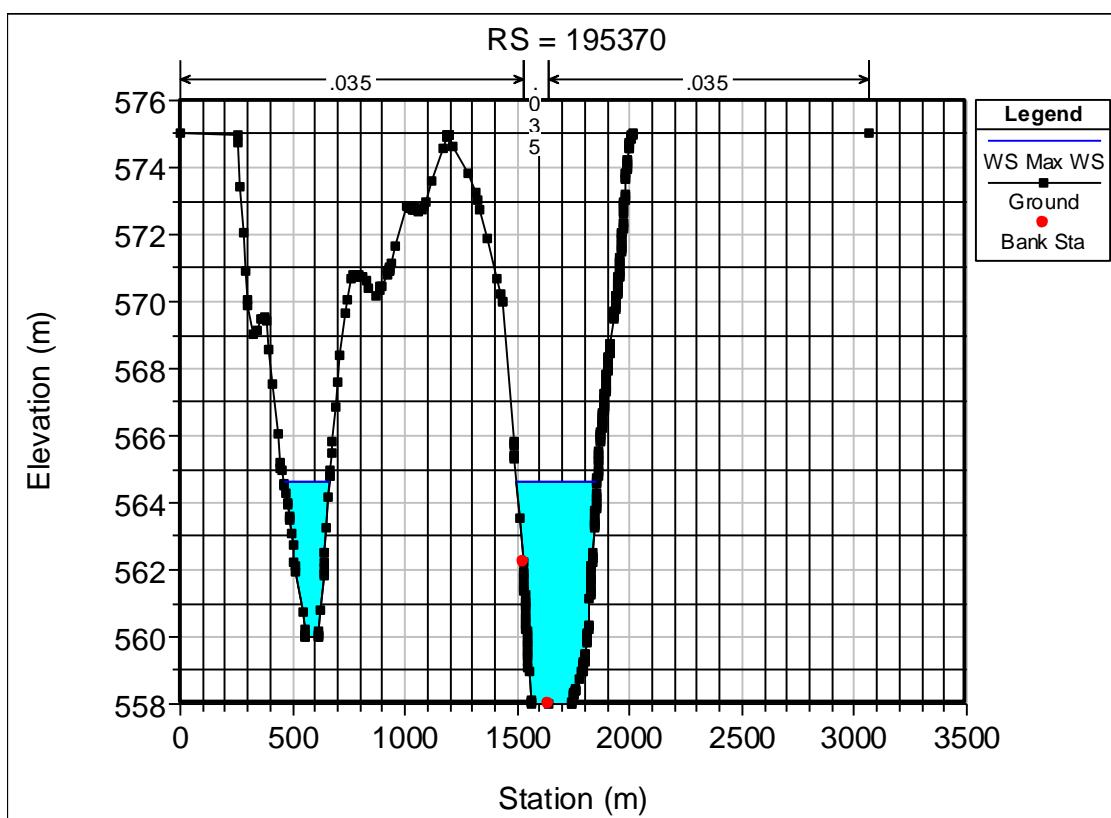
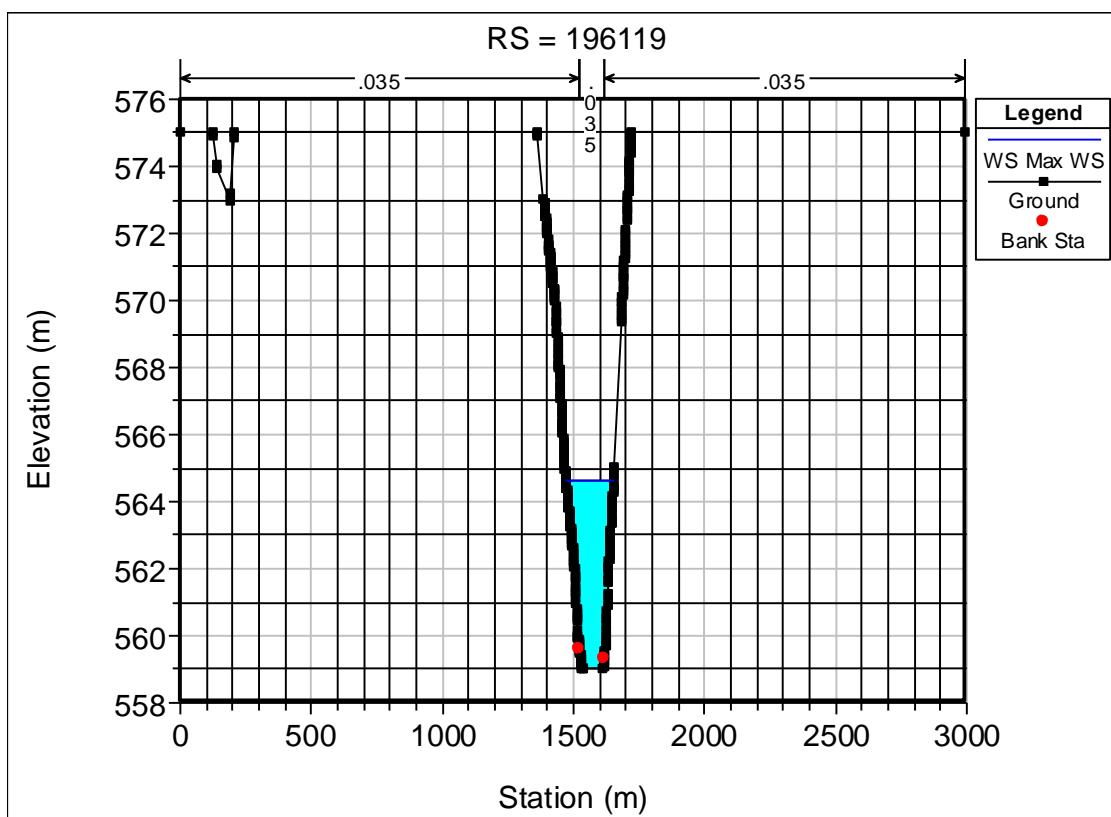
T (min)	VAZÕES (m³/s)																		
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti
1370	40.0	40.0	40.0	40.0	40.0	75.1	36.0	74.1	73.8	73.3	72.5	77.3	103.9	111.7	120.6	126.0	161.5	176.0	180.1
1375	40.0	40.0	40.0	40.0	40.0	75.3	36.1	74.2	74.0	73.5	72.7	77.0	103.1	110.9	119.7	125.0	160.4	174.8	178.9
1380	40.0	40.0	40.0	40.0	40.0	75.4	36.2	74.3	74.1	73.6	72.8	76.8	102.4	110.0	118.8	124.1	159.3	173.7	177.7
1385	40.0	40.0	40.0	40.0	40.0	75.5	36.4	74.5	74.2	73.8	72.9	76.5	101.7	109.2	117.9	123.1	158.2	172.6	176.7
1390	40.0	40.0	40.0	40.0	40.0	75.7	36.5	74.6	74.4	73.9	73.0	76.3	101.0	108.4	117.0	122.2	157.1	171.4	175.6
1395	40.0	40.0	40.0	40.0	40.0	75.8	36.6	74.8	74.5	74.1	73.1	76.1	100.3	107.6	116.1	121.2	156.0	170.3	174.5
1400	40.0	40.0	40.0	40.0	40.0	75.9	36.7	74.9	74.7	74.2	73.2	75.9	99.6	106.9	115.2	120.3	155.0	169.1	173.3
1405	40.0	40.0	40.0	40.0	40.0	76.1	36.9	75.0	74.8	74.4	73.4	75.7	99.0	106.1	114.4	119.4	153.9	168.0	172.2
1410	40.0	40.0	40.0	40.0	40.0	76.2	37.0	75.2	74.9	74.5	73.5	75.5	98.4	105.4	113.6	118.5	152.8	166.7	171.1
1415	40.0	40.0	40.0	40.0	40.0	76.3	37.1	75.3	75.1	74.6	73.6	75.4	97.8	104.6	112.8	117.7	151.8	165.6	170.0
1420	40.0	40.0	40.0	40.0	40.0	76.5	37.2	75.5	75.2	74.8	73.7	75.3	97.1	103.9	111.9	116.8	150.8	164.5	168.8
1425	40.0	40.0	40.0	40.0	40.0	76.6	37.3	75.6	75.4	74.9	73.9	75.1	96.5	103.2	111.1	115.9	149.7	163.3	167.7
1430	40.0	40.0	40.0	40.0	40.0	76.7	37.5	75.7	75.5	75.0	74.0	75.0	96.0	102.5	110.3	115.1	148.7	162.2	166.5
1435	40.0	40.0	40.0	40.0	40.0	76.8	37.6	75.9	75.6	75.2	74.1	74.9	95.4	101.9	109.6	114.3	147.7	161.1	165.4
1440	40.0	40.0	40.0	40.0	40.0	77.0	37.7	76.0	75.8	75.3	74.2	74.9	94.9	101.2	108.8	113.4	146.7	160.0	164.2
1445	40.0	40.0	40.0	40.0	40.0	77.1	37.8	76.1	75.9	75.4	74.4	74.8	94.3	100.6	108.0	112.6	145.6	158.9	163.1
1450	40.0	40.0	40.0	40.0	40.0	77.2	37.9	76.3	76.0	75.6	74.5	74.7	93.8	99.9	107.3	111.8	144.6	157.9	162.0
1455	40.0	40.0	40.0	40.0	40.0	77.3	38.1	76.4	76.2	75.7	74.6	74.7	93.3	99.3	106.6	111.0	143.6	156.9	160.9
1460	40.0	40.0	40.0	40.0	40.0	77.5	38.1	76.5	76.3	75.8	74.8	74.6	92.8	98.7	105.9	110.3	142.6	155.9	159.9
1465	40.0	40.0	40.0	40.0	40.0	77.6	38.3	76.6	76.4	76.0	74.9	74.6	92.3	98.1	105.2	109.6	141.6	155.0	158.9
1470	40.0	40.0	40.0	40.0	40.0	77.7	38.4	76.8	76.5	76.1	75.0	74.6	91.8	97.5	104.5	108.9	140.6	154.0	157.8
1475	40.0	40.0	40.0	40.0	40.0	77.8	38.5	76.9	76.7	76.2	75.1	74.5	91.3	96.9	103.9	108.3	139.6	153.1	156.9
1480	40.0	40.0	40.0	40.0	40.0	77.9	38.6	77.0	76.8	76.4	75.3	74.5	90.8	96.4	103.2	107.7	138.6	152.1	155.9
1485	40.0	40.0	40.0	40.0	40.0	78.0	38.7	77.1	76.9	76.5	75.4	74.5	90.4	95.8	102.6	107.0	137.7	151.1	154.9
1490	40.0	40.0	40.0	40.0	40.0	78.2	38.8	77.3	77.1	76.6	75.5	74.5	90.0	95.3	101.9	106.3	136.7	150.1	153.9

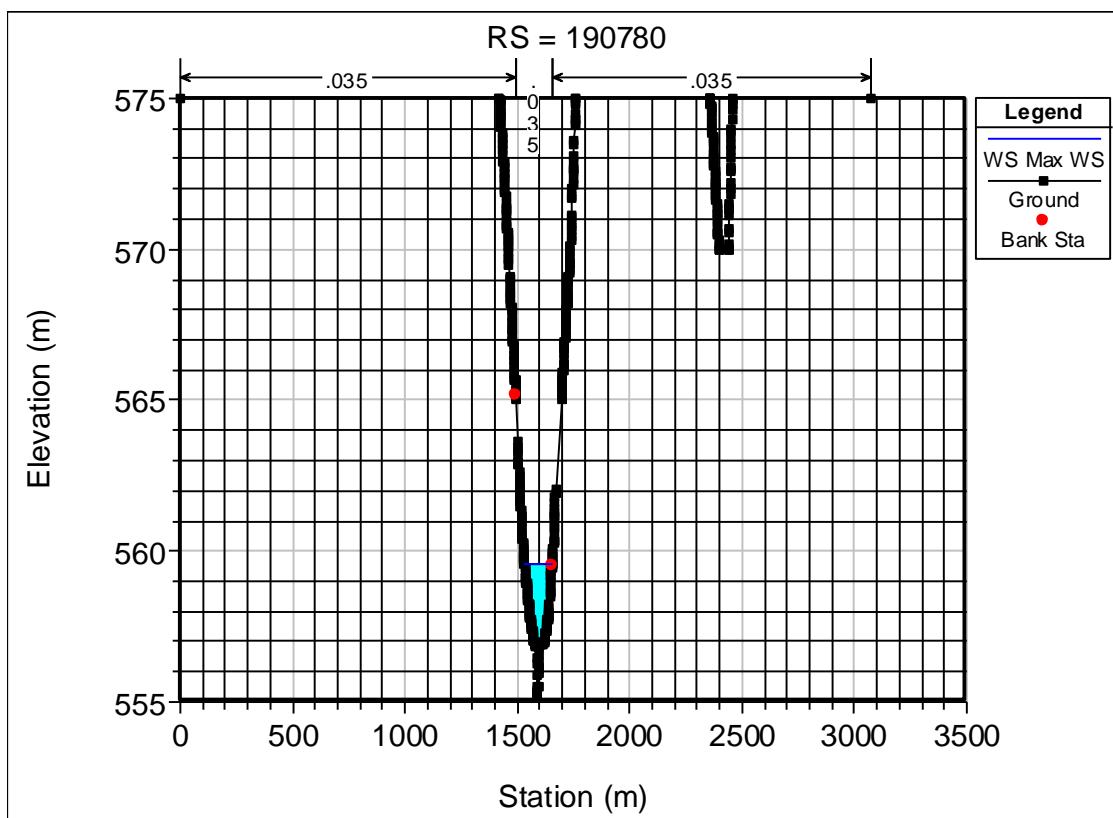
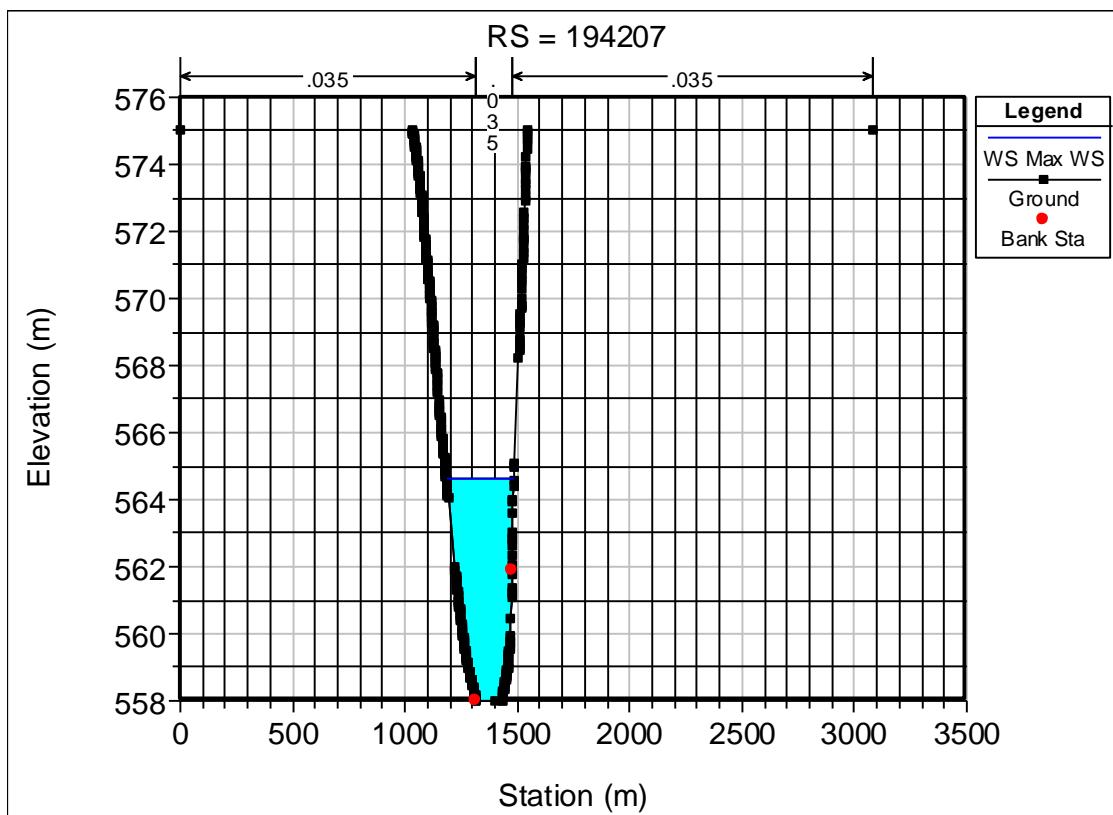
T (min)	VAZÕES (m <sup>3</sup> /s)																			
	Sítio São Benedito	Estrada e Ponte das Primaveras	Alameda Vale do Sol	Construções	Ponte da Estrada Rio Acima	Ponte a montante da Confluência	Confluência com o Rio Capivari	Estrada do Rio Acima - Rio Capivari	R. Latif S. Pires Miguel Filho	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua 25 de Janeiro	Rua Siqueira Campos/Rua 15 de Novembro	Rua Antonio Tancredo	Av. Sinter Futura	Ponte da Rua Nove	SP-101 Rod. Jorn. Francisco Aguirre Proença	Rua João Nicolucci - Jd Sta. Rita de Cássia	Ponte a montante da Rodovia do Açúcar	Av. Moisés Forti	Ponte da Rodovia do Açúcar
1495	40.0	40.0	40.0	40.0	40.0	40.0	78.3	38.9	77.4	77.2	76.7	75.7	74.5	89.6	94.8	101.3	105.6	135.7	149.1	152.9
1500	40.0	40.0	40.0	40.0	40.0	40.0	78.4	39.1	77.5	77.3	76.9	75.8	74.6	89.2	94.3	100.7	105.0	134.8	148.1	151.9

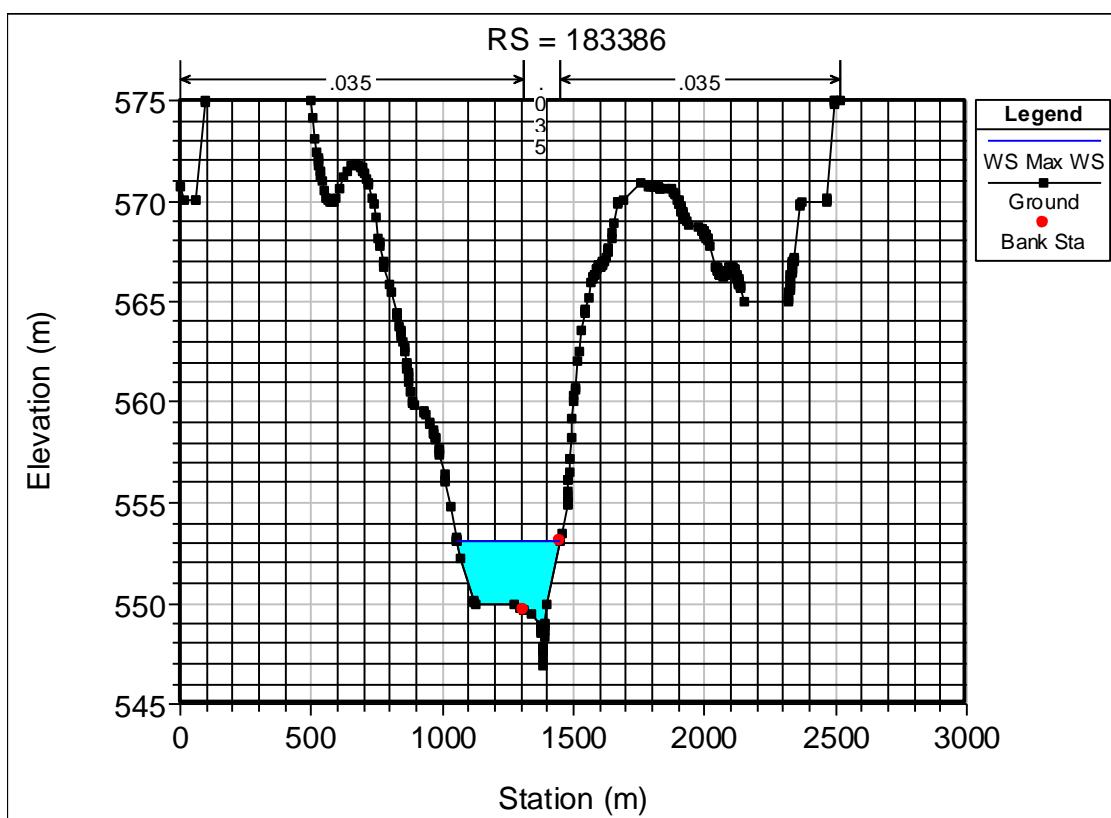
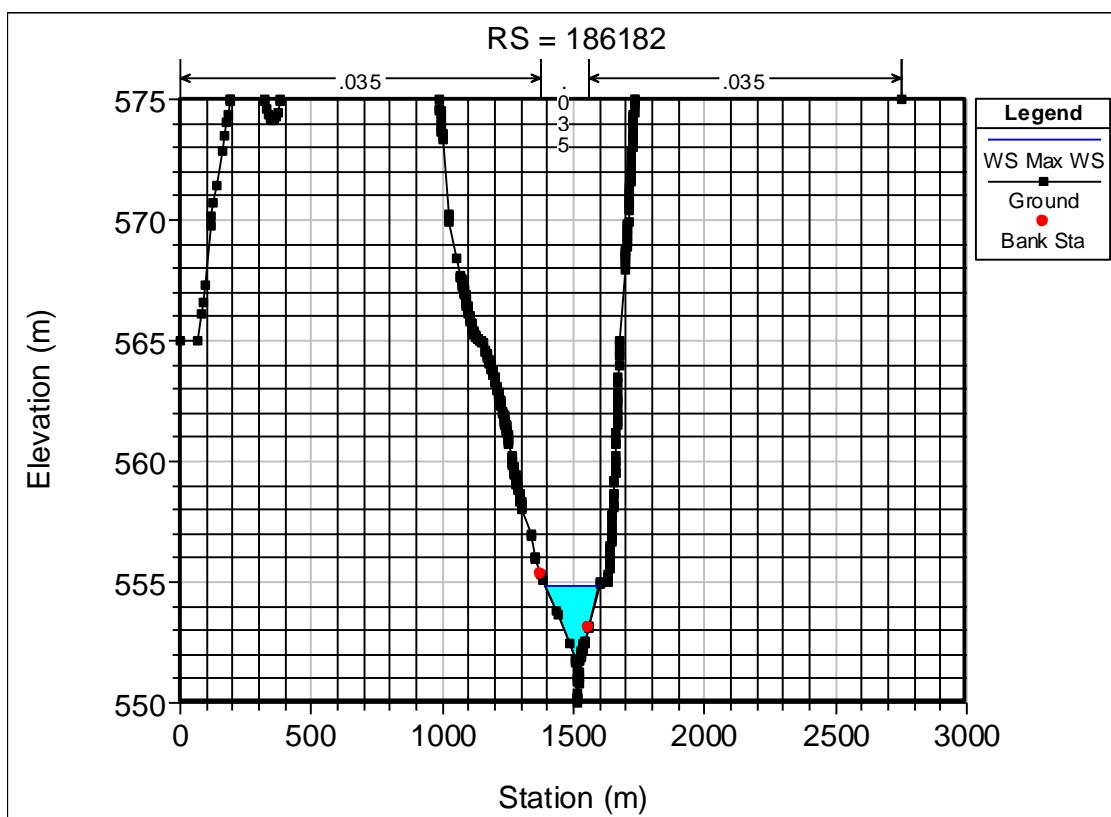
### 7.3 SEÇÕES TRANVERSAIS DO RIO CAPIVARI-MIRIM

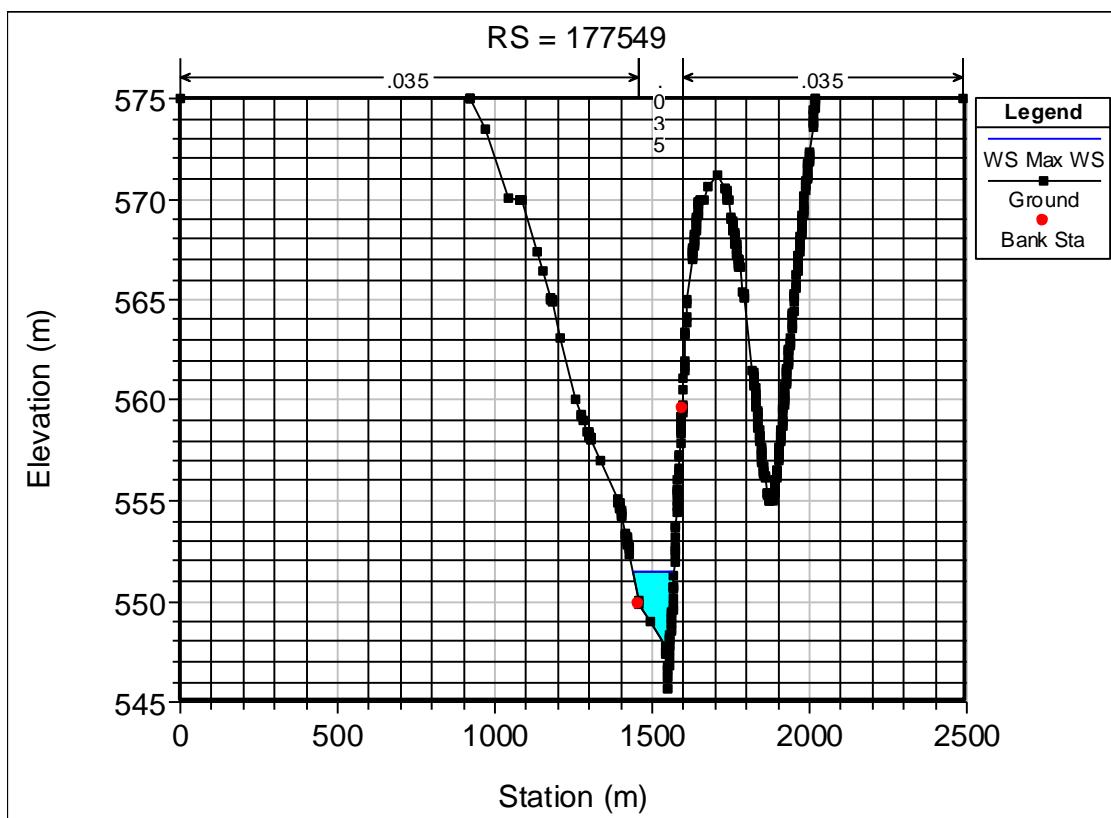
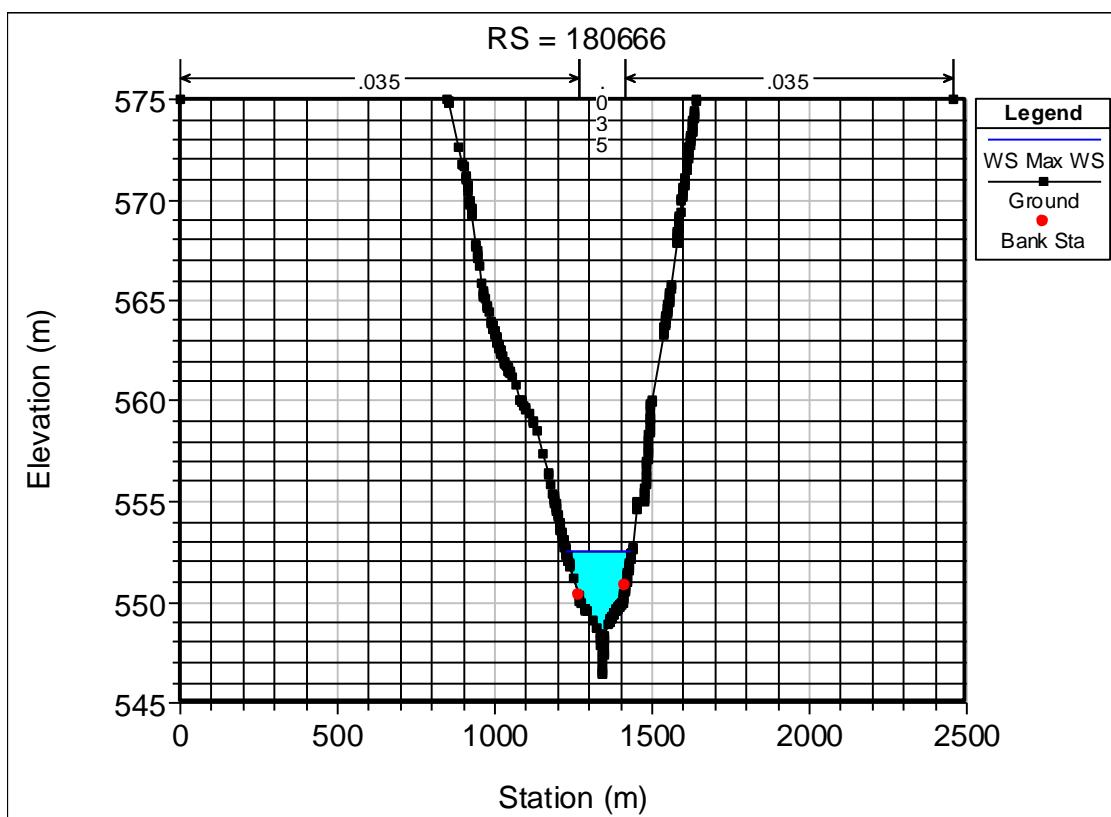


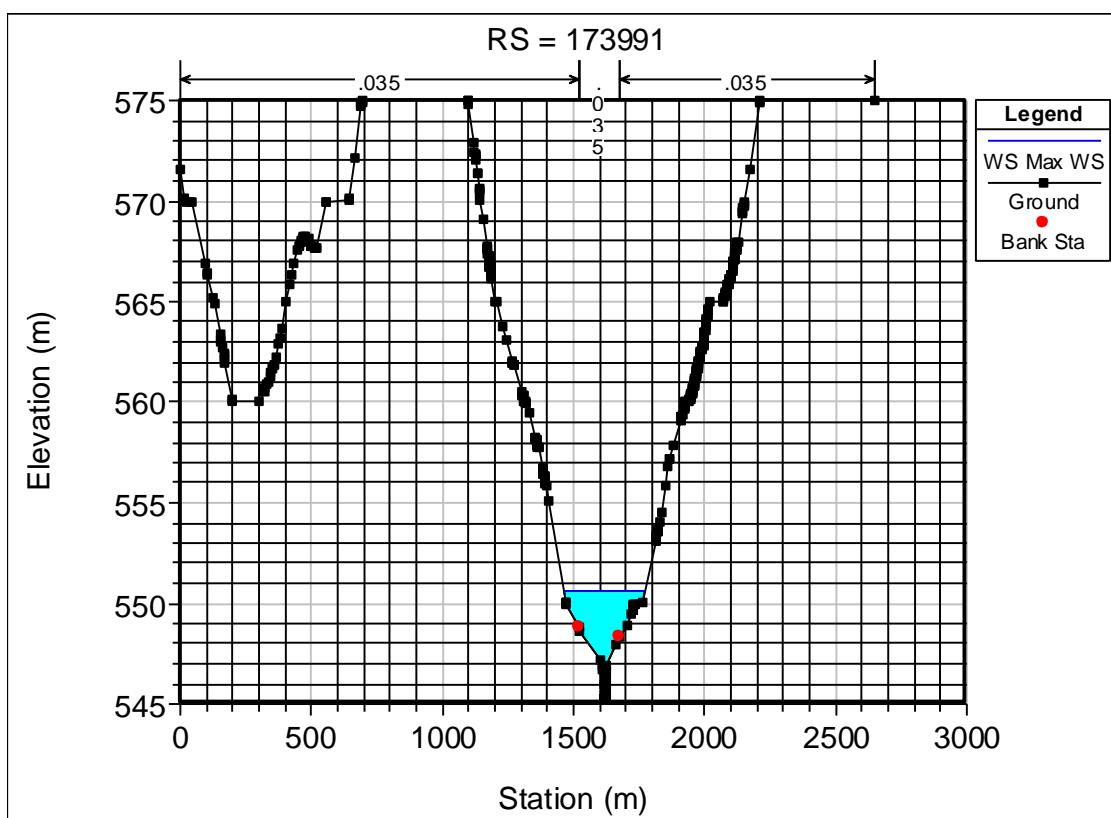
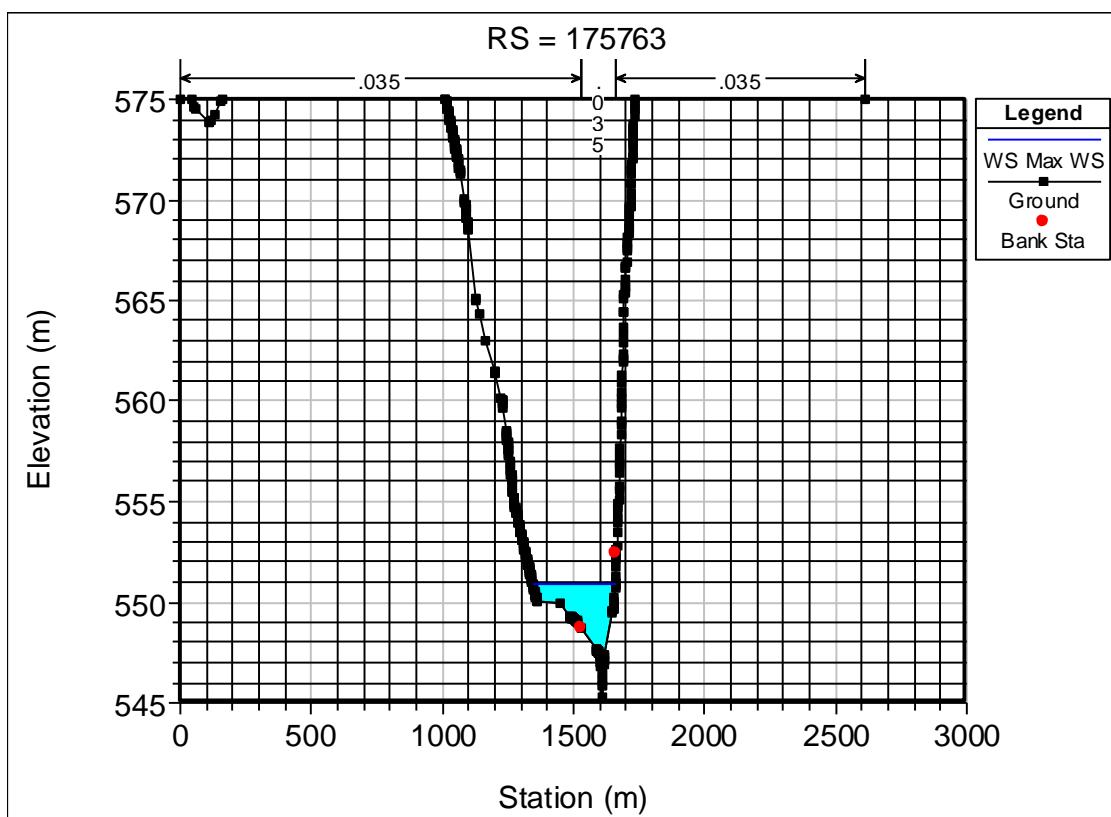


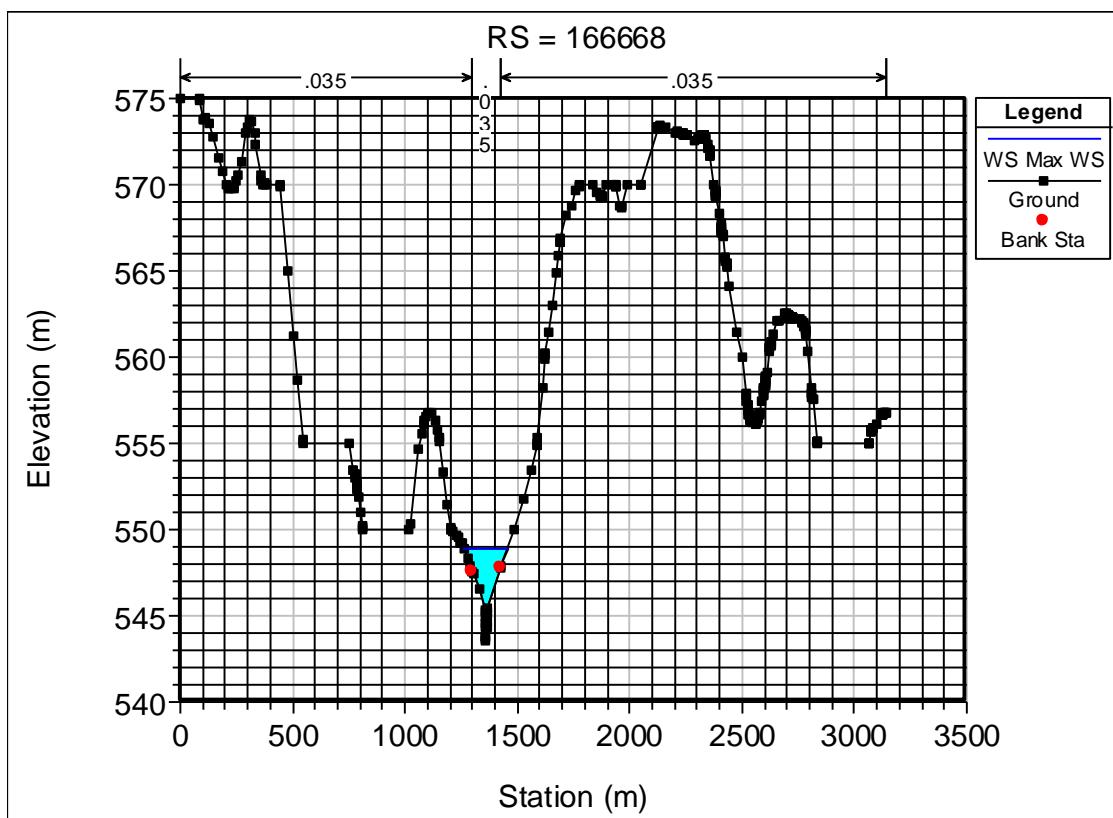
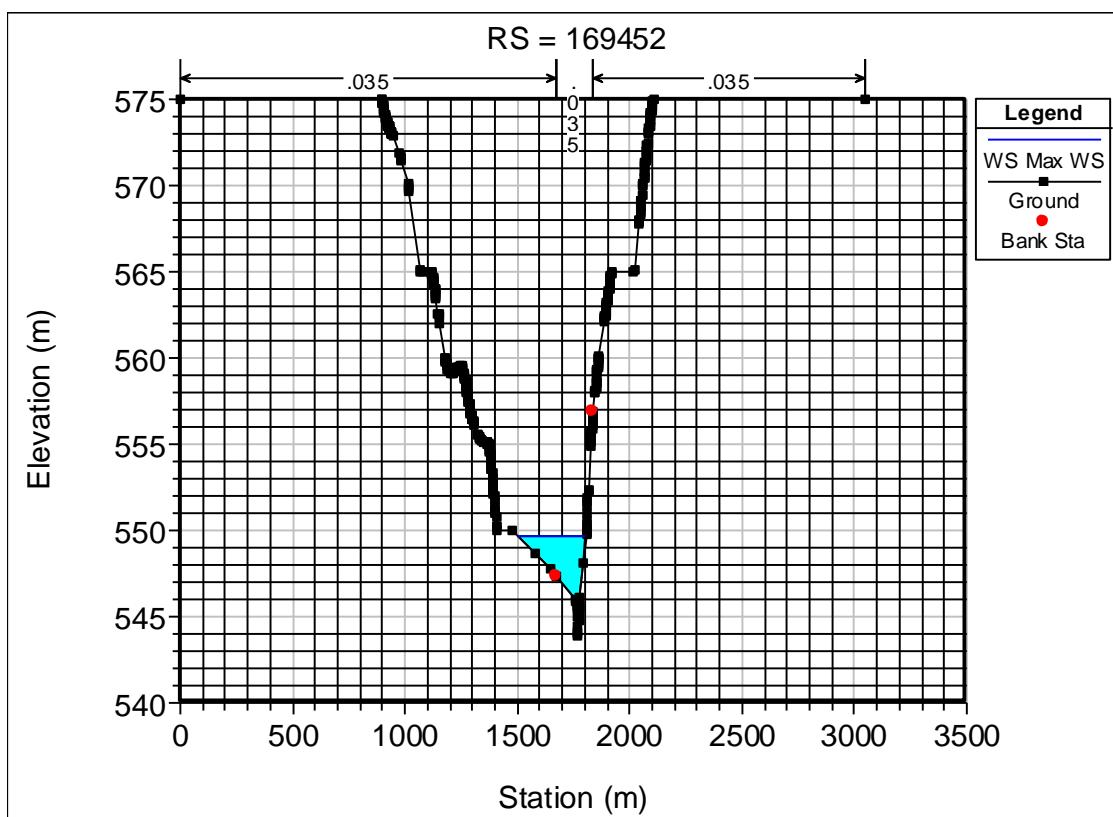


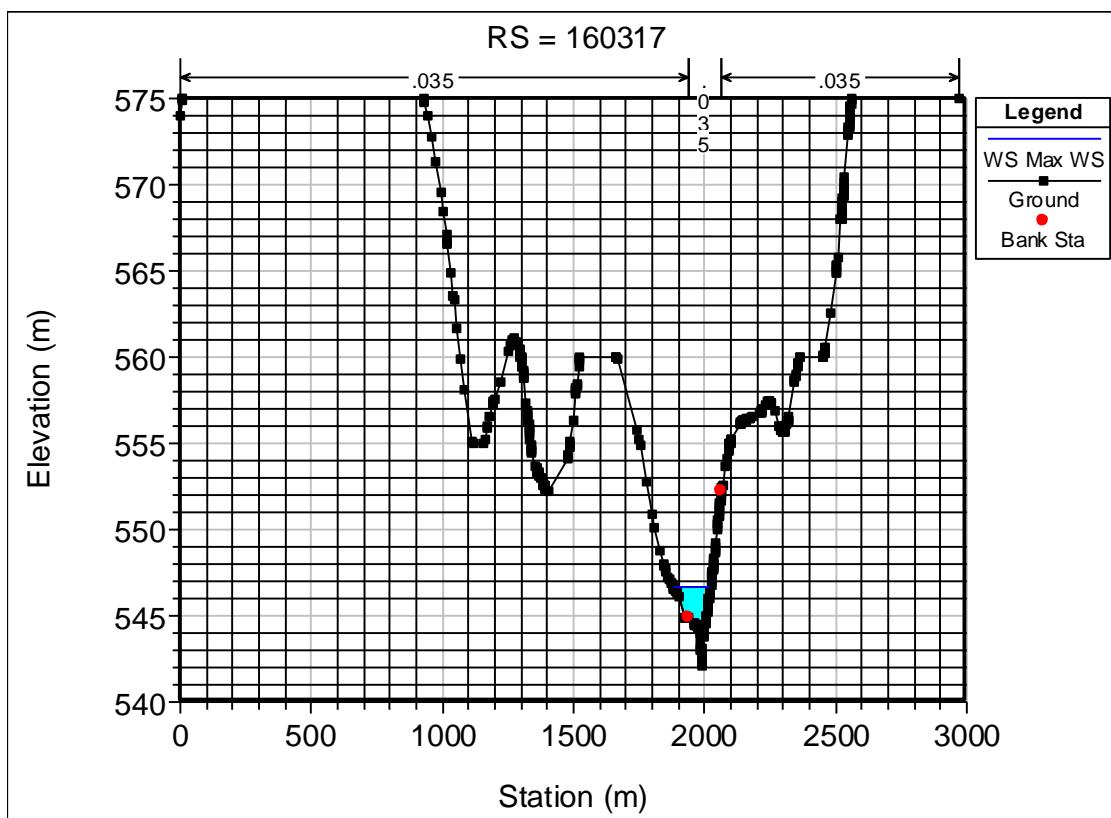
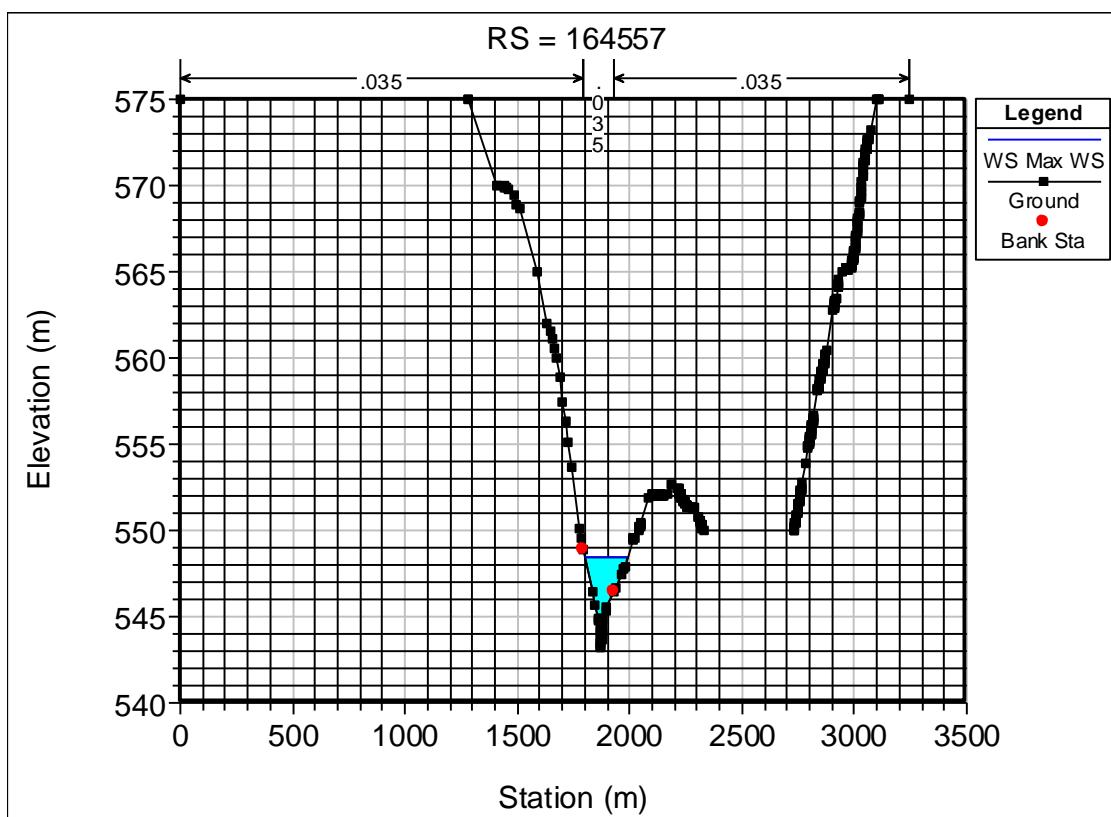


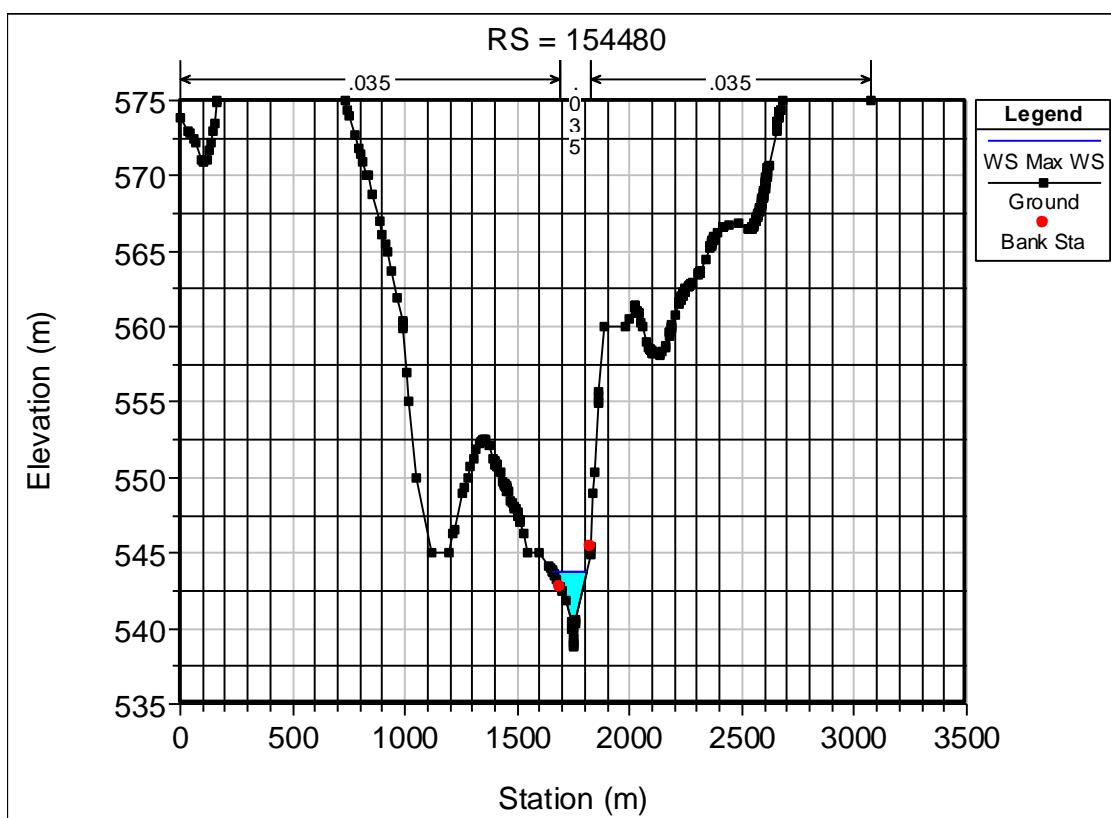
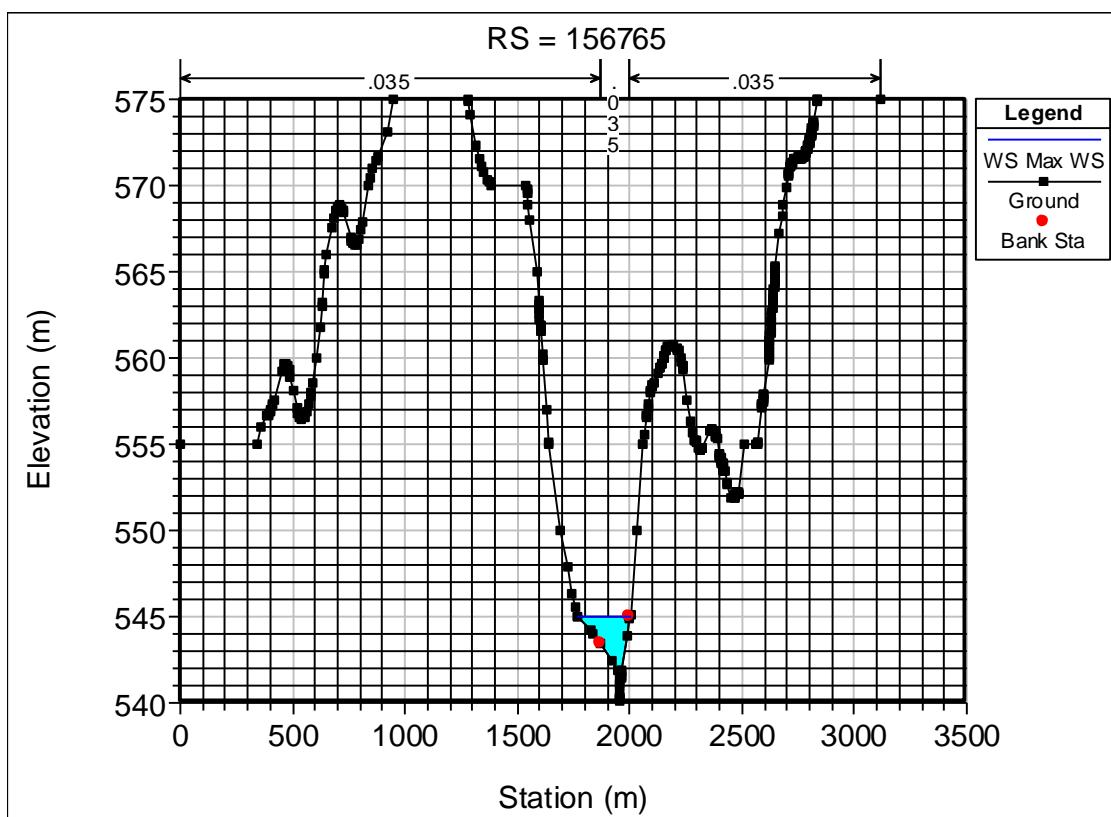


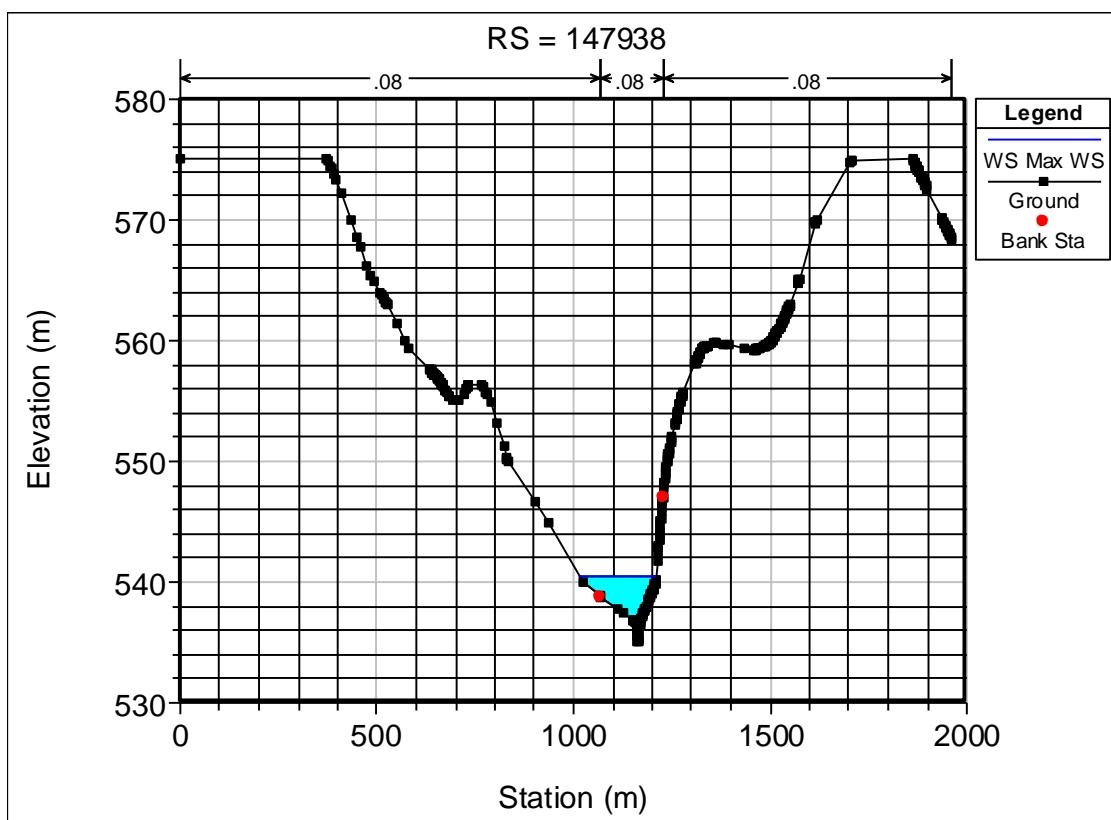
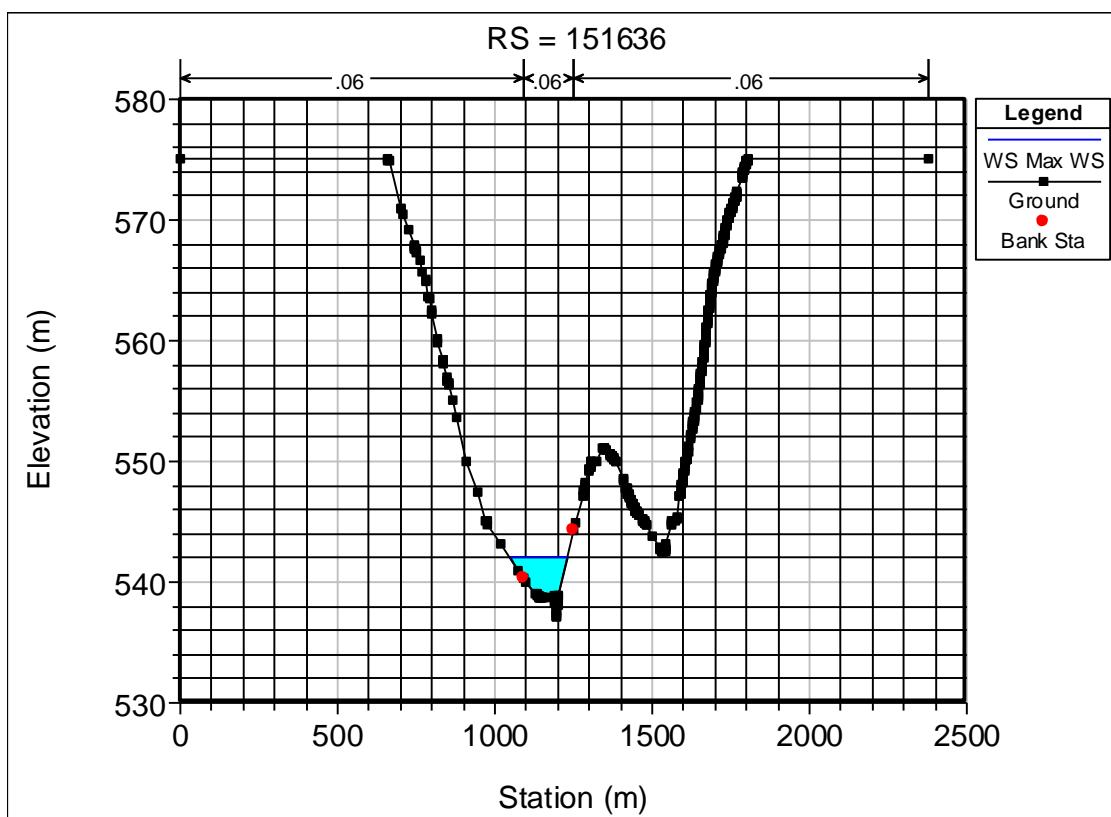


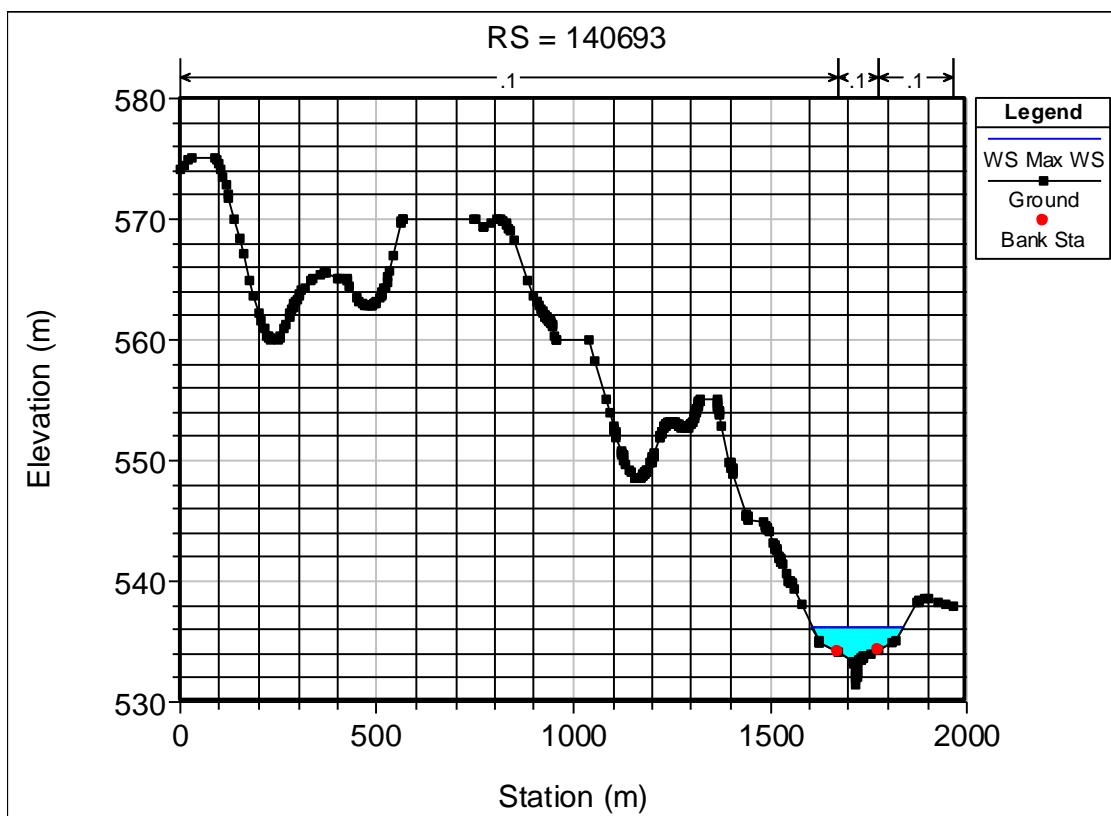
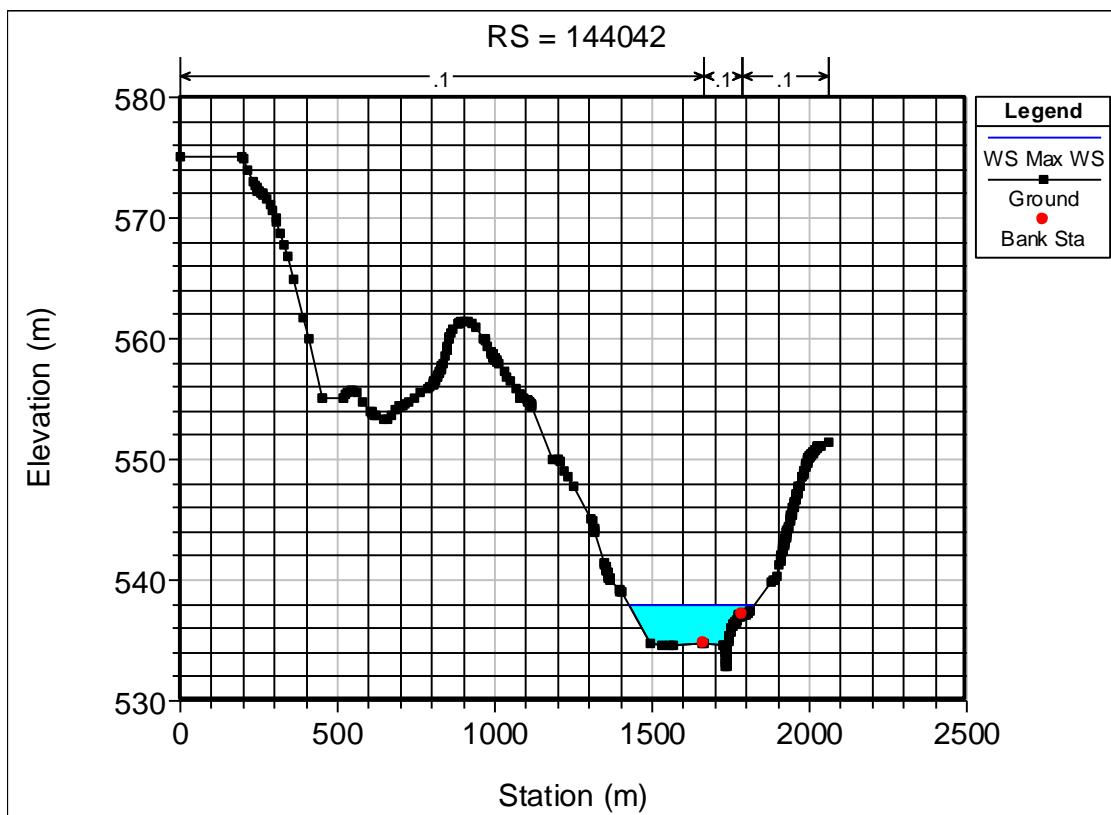




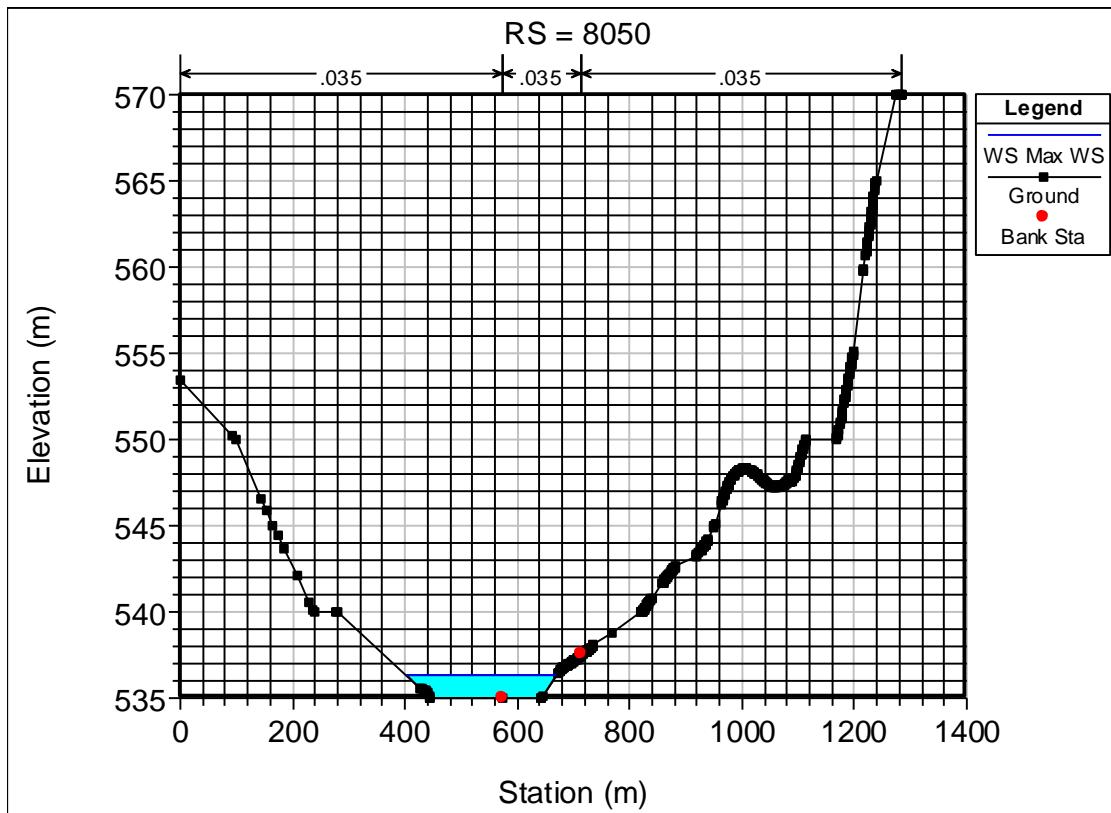


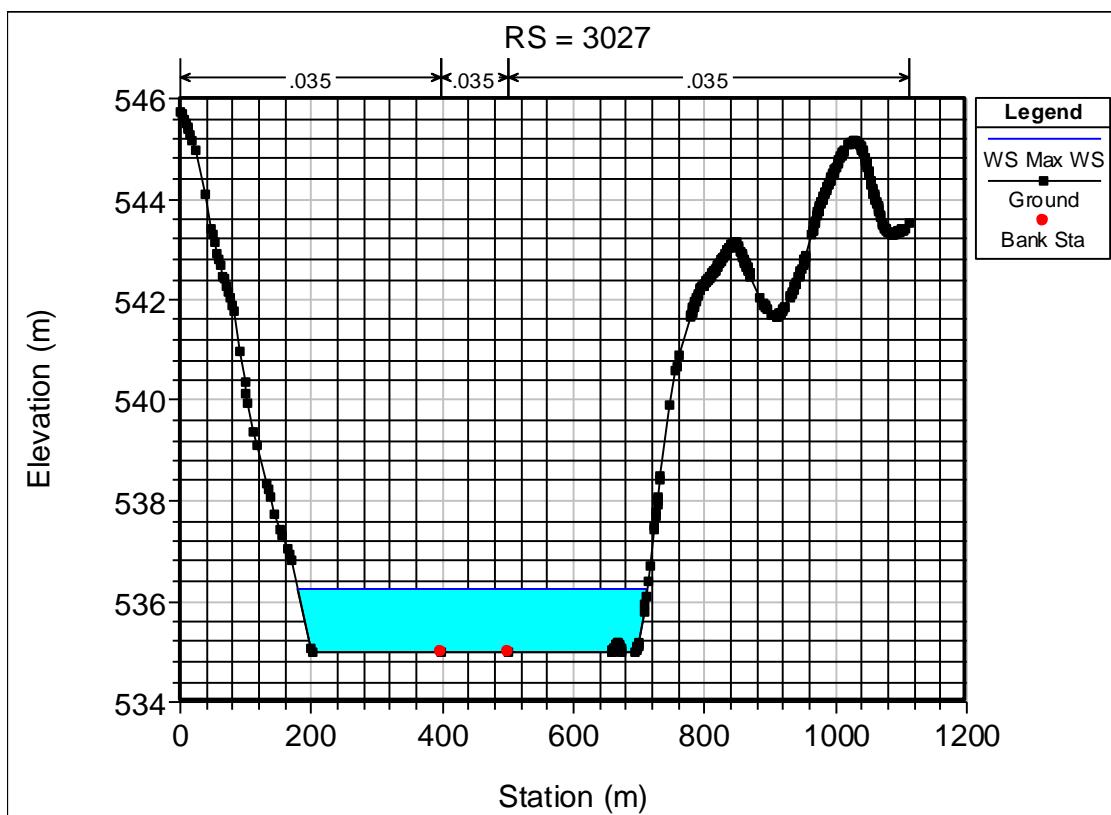
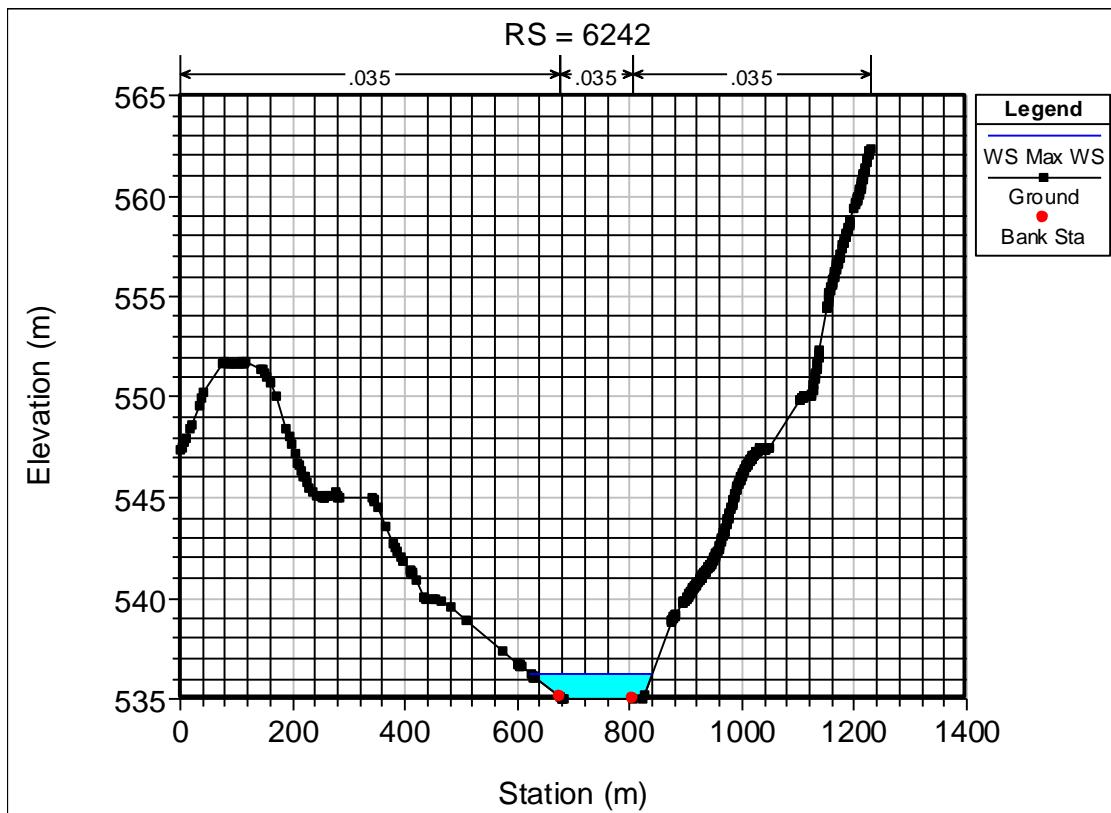


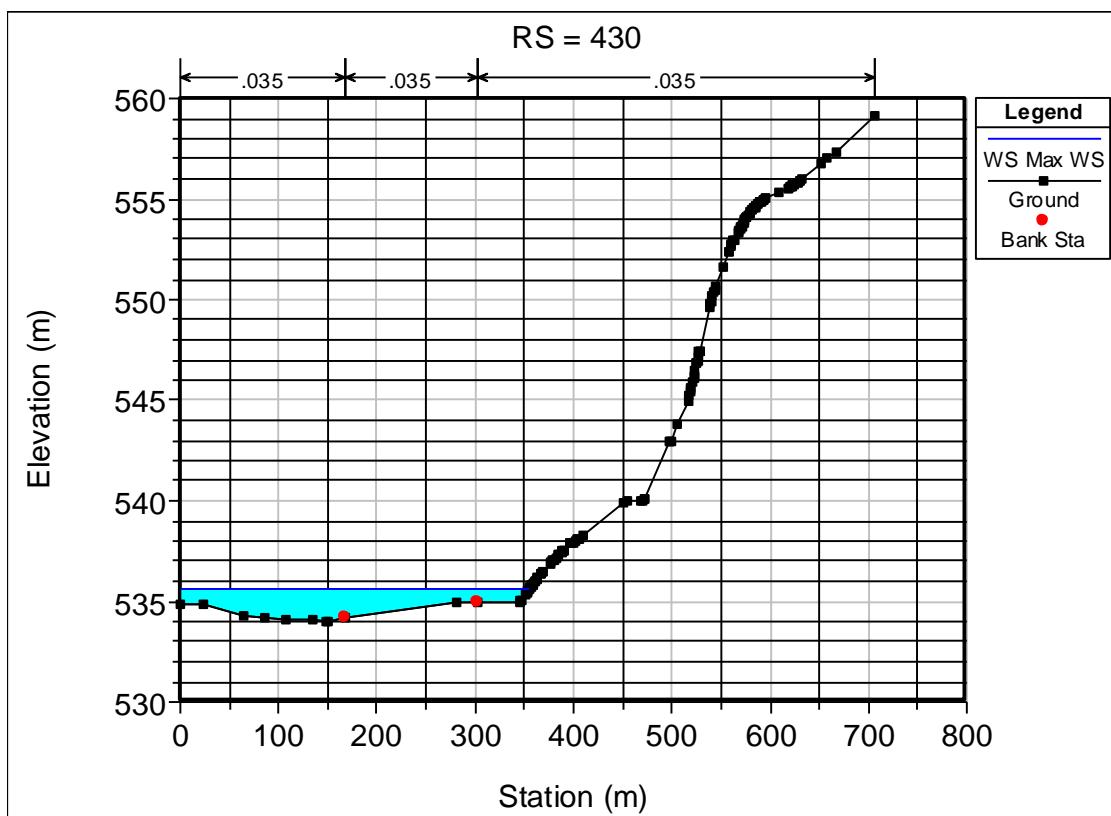
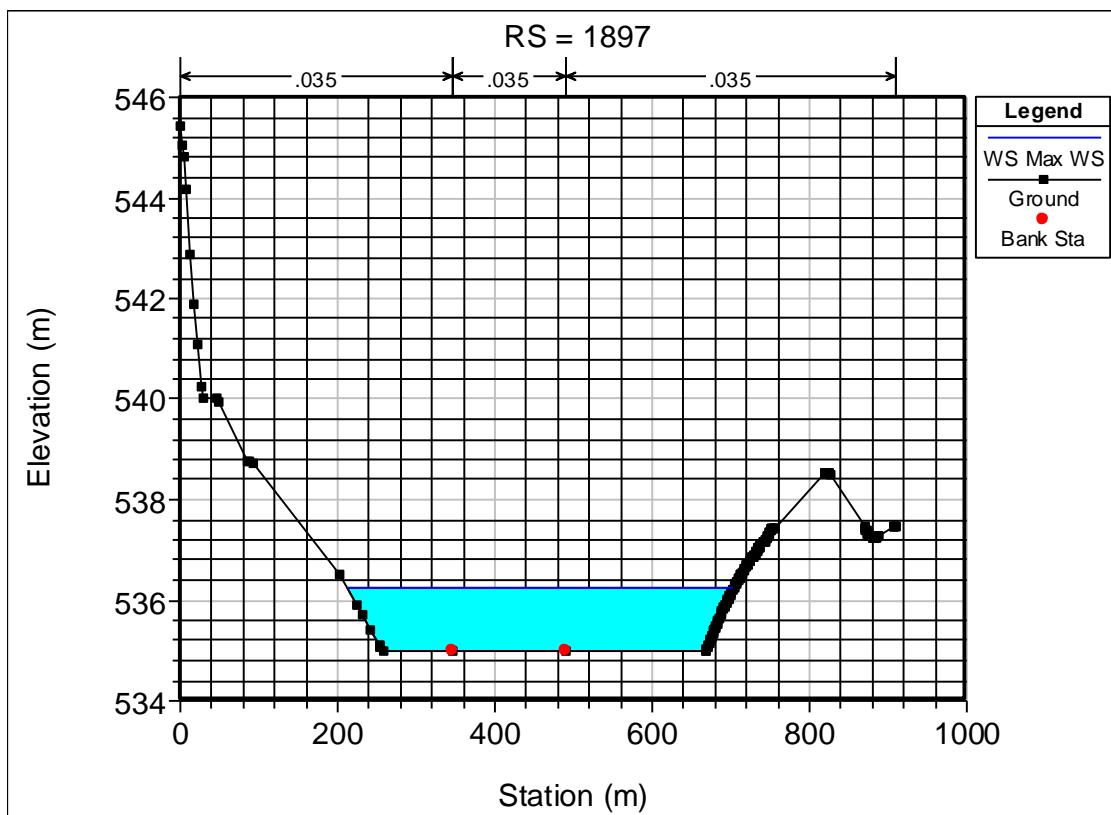




**7.4 SEÇÕES NO RIO CAPIVARI – MONTANTE DA CONFLUÊNCIA**







**7.5 RIO CAPIVARI – TRECHO DE JUSANTE DA CONFLUÊNCIA**

