



# PIANO STRUTTURALE

## i - STUDIO IDROLOGICO-IDRAULICO

### A-6 Allegato modellazione idraulica U.T.O.E. Basse di Caldana

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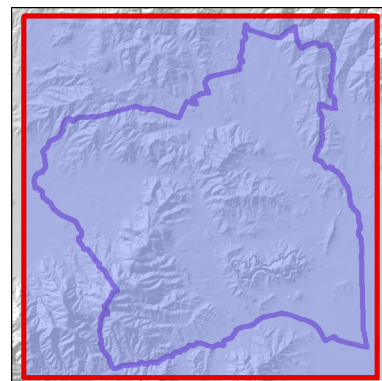
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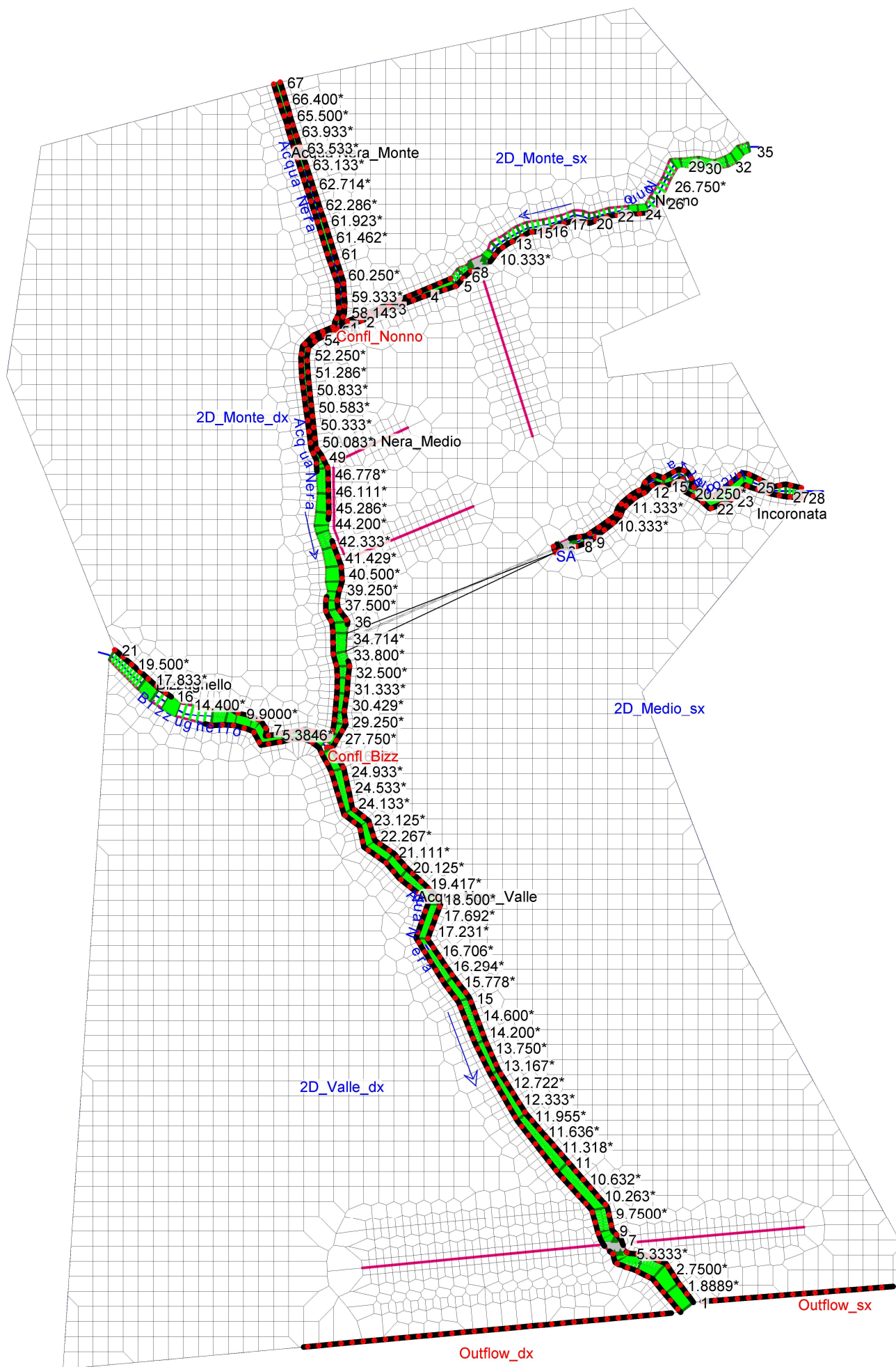
Piano Strutturale Comunale - Piano Operativo Comunale

**PS**  
**PO**

RELAZIONE IDROLOGICO-IDRAULICA  
Allegati modellazione idraulica

Zona di studio: U.T.O.E. Basse di Caldana

- Planimetria modello di calcolo Hec-Ras
- F. di Nonno - Tabella output Hec-Ras
- F. dell'Incoronata - Tabella output Hec-Ras
- F. Bizzughello - Tabella output Hec-Ras
- F. dell'Acqua Nera - Tabella output Hec-Ras
- F. di Nonno - Profilo Hec-Ras
- F. dell'Incoronata - Profilo Hec-Ras
- F. Bizzughello - Profilo Hec-Ras
- F. dell'Acqua Nera - Profilo Hec-Ras
- F. di Nonno - Sezioni Hec-Ras
- F. dell'Incoronata - Sezioni Hec-Ras
- F. Bizzughello - Sezioni Hec-Ras
- F. dell'Acqua Nera - Sezioni Hec-Ras
- Battenti Tr30 anni – Tp=0.5 ore
- Battenti Tr30 anni – Tp=1.5 ore
- Battenti Tr200 anni – Tp=0.5 ore
- Battenti Tr200 anni – Tp=1.5 ore
- Velocità Tr30 anni – Tp=0.5 ore
- Velocità Tr30 anni – Tp=1.5 ore
- Velocità Tr200 anni – Tp=0.5 ore
- Velocità Tr200 anni – Tp=1.5 ore



1 cm Horiz. = 35 m 1 cm Vert. = 35 m

| Reach | River Sta | Profile | Plan             | Q Total<br>(m3/s) | Min Ch El<br>(m) | W.S. Elev<br>(m) | Crit W.S.<br>(m) | E.G. Elev<br>(m) | E.G. Slope<br>(m/m) | Vel Chnl<br>(m/s) | Flow Area<br>(m2) | Top Width<br>(m) | Froude # Chl |
|-------|-----------|---------|------------------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| Nonno | 35        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 45.11            | 45.75            | 46.03            | 46.68            | 0.097169            | 4.28              | 1.02              | 2.61             | 2.19         |
| Nonno | 35        | Max WS  | 1D+2D_Tr200_0.5h | 7.71              | 45.11            | 45.94            | 46.30            | 47.17            | 0.095595            | 4.92              | 1.57              | 3.21             | 2.25         |
| Nonno | 35        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 45.11            | 45.64            | 45.87            | 46.41            | 0.097039            | 3.88              | 0.76              | 2.28             | 2.14         |
| Nonno | 35        | Max WS  | 1D+2D_Tr30_0.5h  | 5.42              | 45.11            | 45.81            | 46.13            | 46.86            | 0.096665            | 4.52              | 1.20              | 2.82             | 2.21         |
| Nonno | 34        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 44.66            | 45.27            | 45.46            | 45.87            | 0.053458            | 3.44              | 1.26              | 2.96             | 1.68         |
| Nonno | 34        | Max WS  | 1D+2D_Tr200_0.5h | 7.71              | 44.66            | 45.48            | 45.73            | 46.28            | 0.052243            | 3.98              | 1.94              | 3.55             | 1.72         |
| Nonno | 34        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 44.66            | 45.16            | 45.31            | 45.65            | 0.053762            | 3.10              | 0.95              | 2.65             | 1.65         |
| Nonno | 34        | Max WS  | 1D+2D_Tr30_0.5h  | 5.42              | 44.66            | 45.34            | 45.56            | 46.02            | 0.053209            | 3.65              | 1.49              | 3.17             | 1.70         |
| Nonno | 33        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 44.30            | 44.92            | 45.10            | 45.49            | 0.049931            | 3.36              | 1.30              | 3.00             | 1.63         |
| Nonno | 33        | Max WS  | 1D+2D_Tr200_0.5h | 7.70              | 44.30            | 45.15            | 45.38            | 45.87            | 0.045042            | 3.77              | 2.04              | 3.62             | 1.60         |
| Nonno | 33        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 44.30            | 44.80            | 44.95            | 45.28            | 0.053463            | 3.09              | 0.95              | 2.66             | 1.65         |
| Nonno | 33        | Max WS  | 1D+2D_Tr30_0.5h  | 5.42              | 44.30            | 45.00            | 45.20            | 45.63            | 0.048087            | 3.51              | 1.54              | 3.22             | 1.62         |
| Nonno | 32        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 44.02            | 44.74            | 44.74            | 45.00            | 0.017219            | 2.26              | 1.93              | 3.65             | 0.99         |
| Nonno | 32        | Max WS  | 1D+2D_Tr200_0.5h | 7.70              | 44.02            | 44.98            | 45.00            | 45.35            | 0.018072            | 2.69              | 2.86              | 4.24             | 1.05         |
| Nonno | 32        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 44.02            | 44.61            | 44.60            | 44.82            | 0.016790            | 2.00              | 1.47              | 3.32             | 0.96         |
| Nonno | 32        | Max WS  | 1D+2D_Tr30_0.5h  | 5.41              | 44.02            | 44.83            | 44.83            | 45.13            | 0.017548            | 2.42              | 2.24              | 3.85             | 1.01         |
| Nonno | 31        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 43.86            | 44.53            | 44.72            | 45.15            | 0.050566            | 3.48              | 1.25              | 2.62             | 1.61         |
| Nonno | 31        | Max WS  | 1D+2D_Tr200_0.5h | 7.70              | 43.86            | 44.76            | 45.02            | 45.59            | 0.050303            | 4.04              | 1.91              | 3.13             | 1.65         |
| Nonno | 31        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 43.86            | 44.41            | 44.56            | 44.91            | 0.050322            | 3.13              | 0.94              | 2.35             | 1.58         |
| Nonno | 31        | Max WS  | 1D+2D_Tr30_0.5h  | 5.41              | 43.86            | 44.61            | 44.83            | 45.31            | 0.050548            | 3.69              | 1.47              | 2.80             | 1.63         |
| Nonno | 30        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 43.40            | 44.13            | 44.12            | 44.38            | 0.016538            | 2.19              | 1.99              | 3.85             | 0.97         |
| Nonno | 30        | Max WS  | 1D+2D_Tr200_0.5h | 7.69              | 43.40            | 44.38            | 44.38            | 44.71            | 0.016627            | 2.55              | 3.01              | 4.58             | 1.00         |
| Nonno | 30        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 43.40            | 44.00            | 43.98            | 44.20            | 0.016845            | 1.97              | 1.49              | 3.45             | 0.96         |
| Nonno | 30        | Max WS  | 1D+2D_Tr30_0.5h  | 5.41              | 43.40            | 44.22            | 44.21            | 44.49            | 0.016506            | 2.32              | 2.33              | 4.11             | 0.98         |
| Nonno | 29        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 43.04            | 43.82            | 44.05            | 44.51            | 0.059211            | 3.68              | 1.18              | 2.41             | 1.68         |
| Nonno | 29        | Max WS  | 1D+2D_Tr200_0.5h | 7.69              | 43.04            | 44.04            | 44.34            | 45.01            | 0.063612            | 4.35              | 1.77              | 2.90             | 1.78         |
| Nonno | 29        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 43.04            | 43.70            | 43.87            | 44.24            | 0.056227            | 3.27              | 0.90              | 2.13             | 1.61         |
| Nonno | 29        | Max WS  | 1D+2D_Tr30_0.5h  | 5.41              | 43.04            | 43.90            | 44.16            | 44.69            | 0.060920            | 3.92              | 1.38              | 2.58             | 1.72         |
| Nonno | 28        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 42.90            | 43.60            | 43.75            | 44.08            | 0.040194            | 3.07              | 1.42              | 3.22             | 1.48         |
| Nonno | 28        | Max WS  | 1D+2D_Tr200_0.5h | 7.69              | 42.90            | 43.82            | 44.02            | 44.45            | 0.039721            | 3.53              | 2.18              | 3.93             | 1.52         |
| Nonno | 28        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 42.90            | 43.49            | 43.60            | 43.88            | 0.040190            | 2.77              | 1.06              | 2.82             | 1.44         |
| Nonno | 28        | Max WS  | 1D+2D_Tr30_0.5h  | 5.40              | 42.90            | 43.68            | 43.84            | 44.21            | 0.039979            | 3.24              | 1.67              | 3.47             | 1.49         |
| Nonno | 27        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 42.51            | 43.18            | 43.32            | 43.66            | 0.037763            | 3.06              | 1.42              | 3.02             | 1.43         |
| Nonno | 27        | Max WS  | 1D+2D_Tr200_0.5h | 7.69              | 42.51            | 43.38            | 43.60            | 44.07            | 0.040963            | 3.67              | 2.09              | 3.56             | 1.53         |
| Nonno | 27        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 42.51            | 43.06            | 43.16            | 43.44            | 0.035908            | 2.70              | 1.09              | 2.72             | 1.37         |
| Nonno | 27        | Max WS  | 1D+2D_Tr30_0.5h  | 5.40              | 42.51            | 43.25            | 43.41            | 43.80            | 0.038930            | 3.28              | 1.65              | 3.21             | 1.47         |
| Nonno | 26        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 42.00            | 42.57            | 42.72            | 43.04            | 0.047097            | 3.04              | 1.43              | 3.94             | 1.61         |
| Nonno | 26        | Max WS  | 1D+2D_Tr200_0.5h | 7.69              | 42.00            | 42.76            | 42.94            | 43.35            | 0.042790            | 3.40              | 2.26              | 4.88             | 1.60         |
| Nonno | 26        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 42.00            | 42.47            | 42.59            | 42.86            | 0.049340            | 2.79              | 1.05              | 3.42             | 1.61         |
| Nonno | 26        | Max WS  | 1D+2D_Tr30_0.5h  | 5.40              | 42.00            | 42.63            | 42.80            | 43.15            | 0.045605            | 3.18              | 1.70              | 4.27             | 1.61         |
| Nonno | 25        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 41.66            | 42.29            | 42.34            | 42.60            | 0.023875            | 2.47              | 1.76              | 3.85             | 1.17         |
| Nonno | 25        | Max WS  | 1D+2D_Tr200_0.5h | 7.69              | 41.66            | 42.50            | 42.59            | 42.93            | 0.024780            | 2.93              | 2.62              | 4.52             | 1.23         |
| Nonno | 25        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 41.66            | 42.18            | 42.21            | 42.42            | 0.023568            | 2.20              | 1.34              | 3.48             | 1.13         |
| Nonno | 25        | Max WS  | 1D+2D_Tr30_0.5h  | 5.40              | 41.66            | 42.36            | 42.43            | 42.72            | 0.024046            | 2.63              | 2.05              | 4.09             | 1.19         |
| Nonno | 24.99     |         |                  | Lat Struct        |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Nonno | 24        | Max WS  | 1D+2D_Tr200_1.5h | 4.34              | 41.45            | 42.11            | 42.18            | 42.46            | 0.026192            | 2.61              | 1.67              | 3.54             | 1.21         |
| Nonno | 24        | Max WS  | 1D+2D_Tr200_0.5h | 7.60              | 41.45            | 42.31            | 42.44            | 42.81            | 0.028325            | 3.12              | 2.44              | 4.15             | 1.30         |
| Nonno | 24        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 41.45            | 42.00            | 42.04            | 42.27            | 0.025269            | 2.31              | 1.27              | 3.18             | 1.17         |
| Nonno | 24        | Max WS  | 1D+2D_Tr30_0.5h  | 5.39              | 41.45            | 42.19            | 42.27            | 42.58            | 0.026831            | 2.79              | 1.93              | 3.76             | 1.24         |
| Nonno | 23        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 41.23            | 41.91            | 42.06            | 42.38            | 0.041374            | 3.05              | 1.43              | 3.42             | 1.50         |
| Nonno | 23        | Max WS  | 1D+2D_Tr200_0.5h | 7.57              | 41.23            | 42.10            | 42.30            | 42.74            | 0.042410            | 3.54              | 2.14              | 4.14             | 1.57         |
| Nonno | 23        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 41.23            | 41.80            | 41.91            | 42.18            | 0.040474            | 2.73              | 1.08              | 3.00             | 1.46         |
| Nonno | 23        | Max WS  | 1D+2D_Tr30_0.5h  | 5.40              | 41.23            | 41.98            | 42.14            | 42.51            | 0.041850            | 3.23              | 1.67              | 3.68             | 1.53         |
| Nonno | 22        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 40.75            | 41.39            | 41.50            | 41.79            | 0.034482            | 2.80              | 1.55              | 3.75             | 1.39         |
| Nonno | 22        | Max WS  | 1D+2D_Tr200_0.5h | 7.58              | 40.75            | 41.57            | 41.72            | 42.12            | 0.035822            | 3.29              | 2.31              | 4.47             | 1.46         |
| Nonno | 22        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 40.75            | 41.28            | 41.37            | 41.60            | 0.034291            | 2.52              | 1.17              | 3.32             | 1.35         |
| Nonno | 22        | Max WS  | 1D+2D_Tr30_0.5h  | 5.40              | 40.75            | 41.46            | 41.58            | 41.91            | 0.034764            | 2.98              | 1.81              | 4.02             | 1.41         |
| Nonno | 21        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 40.40            | 41.03            | 41.15            | 41.44            | 0.036162            | 2.82              | 1.54              | 3.86             | 1.42         |
| Nonno | 21        | Max WS  | 1D+2D_Tr200_0.5h | 7.62              | 40.40            | 41.21            | 41.37            | 41.78            | 0.037707            | 3.34              | 2.28              | 4.52             | 1.50         |
| Nonno | 21        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 40.40            | 40.93            | 41.02            | 41.25            | 0.035581            | 2.53              | 1.16              | 3.40             | 1.38         |
| Nonno | 21        | Max WS  | 1D+2D_Tr30_0.5h  | 5.39              | 40.40            | 41.10            | 41.23            | 41.55            | 0.036708            | 3.00              | 1.80              | 4.15             | 1.45         |
| Nonno | 20        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 40.22            | 40.90            | 40.98            | 41.22            | 0.030551            | 2.53              | 1.72              | 4.52             | 1.31         |
| Nonno | 20        | Max WS  | 1D+2D_Tr200_0.5h | 7.65              | 40.22            | 41.06            | 41.18            | 41.52            | 0.031694            | 2.98              | 2.57              | 5.41             | 1.38         |
| Nonno | 20        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 40.22            | 40.79            | 40.86            | 41.06            | 0.030887            | 2.30              | 1.28              | 3.92             | 1.29         |
| Nonno | 20        | Max WS  | 1D+2D_Tr30_0.5h  | 5.39              | 40.22            | 40.96            | 41.05            | 41.32            | 0.030766            | 2.68              | 2.01              | 4.88             | 1.34         |
| Nonno | 19        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 40.16            | 40.78            | 40.80            | 41.02            | 0.019766            | 2.17              | 2.00              | 4.81             | 1.07         |
| Nonno | 19        | Max WS  | 1D+2D_Tr200_0.5h | 7.62              | 40.16            | 40.94            | 41.00            | 41.31            | 0.022867            | 2.69              | 2.83              | 5.39             | 1.19         |
| Nonno | 19        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 40.16            | 40.68            | 40.68            | 40.86            | 0.018863            | 1.91              | 1.54              | 4.31             | 1.02         |
| Nonno | 19        | Max WS  | 1D+2D_Tr30_0.5h  | 5.39              | 40.16            | 40.84            | 40.87            | 41.12            | 0.020748            | 2.34              | 2.30              | 5.10             | 1.11         |
| Nonno | 18        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 40.03            | 40.67            | 40.69            | 40.91            | 0.020098            | 2.17              | 2.01              | 4.83             | 1.07         |
| Nonno | 18        | Max WS  | 1D+2D_Tr200_0.5h | 7.24              | 40.03            | 40.82            | 40.87            | 41.18            | 0.022099            | 2.65              | 2.73              | 5.04             | 1.15         |
| Nonno | 18        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 40.03            | 40.57            | 40.58            | 40.76            | 0.018888            | 1.89              | 1.55              | 4.41             | 1.02         |

| Reach | River Sta | Profile | Plan             | Q Total<br>(m3/s) | Min Ch El<br>(m) | W.S. Elev<br>(m) | Crit W.S.<br>(m) | E.G. Elev<br>(m) | E.G. Slope<br>(m/m) | Vel Chnl<br>(m/s) | Flow Area<br>(m2) | Top Width<br>(m) | Froude # Chl |
|-------|-----------|---------|------------------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| Nonno | 18        | Max WS  | 1D+2D_Tr30_0.5h  | 5.37              | 40.03            | 40.73            | 40.76            | 41.01            | 0.020891            | 2.36              | 2.28              | 4.91             | 1.11         |
| Nonno | 17        | Max WS  | 1D+2D_Tr200_1.5h | 4.06              | 39.87            | 40.46            | 40.52            | 40.78            | 0.028026            | 2.51              | 1.62              | 3.90             | 1.25         |
| Nonno | 17        | Max WS  | 1D+2D_Tr200_0.5h | 6.28              | 39.87            | 40.59            | 40.69            | 41.03            | 0.029996            | 2.95              | 2.13              | 4.09             | 1.31         |
| Nonno | 17        | Max WS  | 1D+2D_Tr30_1.5h  | 2.88              | 39.87            | 40.37            | 40.42            | 40.63            | 0.027640            | 2.23              | 1.29              | 3.78             | 1.22         |
| Nonno | 17        | Max WS  | 1D+2D_Tr30_0.5h  | 4.83              | 39.87            | 40.51            | 40.59            | 40.87            | 0.028670            | 2.68              | 1.80              | 3.97             | 1.27         |
| Nonno | 16        | Max WS  | 1D+2D_Tr200_1.5h | 4.25              | 39.53            | 40.11            | 40.19            | 40.43            | 0.030079            | 2.50              | 1.70              | 4.55             | 1.30         |
| Nonno | 16        | Max WS  | 1D+2D_Tr200_0.5h | 6.48              | 39.53            | 40.24            | 40.34            | 40.64            | 0.030450            | 2.82              | 2.30              | 5.14             | 1.34         |
| Nonno | 16        | Max WS  | 1D+2D_Tr30_1.5h  | 2.91              | 39.53            | 40.02            | 40.08            | 40.28            | 0.030649            | 2.27              | 1.28              | 4.01             | 1.28         |
| Nonno | 16        | Max WS  | 1D+2D_Tr30_0.5h  | 5.06              | 39.53            | 40.16            | 40.25            | 40.51            | 0.029970            | 2.61              | 1.94              | 4.83             | 1.32         |
| Nonno | 15        | Max WS  | 1D+2D_Tr200_1.5h | 4.27              | 39.13            | 39.74            | 39.89            | 40.23            | 0.048292            | 3.09              | 1.38              | 3.73             | 1.62         |
| Nonno | 15        | Max WS  | 1D+2D_Tr200_0.5h | 6.28              | 39.13            | 39.87            | 40.04            | 40.44            | 0.046482            | 3.37              | 1.87              | 4.31             | 1.63         |
| Nonno | 15        | Max WS  | 1D+2D_Tr30_1.5h  | 2.91              | 39.13            | 39.65            | 39.77            | 40.04            | 0.047105            | 2.78              | 1.05              | 3.28             | 1.57         |
| Nonno | 15        | Max WS  | 1D+2D_Tr30_0.5h  | 5.04              | 39.13            | 39.79            | 39.96            | 40.32            | 0.048511            | 3.23              | 1.56              | 3.96             | 1.64         |
| Nonno | 14        | Max WS  | 1D+2D_Tr200_1.5h | 4.27              | 38.92            | 39.44            | 39.58            | 39.90            | 0.049651            | 3.00              | 1.42              | 4.21             | 1.65         |
| Nonno | 14        | Max WS  | 1D+2D_Tr200_0.5h | 6.75              | 38.92            | 39.60            | 39.75            | 40.09            | 0.038279            | 3.08              | 2.19              | 5.12             | 1.50         |
| Nonno | 14        | Max WS  | 1D+2D_Tr30_1.5h  | 2.91              | 38.92            | 39.35            | 39.47            | 39.73            | 0.051940            | 2.75              | 1.06              | 3.70             | 1.64         |
| Nonno | 14        | Max WS  | 1D+2D_Tr30_0.5h  | 5.11              | 38.92            | 39.49            | 39.65            | 39.98            | 0.047494            | 3.10              | 1.65              | 4.50             | 1.63         |
| Nonno | 13        | Max WS  | 1D+2D_Tr200_1.5h | 4.27              | 38.43            | 39.07            | 39.07            | 39.32            | 0.018376            | 2.24              | 1.90              | 3.91             | 1.03         |
| Nonno | 13        | Max WS  | 1D+2D_Tr200_0.5h | 6.92              | 38.43            | 39.36            | 39.60            | 39.60            | 0.011907            | 2.20              | 3.15              | 4.72             | 0.86         |
| Nonno | 13        | Max WS  | 1D+2D_Tr30_1.5h  | 2.91              | 38.43            | 38.94            | 38.95            | 39.15            | 0.018636            | 2.02              | 1.44              | 3.56             | 1.01         |
| Nonno | 13        | Max WS  | 1D+2D_Tr30_0.5h  | 5.14              | 38.43            | 39.15            | 39.15            | 39.42            | 0.017173            | 2.31              | 2.23              | 4.14             | 1.01         |
| Nonno | 12        | Max WS  | 1D+2D_Tr200_1.5h | 4.27              | 38.21            | 38.88            | 38.96            | 39.23            | 0.028460            | 2.62              | 1.63              | 3.77             | 1.27         |
| Nonno | 12        | Max WS  | 1D+2D_Tr200_0.5h | 6.98              | 38.21            | 39.26            | 39.48            | 39.48            | 0.010873            | 2.08              | 3.35              | 5.24             | 0.83         |
| Nonno | 12        | Max WS  | 1D+2D_Tr30_1.5h  | 2.91              | 38.21            | 38.73            | 38.83            | 39.07            | 0.035732            | 2.57              | 1.13              | 3.22             | 1.38         |
| Nonno | 12        | Max WS  | 1D+2D_Tr30_0.5h  | 5.14              | 38.21            | 38.98            | 39.03            | 39.30            | 0.022042            | 2.50              | 2.06              | 4.18             | 1.14         |
| Nonno | 11        | Max WS  | 1D+2D_Tr200_1.5h | 4.27              | 38.03            | 38.76            | 38.80            | 39.06            | 0.021667            | 2.40              | 1.78              | 3.77             | 1.11         |
| Nonno | 11        | Max WS  | 1D+2D_Tr200_0.5h | 6.98              | 38.03            | 39.22            | 39.39            | 39.39            | 0.007302            | 1.84              | 3.79              | 5.11             | 0.68         |
| Nonno | 11        | Max WS  | 1D+2D_Tr30_1.5h  | 2.91              | 38.03            | 38.58            | 38.67            | 38.91            | 0.033484            | 2.54              | 1.15              | 3.11             | 1.34         |
| Nonno | 11        | Max WS  | 1D+2D_Tr30_0.5h  | 5.14              | 38.03            | 38.90            | 38.88            | 39.15            | 0.015223            | 2.21              | 2.32              | 4.24             | 0.95         |
| Nonno | 10        | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 37.77            | 38.70            |                  | 38.82            | 0.006537            | 1.58              | 2.75              | 4.19             | 0.62         |
| Nonno | 10        | Max WS  | 1D+2D_Tr200_0.5h | 7.63              | 37.77            | 39.20            |                  | 39.31            | 0.003613            | 1.48              | 5.16              | 5.44             | 0.49         |
| Nonno | 10        | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 37.77            | 38.48            |                  | 38.60            | 0.008503            | 1.55              | 1.89              | 3.67             | 0.69         |
| Nonno | 10        | Max WS  | 1D+2D_Tr30_0.5h  | 5.35              | 37.77            | 38.85            |                  | 38.98            | 0.005387            | 1.56              | 3.43              | 4.58             | 0.58         |
| Nonno | 9         | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 37.70            | 38.69            |                  | 38.80            | 0.002869            | 1.49              | 2.92              | 4.91             | 0.48         |
| Nonno | 9         | Max WS  | 1D+2D_Tr200_0.5h | 7.63              | 37.70            | 39.17            |                  | 39.33            | 0.002295            | 1.75              | 4.37              | 5.87             | 0.46         |
| Nonno | 9         | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 37.70            | 38.47            |                  | 38.55            | 0.003082            | 1.30              | 2.26              | 4.48             | 0.48         |
| Nonno | 9         | Max WS  | 1D+2D_Tr30_0.5h  | 5.35              | 37.70            | 38.84            |                  | 38.97            | 0.002666            | 1.58              | 3.37              | 5.22             | 0.48         |
| Nonno | 8.5       |         |                  | Culvert           |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Nonno | 8         | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 37.61            | 38.41            |                  | 38.59            | 0.006605            | 1.90              | 2.28              | 3.88             | 0.70         |
| Nonno | 8         | Max WS  | 1D+2D_Tr200_0.5h | 7.63              | 37.61            | 38.65            |                  | 38.98            | 0.008054            | 2.53              | 3.01              | 4.10             | 0.81         |
| Nonno | 8         | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 37.61            | 38.22            |                  | 38.37            | 0.007878            | 1.72              | 1.71              | 3.70             | 0.73         |
| Nonno | 8         | Max WS  | 1D+2D_Tr30_0.5h  | 5.35              | 37.61            | 38.50            |                  | 38.72            | 0.006819            | 2.09              | 2.56              | 3.96             | 0.72         |
| Nonno | 7         | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 37.21            | 38.41            |                  | 38.51            | 0.004001            | 1.37              | 3.17              | 3.79             | 0.48         |
| Nonno | 7         | Max WS  | 1D+2D_Tr200_0.5h | 7.63              | 37.21            | 38.64            |                  | 38.82            | 0.006176            | 1.86              | 4.09              | 4.14             | 0.60         |
| Nonno | 7         | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 37.21            | 38.22            |                  | 38.29            | 0.003629            | 1.19              | 2.47              | 3.45             | 0.45         |
| Nonno | 7         | Max WS  | 1D+2D_Tr30_0.5h  | 5.34              | 37.21            | 38.50            |                  | 38.62            | 0.004561            | 1.52              | 3.52              | 3.95             | 0.51         |
| Nonno | 6.99      |         |                  | Lat Struct        |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Nonno | 6         | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 36.87            | 38.37            |                  | 38.49            | 0.005447            | 1.50              | 2.90              | 3.44             | 0.52         |
| Nonno | 6         | Max WS  | 1D+2D_Tr200_0.5h | 7.63              | 36.87            | 38.58            |                  | 38.80            | 0.009018            | 2.08              | 3.67              | 3.86             | 0.68         |
| Nonno | 6         | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 36.87            | 38.18            |                  | 38.27            | 0.004683            | 1.29              | 2.29              | 3.07             | 0.48         |
| Nonno | 6         | Max WS  | 1D+2D_Tr30_0.5h  | 5.34              | 36.87            | 38.46            |                  | 38.60            | 0.006353            | 1.67              | 3.20              | 3.61             | 0.57         |
| Nonno | 5         | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 36.95            | 38.26            | 38.39            | 38.69            | 0.033726            | 2.90              | 1.51              | 3.67             | 1.17         |
| Nonno | 5         | Max WS  | 1D+2D_Tr200_0.5h | 7.32              | 36.95            | 38.43            | 38.60            | 39.03            | 0.040377            | 3.53              | 2.21              | 4.21             | 1.34         |
| Nonno | 5         | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 36.95            | 38.07            | 38.13            | 38.44            | 0.035083            | 2.70              | 1.09              | 1.95             | 1.15         |
| Nonno | 5         | Max WS  | 1D+2D_Tr30_0.5h  | 5.32              | 36.95            | 38.34            | 38.47            | 38.80            | 0.033818            | 3.06              | 1.83              | 4.02             | 1.20         |
| Nonno | 4.99      |         |                  | Lat Struct        |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Nonno | 4         | Max WS  | 1D+2D_Tr200_1.5h | 4.35              | 36.46            | 37.69            |                  | 38.00            | 0.018305            | 2.44              | 1.78              | 2.06             | 0.84         |
| Nonno | 4         | Max WS  | 1D+2D_Tr200_0.5h | 5.72              | 36.46            | 37.82            |                  | 38.21            | 0.022219            | 2.80              | 2.04              | 2.18             | 0.92         |
| Nonno | 4         | Max WS  | 1D+2D_Tr30_1.5h  | 2.94              | 36.46            | 37.49            |                  | 37.72            | 0.016122            | 2.12              | 1.39              | 1.87             | 0.79         |
| Nonno | 4         | Max WS  | 1D+2D_Tr30_0.5h  | 5.11              | 36.46            | 37.75            |                  | 38.12            | 0.021022            | 2.67              | 1.91              | 2.12             | 0.90         |
| Nonno | 3         | Max WS  | 1D+2D_Tr200_1.5h | 1.25              | 36.06            | 37.37            |                  | 37.39            | 0.001067            | 0.61              | 2.03              | 2.08             | 0.20         |
| Nonno | 3         | Max WS  | 1D+2D_Tr200_0.5h | 5.05              | 36.06            | 37.28            |                  | 37.66            | 0.022010            | 2.72              | 1.86              | 2.04             | 0.91         |
| Nonno | 3         | Max WS  | 1D+2D_Tr30_1.5h  | 0.55              | 36.06            | 37.21            |                  | 37.21            | 0.000325            | 0.32              | 1.70              | 2.01             | 0.11         |
| Nonno | 3         | Max WS  | 1D+2D_Tr30_0.5h  | 4.87              | 36.06            | 37.24            | 37.20            | 37.63            | 0.023530            | 2.76              | 1.76              | 2.02             | 0.94         |
| Nonno | 2         | Max WS  | 1D+2D_Tr200_1.5h | 4.29              | 35.81            | 37.27            |                  | 37.34            | 0.002708            | 1.21              | 3.56              | 3.18             | 0.36         |
| Nonno | 2         | Max WS  | 1D+2D_Tr200_0.5h | 4.59              | 35.81            | 37.09            |                  | 37.21            | 0.004903            | 1.52              | 3.01              | 3.18             | 0.50         |
| Nonno | 2         | Max WS  | 1D+2D_Tr30_1.5h  | 4.46              | 35.81            | 37.04            |                  | 37.16            | 0.005476            | 1.57              | 2.84              | 3.18             | 0.53         |
| Nonno | 2         | Max WS  | 1D+2D_Tr30_0.5h  | 4.18              | 35.81            | 36.97            |                  | 37.10            | 0.005950            | 1.59              | 2.63              | 3.18             | 0.56         |
| Nonno | 1         | Max WS  | 1D+2D_Tr200_1.5h | 4.93              | 35.53            | 37.18            |                  | 37.28            | 0.003920            | 1.42              | 3.48              | 2.75             | 0.40         |
| Nonno | 1         | Max WS  | 1D+2D_Tr200_0.5h | 3.66              | 35.53            | 37.07            |                  | 37.14            | 0.002761            | 1.15              | 3.18              | 2.75             | 0.34         |

HEC-RAS River: Nonno Reach: Nonno Profile: Max WS (Continued)

| Reach | River Sta | Profile | Plan            | Q Total<br>(m3/s) | Min Ch El<br>(m) | W.S. Elev<br>(m) | Crit W.S.<br>(m) | E.G. Elev<br>(m) | E.G. Slope<br>(m/m) | Vel Chnl<br>(m/s) | Flow Area<br>(m2) | Top Width<br>(m) | Froude # Chl |
|-------|-----------|---------|-----------------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| Nonno | 1         | Max WS  | 1D+2D_Tr30_1.5h | 3.52              | 35.53            | 37.01            |                  | 37.08            | 0.002940            | 1.17              | 3.01              | 2.75             | 0.36         |
| Nonno | 1         | Max WS  | 1D+2D_Tr30_0.5h | 3.36              | 35.53            | 36.94            |                  | 37.01            | 0.003248            | 1.20              | 2.81              | 2.75             | 0.38         |

| Reach      | River Sta | Profile | Plan             | Q Total<br>(m3/s) | Min Ch El<br>(m) | W.S. Elev<br>(m) | Crit W.S.<br>(m) | E.G. Elev<br>(m) | E.G. Slope<br>(m/m) | Vel Chnl<br>(m/s) | Flow Area<br>(m2) | Top Width<br>(m) | Froude # Chl |
|------------|-----------|---------|------------------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| Inconorata | 28        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 41.89            | 42.68            | 42.70            | 43.00            | 0.018816            | 2.48              | 2.15              | 3.70             | 1.04         |
| Inconorata | 28        | Max WS  | 1D+2D_Tr200_0.5h | 9.14              | 41.89            | 42.92            | 42.98            | 43.37            | 0.020361            | 2.95              | 3.10              | 4.30             | 1.11         |
| Inconorata | 28        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 41.89            | 42.54            | 42.53            | 42.78            | 0.017809            | 2.18              | 1.64              | 3.34             | 0.99         |
| Inconorata | 28        | Max WS  | 1D+2D_Tr30_0.5h  | 6.33              | 41.89            | 42.75            | 42.78            | 43.10            | 0.019313            | 2.62              | 2.41              | 3.88             | 1.06         |
| Inconorata | 27.99     |         |                  | Lat Struct        |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Inconorata | 27.98     |         |                  | Lat Struct        |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Inconorata | 27        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 41.78            | 42.49            | 42.51            | 42.78            | 0.019559            | 2.40              | 2.22              | 4.37             | 1.08         |
| Inconorata | 27        | Max WS  | 1D+2D_Tr200_0.5h | 9.13              | 41.78            | 42.72            | 42.76            | 43.10            | 0.019004            | 2.75              | 3.32              | 5.16             | 1.09         |
| Inconorata | 27        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 41.78            | 42.35            | 42.37            | 42.59            | 0.020638            | 2.19              | 1.63              | 3.88             | 1.08         |
| Inconorata | 27        | Max WS  | 1D+2D_Tr30_0.5h  | 6.32              | 41.78            | 42.56            | 42.59            | 42.88            | 0.019323            | 2.50              | 2.52              | 4.60             | 1.08         |
| Inconorata | 26        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 41.41            | 42.32            | 42.34            | 42.64            | 0.018776            | 2.47              | 2.15              | 3.73             | 1.04         |
| Inconorata | 26        | Max WS  | 1D+2D_Tr200_0.5h | 9.12              | 41.41            | 42.55            | 42.62            | 43.00            | 0.021583            | 2.99              | 3.05              | 4.38             | 1.14         |
| Inconorata | 26        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 41.41            | 42.19            | 42.17            | 42.42            | 0.016940            | 2.15              | 1.66              | 3.32             | 0.97         |
| Inconorata | 26        | Max WS  | 1D+2D_Tr30_0.5h  | 6.32              | 41.41            | 42.39            | 42.42            | 42.74            | 0.019654            | 2.63              | 2.40              | 3.92             | 1.07         |
| Inconorata | 25        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 41.33            | 41.98            | 42.11            | 42.43            | 0.035614            | 2.94              | 1.81              | 4.21             | 1.43         |
| Inconorata | 25        | Max WS  | 1D+2D_Tr200_0.5h | 9.12              | 41.33            | 42.17            | 42.35            | 42.77            | 0.036454            | 3.42              | 2.67              | 5.01             | 1.50         |
| Inconorata | 25        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 41.33            | 41.87            | 41.97            | 42.22            | 0.035196            | 2.63              | 1.36              | 3.71             | 1.39         |
| Inconorata | 25        | Max WS  | 1D+2D_Tr30_0.5h  | 6.31              | 41.33            | 42.04            | 42.18            | 42.52            | 0.035844            | 3.09              | 2.04              | 4.44             | 1.45         |
| Inconorata | 24        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 41.10            | 41.78            | 41.90            | 42.20            | 0.035944            | 2.88              | 1.85              | 4.52             | 1.44         |
| Inconorata | 24        | Max WS  | 1D+2D_Tr200_0.5h | 9.12              | 41.10            | 41.96            | 42.13            | 42.52            | 0.035800            | 3.30              | 2.76              | 5.46             | 1.48         |
| Inconorata | 24        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 41.10            | 41.66            | 41.76            | 42.01            | 0.036055            | 2.60              | 1.37              | 3.94             | 1.41         |
| Inconorata | 24        | Max WS  | 1D+2D_Tr30_0.5h  | 6.31              | 41.10            | 41.83            | 41.97            | 42.29            | 0.035927            | 3.01              | 2.10              | 4.79             | 1.45         |
| Inconorata | 23        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 40.58            | 41.20            | 41.31            | 41.60            | 0.033744            | 2.82              | 1.89              | 4.54             | 1.40         |
| Inconorata | 23        | Max WS  | 1D+2D_Tr200_0.5h | 9.11              | 40.58            | 41.39            | 41.54            | 41.91            | 0.031545            | 3.18              | 2.87              | 5.47             | 1.40         |
| Inconorata | 23        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 40.58            | 41.08            | 41.17            | 41.42            | 0.035535            | 2.58              | 1.38              | 3.98             | 1.40         |
| Inconorata | 23        | Max WS  | 1D+2D_Tr30_0.5h  | 6.31              | 40.58            | 41.25            | 41.38            | 41.69            | 0.033056            | 2.93              | 2.15              | 4.81             | 1.40         |
| Inconorata | 22        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 40.17            | 40.96            |                  | 41.14            | 0.011609            | 1.92              | 2.78              | 5.33             | 0.85         |
| Inconorata | 22        | Max WS  | 1D+2D_Tr200_0.5h | 9.11              | 40.17            | 41.16            |                  | 41.43            | 0.013082            | 2.31              | 3.94              | 6.24             | 0.93         |
| Inconorata | 22        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 40.17            | 40.83            |                  | 40.97            | 0.010562            | 1.66              | 2.15              | 4.77             | 0.79         |
| Inconorata | 22        | Max WS  | 1D+2D_Tr30_0.5h  | 6.30              | 40.17            | 41.01            |                  | 41.23            | 0.012062            | 2.03              | 3.10              | 5.59             | 0.87         |
| Inconorata | 21        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 40.12            | 40.81            | 40.94            | 41.26            | 0.036369            | 2.97              | 1.79              | 4.14             | 1.44         |
| Inconorata | 21        | Max WS  | 1D+2D_Tr200_0.5h | 9.11              | 40.12            | 41.00            | 41.18            | 41.60            | 0.036552            | 3.43              | 2.65              | 4.95             | 1.50         |
| Inconorata | 21        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 40.12            | 40.69            | 40.79            | 41.05            | 0.036343            | 2.67              | 1.34              | 3.64             | 1.41         |
| Inconorata | 21        | Max WS  | 1D+2D_Tr30_0.5h  | 6.30              | 40.12            | 40.86            | 41.01            | 41.35            | 0.036449            | 3.11              | 2.02              | 4.38             | 1.46         |
| Inconorata | 20        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 39.75            | 40.32            | 40.59            | 41.21            | 0.084001            | 4.18              | 1.27              | 3.25             | 2.14         |
| Inconorata | 20        | Max WS  | 1D+2D_Tr200_0.5h | 9.10              | 39.75            | 40.50            | 40.84            | 41.63            | 0.078163            | 4.71              | 1.93              | 3.88             | 2.13         |
| Inconorata | 20        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 39.75            | 40.21            | 40.43            | 40.94            | 0.087025            | 3.79              | 0.94              | 2.88             | 2.12         |
| Inconorata | 20        | Max WS  | 1D+2D_Tr30_0.5h  | 6.30              | 39.75            | 40.37            | 40.66            | 41.33            | 0.082414            | 4.35              | 1.45              | 3.43             | 2.14         |
| Inconorata | 19        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 39.37            | 40.01            | 40.23            | 40.70            | 0.058419            | 3.69              | 1.44              | 3.34             | 1.79         |
| Inconorata | 19        | Max WS  | 1D+2D_Tr200_0.5h | 9.10              | 39.37            | 40.22            | 40.49            | 41.08            | 0.052856            | 4.11              | 2.21              | 4.00             | 1.76         |
| Inconorata | 19        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 39.37            | 39.89            | 40.07            | 40.46            | 0.061021            | 3.36              | 1.06              | 2.97             | 1.79         |
| Inconorata | 19        | Max WS  | 1D+2D_Tr30_0.5h  | 6.30              | 39.37            | 40.07            | 40.31            | 40.82            | 0.056970            | 3.83              | 1.65              | 3.53             | 1.79         |
| Inconorata | 18        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 39.08            | 39.72            | 40.00            | 40.60            | 0.070601            | 4.14              | 1.28              | 2.66             | 1.90         |
| Inconorata | 18        | Max WS  | 1D+2D_Tr200_0.5h | 9.10              | 39.08            | 39.96            | 40.31            | 41.05            | 0.064196            | 4.63              | 1.97              | 3.12             | 1.86         |
| Inconorata | 18        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 39.08            | 39.60            | 39.82            | 40.30            | 0.070425            | 3.70              | 0.96              | 2.41             | 1.87         |
| Inconorata | 18        | Max WS  | 1D+2D_Tr30_0.5h  | 6.30              | 39.08            | 39.79            | 40.09            | 40.74            | 0.069735            | 4.32              | 1.46              | 2.78             | 1.91         |
| Inconorata | 17        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 38.82            | 39.53            | 39.66            | 40.00            | 0.034846            | 3.05              | 1.75              | 3.58             | 1.39         |
| Inconorata | 17        | Max WS  | 1D+2D_Tr200_0.5h | 9.10              | 38.82            | 39.79            | 39.93            | 40.34            | 0.028516            | 3.29              | 2.77              | 4.29             | 1.31         |
| Inconorata | 17        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 38.82            | 39.40            | 39.50            | 39.78            | 0.034428            | 2.71              | 1.32              | 3.24             | 1.36         |
| Inconorata | 17        | Max WS  | 1D+2D_Tr30_0.5h  | 6.30              | 38.82            | 39.60            | 39.74            | 40.10            | 0.033810            | 3.16              | 1.99              | 3.77             | 1.39         |
| Inconorata | 16        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 38.66            | 39.31            | 39.47            | 39.84            | 0.040895            | 3.25              | 1.64              | 3.48             | 1.51         |
| Inconorata | 16        | Max WS  | 1D+2D_Tr200_0.5h | 9.09              | 38.66            | 39.63            | 39.73            | 40.12            | 0.024272            | 3.11              | 2.93              | 4.41             | 1.22         |
| Inconorata | 16        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 38.66            | 39.15            | 39.31            | 39.66            | 0.052699            | 3.18              | 1.12              | 3.03             | 1.67         |
| Inconorata | 16        | Max WS  | 1D+2D_Tr30_0.5h  | 6.29              | 38.66            | 39.39            | 39.54            | 39.92            | 0.035454            | 3.23              | 1.95              | 3.72             | 1.43         |
| Inconorata | 15        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 38.22            | 39.13            | 39.19            | 39.51            | 0.023896            | 2.76              | 1.93              | 3.32             | 1.15         |
| Inconorata | 15        | Max WS  | 1D+2D_Tr200_0.5h | 9.08              | 38.22            | 39.53            |                  | 39.88            | 0.014602            | 2.63              | 3.45              | 4.32             | 0.94         |
| Inconorata | 15        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 38.22            | 38.90            | 39.01            | 39.32            | 0.035709            | 2.88              | 1.24              | 2.74             | 1.37         |
| Inconorata | 15        | Max WS  | 1D+2D_Tr30_0.5h  | 6.29              | 38.22            | 39.24            | 39.28            | 39.62            | 0.020462            | 2.72              | 2.32              | 3.60             | 1.08         |
| Inconorata | 14        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 37.86            | 39.04            |                  | 39.22            | 0.007889            | 1.85              | 2.88              | 3.69             | 0.67         |
| Inconorata | 14        | Max WS  | 1D+2D_Tr200_0.5h | 9.08              | 37.86            | 39.47            |                  | 39.67            | 0.006304            | 1.94              | 4.67              | 4.61             | 0.62         |
| Inconorata | 14        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 37.86            | 38.78            |                  | 38.94            | 0.009724            | 1.80              | 1.98              | 3.13             | 0.73         |
| Inconorata | 14        | Max WS  | 1D+2D_Tr30_0.5h  | 6.28              | 37.86            | 39.16            |                  | 39.34            | 0.007340            | 1.88              | 3.35              | 3.96             | 0.65         |
| Inconorata | 13        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 37.71            | 38.99            |                  | 39.18            | 0.008736            | 1.93              | 2.75              | 3.31             | 0.68         |
| Inconorata | 13        | Max WS  | 1D+2D_Tr200_0.5h | 9.08              | 37.71            | 39.42            |                  | 39.64            | 0.007431            | 2.08              | 4.37              | 4.08             | 0.64         |
| Inconorata | 13        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 37.71            | 38.71            |                  | 38.89            | 0.010421            | 1.87              | 1.91              | 2.83             | 0.73         |
| Inconorata | 13        | Max WS  | 1D+2D_Tr30_0.5h  | 6.28              | 37.71            | 39.11            |                  | 39.31            | 0.008275            | 1.97              | 3.18              | 3.53             | 0.66         |
| Inconorata | 12        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 37.34            | 38.91            |                  | 39.21            | 0.016383            | 2.40              | 2.21              | 1.95             | 0.72         |
| Inconorata | 12        | Max WS  | 1D+2D_Tr200_0.5h | 9.07              | 37.34            | 39.35            |                  | 39.78            | 0.019525            | 2.89              | 3.14              | 2.25             | 0.78         |
| Inconorata | 12        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 37.34            | 38.65            |                  | 38.87            | 0.014130            | 2.08              | 1.72              | 1.77             | 0.67         |
| Inconorata | 12        | Max WS  | 1D+2D_Tr30_0.5h  | 6.28              | 37.34            | 39.04            |                  | 39.37            | 0.017374            | 2.55              | 2.46              | 2.04             | 0.74         |
| Inconorata | 11        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 37.31            | 38.41            | 38.48            | 38.91            | 0.030683            | 3.13              | 1.70              | 2.18             | 1.13         |
| Inconorata | 11        | Max WS  | 1D+2D_Tr200_0.5h | 9.06              | 37.31            | 38.82            | 38.88            | 39.40            | 0.026680            | 3.37              | 2.69              | 2.65             | 1.07         |
| Inconorata | 11        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 37.31            | 38.18            | 38.25            | 38.61            | 0.033361            | 2.93              | 1.22              | 1.91             | 1.17         |
| Inconorata | 11        | Max WS  | 1D+2D_Tr30_0.5h  | 6.27              | 37.31            | 38.53            | 38.59            | 39.05            | 0.029553            | 3.21              | 1.95              | 2.31             | 1.11         |

HEC-RAS River: Inconata Reach: Inconata Profile: Max WS (Continued)

| Reach    | River Sta | Profile | Plan             | Q Total<br>(m3/s) | Min Ch El<br>(m) | W.S. Elev<br>(m) | Crit W.S.<br>(m) | E.G. Elev<br>(m) | E.G. Slope<br>(m/m) | Vel Chnl<br>(m/s) | Flow Area<br>(m2) | Top Width<br>(m) | Froude # Chl |
|----------|-----------|---------|------------------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| Inconata | 10        | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 36.78            | 38.14            |                  | 38.48            | 0.018721            | 2.58              | 2.06              | 2.26             | 0.86         |
| Inconata | 10        | Max WS  | 1D+2D_Tr200_0.5h | 9.05              | 36.78            | 38.57            |                  | 38.99            | 0.017856            | 2.87              | 3.16              | 2.73             | 0.85         |
| Inconata | 10        | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 36.78            | 37.89            |                  | 38.16            | 0.018439            | 2.33              | 1.53              | 1.99             | 0.85         |
| Inconata | 10        | Max WS  | 1D+2D_Tr30_0.5h  | 6.27              | 36.78            | 38.26            |                  | 38.62            | 0.018649            | 2.68              | 2.34              | 2.39             | 0.86         |
| Inconata | 9         | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 36.62            | 38.00            |                  | 38.13            | 0.005468            | 1.61              | 3.29              | 3.64             | 0.54         |
| Inconata | 9         | Max WS  | 1D+2D_Tr200_0.5h | 9.04              | 36.62            | 38.46            |                  | 38.61            | 0.004814            | 1.76              | 5.14              | 4.39             | 0.52         |
| Inconata | 9         | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 36.62            | 37.75            |                  | 37.86            | 0.005543            | 1.47              | 2.43              | 3.19             | 0.54         |
| Inconata | 9         | Max WS  | 1D+2D_Tr30_0.5h  | 6.26              | 36.62            | 38.12            |                  | 38.27            | 0.005338            | 1.67              | 3.76              | 3.86             | 0.54         |
| Inconata | 8         | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 36.67            | 38.01            |                  | 38.06            | 0.001594            | 1.00              | 5.32              | 5.28             | 0.32         |
| Inconata | 8         | Max WS  | 1D+2D_Tr200_0.5h | 9.04              | 36.67            | 38.47            |                  | 38.54            | 0.001505            | 1.14              | 7.95              | 5.90             | 0.31         |
| Inconata | 8         | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 36.67            | 37.75            |                  | 37.79            | 0.001548            | 0.89              | 4.03              | 4.78             | 0.31         |
| Inconata | 8         | Max WS  | 1D+2D_Tr30_0.5h  | 6.26              | 36.67            | 38.13            |                  | 38.19            | 0.001588            | 1.04              | 6.00              | 5.52             | 0.32         |
| Inconata | 7         | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 36.68            | 37.98            |                  | 38.09            | 0.002113            | 1.48              | 3.60              | 4.80             | 0.43         |
| Inconata | 7         | Max WS  | 1D+2D_Tr200_0.5h | 9.04              | 36.68            | 38.43            |                  | 38.60            | 0.002118            | 1.83              | 4.95              | 5.51             | 0.45         |
| Inconata | 7         | Max WS  | 1D+2D_Tr30_1.5h  | 3.57              | 36.68            | 37.73            |                  | 37.81            | 0.002057            | 1.25              | 2.86              | 4.41             | 0.41         |
| Inconata | 7         | Max WS  | 1D+2D_Tr30_0.5h  | 6.26              | 36.68            | 38.10            |                  | 38.22            | 0.002124            | 1.58              | 3.97              | 4.99             | 0.44         |
| Inconata | 6.5       |         | Culvert          |                   |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Inconata | 6         | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 35.23            | 36.32            |                  | 36.48            | 0.003735            | 1.75              | 3.03              | 4.10             | 0.56         |
| Inconata | 6         | Max WS  | 1D+2D_Tr200_0.5h | 9.04              | 35.23            | 36.83            |                  | 37.03            | 0.002742            | 1.97              | 4.58              | 4.58             | 0.51         |
| Inconata | 6         | Max WS  | 1D+2D_Tr30_1.5h  | 3.56              | 35.23            | 35.96            |                  | 36.13            | 0.007138            | 1.81              | 1.97              | 3.77             | 0.72         |
| Inconata | 6         | Max WS  | 1D+2D_Tr30_0.5h  | 6.26              | 35.23            | 36.40            |                  | 36.59            | 0.003998            | 1.91              | 3.28              | 4.18             | 0.58         |
| Inconata | 5         | Max WS  | 1D+2D_Tr200_1.5h | 5.32              | 35.08            | 36.34            | 35.82            | 36.42            | 0.002722            | 1.24              | 4.28              | 4.22             | 0.39         |
| Inconata | 5         | Max WS  | 1D+2D_Tr200_0.5h | 9.04              | 35.08            | 36.85            | 36.08            | 36.95            | 0.002427            | 1.38              | 6.54              | 4.64             | 0.37         |
| Inconata | 5         | Max WS  | 1D+2D_Tr30_1.5h  | 3.56              | 35.08            | 35.97            | 35.67            | 36.05            | 0.004246            | 1.29              | 2.76              | 3.87             | 0.49         |
| Inconata | 5         | Max WS  | 1D+2D_Tr30_0.5h  | 6.26              | 35.08            | 36.40            | 35.89            | 36.50            | 0.003173            | 1.38              | 4.55              | 4.28             | 0.43         |



| Reach       | River Sta | Profile | Plan             | Q Total<br>(m3/s) | Min Ch El<br>(m) | W.S. Elev<br>(m) | Crit W.S.<br>(m) | E.G. Elev<br>(m) | E.G. Slope<br>(m/m) | Vel Chnl<br>(m/s) | Flow Area<br>(m2) | Top Width<br>(m) | Froude # Chl |
|-------------|-----------|---------|------------------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| Bizzughello | 21        | Max WS  | 1D+2D_Tr200_1.5h | 39.99             | 34.87            | 37.23            | 37.30            | 38.02            | 0.016870            | 3.92              | 10.19             | 7.53             | 1.08         |
| Bizzughello | 21        | Max WS  | 1D+2D_Tr200_0.5h | 31.32             | 34.87            | 37.02            | 37.07            | 37.69            | 0.016276            | 3.62              | 8.66              | 7.22             | 1.05         |
| Bizzughello | 21        | Max WS  | 1D+2D_Tr30_1.5h  | 24.21             | 34.87            | 36.82            | 36.85            | 37.39            | 0.016076            | 3.35              | 7.22              | 6.77             | 1.04         |
| Bizzughello | 21        | Max WS  | 1D+2D_Tr30_0.5h  | 18.93             | 34.87            | 36.64            | 36.64            | 37.14            | 0.015346            | 3.12              | 6.07              | 6.10             | 1.00         |
| Bizzughello | 20.9      |         | Lat Struct       |                   |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Bizzughello | 18        | Max WS  | 1D+2D_Tr200_1.5h | 39.88             | 34.52            | 36.67            | 36.92            | 37.74            | 0.024930            | 4.58              | 8.72              | 6.88             | 1.30         |
| Bizzughello | 18        | Max WS  | 1D+2D_Tr200_0.5h | 31.29             | 34.52            | 36.48            | 36.69            | 37.39            | 0.024607            | 4.23              | 7.40              | 6.69             | 1.28         |
| Bizzughello | 18        | Max WS  | 1D+2D_Tr30_1.5h  | 24.20             | 34.52            | 36.30            | 36.46            | 37.07            | 0.023445            | 3.88              | 6.24              | 6.25             | 1.24         |
| Bizzughello | 18        | Max WS  | 1D+2D_Tr30_0.5h  | 18.91             | 34.52            | 36.15            | 36.27            | 36.79            | 0.022319            | 3.57              | 5.31              | 5.83             | 1.19         |
| Bizzughello | 17        | Max WS  | 1D+2D_Tr200_1.5h | 39.15             | 34.51            | 36.43            | 36.40            | 36.99            | 0.012692            | 3.32              | 11.79             | 9.99             | 0.98         |
| Bizzughello | 17        | Max WS  | 1D+2D_Tr200_0.5h | 30.99             | 34.51            | 36.24            | 36.22            | 36.74            | 0.013147            | 3.14              | 9.88              | 9.50             | 0.98         |
| Bizzughello | 17        | Max WS  | 1D+2D_Tr30_1.5h  | 24.14             | 34.51            | 36.06            | 36.04            | 36.50            | 0.013642            | 2.94              | 8.22              | 9.13             | 0.99         |
| Bizzughello | 17        | Max WS  | 1D+2D_Tr30_0.5h  | 18.91             | 34.51            | 35.90            | 35.90            | 36.29            | 0.014607            | 2.78              | 6.80              | 8.81             | 1.01         |
| Bizzughello | 16        | Max WS  | 1D+2D_Tr200_1.5h | 39.96             | 34.41            | 36.30            | 36.43            | 37.05            | 0.018464            | 3.84              | 10.41             | 9.71             | 1.18         |
| Bizzughello | 16        | Max WS  | 1D+2D_Tr200_0.5h | 31.27             | 34.41            | 36.09            | 36.24            | 36.79            | 0.020081            | 3.69              | 8.48              | 8.98             | 1.21         |
| Bizzughello | 16        | Max WS  | 1D+2D_Tr30_1.5h  | 24.19             | 34.41            | 35.90            | 36.04            | 36.54            | 0.022199            | 3.54              | 6.83              | 8.35             | 1.25         |
| Bizzughello | 16        | Max WS  | 1D+2D_Tr30_0.5h  | 18.90             | 34.41            | 35.73            | 35.88            | 36.35            | 0.026363            | 3.48              | 5.43              | 7.77             | 1.33         |
| Bizzughello | 15        | Max WS  | 1D+2D_Tr200_1.5h | 39.96             | 34.11            | 36.08            | 36.37            | 37.12            | 0.026875            | 4.52              | 8.84              | 8.15             | 1.39         |
| Bizzughello | 15        | Max WS  | 1D+2D_Tr200_0.5h | 31.27             | 34.11            | 35.85            | 36.15            | 36.86            | 0.030848            | 4.44              | 7.04              | 7.40             | 1.45         |
| Bizzughello | 15        | Max WS  | 1D+2D_Tr30_1.5h  | 24.19             | 34.11            | 35.63            | 35.94            | 36.60            | 0.031904            | 4.37              | 5.54              | 6.05             | 1.46         |
| Bizzughello | 15        | Max WS  | 1D+2D_Tr30_0.5h  | 18.90             | 34.11            | 35.43            | 35.75            | 36.37            | 0.036175            | 4.30              | 4.40              | 5.45             | 1.53         |
| Bizzughello | 12        | Max WS  | 1D+2D_Tr200_1.5h | 39.95             | 32.84            | 35.60            | 35.93            | 36.57            | 0.020014            | 4.38              | 9.15              | 6.35             | 1.09         |
| Bizzughello | 12        | Max WS  | 1D+2D_Tr200_0.5h | 31.24             | 32.84            | 35.34            | 35.39            | 36.17            | 0.019276            | 4.05              | 7.72              | 5.16             | 1.06         |
| Bizzughello | 12        | Max WS  | 1D+2D_Tr30_1.5h  | 24.17             | 32.84            | 35.10            | 35.10            | 35.79            | 0.017920            | 3.69              | 6.54              | 4.79             | 1.01         |
| Bizzughello | 12        | Max WS  | 1D+2D_Tr30_0.5h  | 18.88             | 32.84            | 34.85            | 34.85            | 35.47            | 0.018320            | 3.50              | 5.39              | 4.40             | 1.01         |
| Bizzughello | 11.99     |         | Lat Struct       |                   |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Bizzughello | 11        | Max WS  | 1D+2D_Tr200_1.5h | 39.94             | 32.55            | 35.48            |                  | 35.95            | 0.007195            | 3.10              | 13.73             | 10.17            | 0.73         |
| Bizzughello | 11        | Max WS  | 1D+2D_Tr200_0.5h | 31.23             | 32.55            | 35.22            |                  | 35.63            | 0.007262            | 2.89              | 11.28             | 8.78             | 0.72         |
| Bizzughello | 11        | Max WS  | 1D+2D_Tr30_1.5h  | 24.16             | 32.55            | 34.99            |                  | 35.34            | 0.006972            | 2.64              | 9.38              | 7.69             | 0.69         |
| Bizzughello | 11        | Max WS  | 1D+2D_Tr30_0.5h  | 18.88             | 32.55            | 34.73            |                  | 35.05            | 0.007534            | 2.50              | 7.58              | 6.49             | 0.71         |
| Bizzughello | 10.9      |         | Lat Struct       |                   |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Bizzughello | 10        | Max WS  | 1D+2D_Tr200_1.5h | 39.79             | 32.53            | 35.40            | 35.50            | 36.25            | 0.016292            | 4.14              | 10.11             | 7.67             | 0.99         |
| Bizzughello | 10        | Max WS  | 1D+2D_Tr200_0.5h | 31.22             | 32.53            | 35.14            | 35.25            | 35.92            | 0.017481            | 3.92              | 8.17              | 7.20             | 1.00         |
| Bizzughello | 10        | Max WS  | 1D+2D_Tr30_1.5h  | 24.16             | 32.53            | 34.91            | 34.87            | 35.56            | 0.016661            | 3.57              | 6.77              | 4.85             | 0.97         |
| Bizzughello | 10        | Max WS  | 1D+2D_Tr30_0.5h  | 18.87             | 32.53            | 34.65            | 34.61            | 35.24            | 0.017013            | 3.39              | 5.57              | 4.42             | 0.96         |
| Bizzughello | 9         | Max WS  | 1D+2D_Tr200_1.5h | 39.68             | 32.50            | 35.26            | 35.27            | 35.91            | 0.014864            | 3.56              | 11.14             | 8.73             | 1.01         |
| Bizzughello | 9         | Max WS  | 1D+2D_Tr200_0.5h | 31.21             | 32.50            | 34.99            | 34.98            | 35.60            | 0.015148            | 3.47              | 8.99              | 7.28             | 1.00         |
| Bizzughello | 9         | Max WS  | 1D+2D_Tr30_1.5h  | 24.15             | 32.50            | 34.77            | 34.73            | 35.30            | 0.014796            | 3.23              | 7.47              | 6.57             | 0.97         |
| Bizzughello | 9         | Max WS  | 1D+2D_Tr30_0.5h  | 18.87             | 32.50            | 34.50            | 34.51            | 35.04            | 0.017583            | 3.25              | 5.80              | 5.69             | 1.03         |
| Bizzughello | 8         | Max WS  | 1D+2D_Tr200_1.5h | 39.10             | 32.42            | 35.19            | 35.37            | 36.09            | 0.018874            | 4.23              | 9.58              | 8.46             | 1.06         |
| Bizzughello | 8         | Max WS  | 1D+2D_Tr200_0.5h | 31.21             | 32.42            | 34.90            | 35.11            | 35.77            | 0.021733            | 4.13              | 7.56              | 5.54             | 1.13         |
| Bizzughello | 8         | Max WS  | 1D+2D_Tr30_1.5h  | 24.15             | 32.42            | 34.69            | 34.76            | 35.41            | 0.019903            | 3.76              | 6.42              | 5.05             | 1.06         |
| Bizzughello | 8         | Max WS  | 1D+2D_Tr30_0.5h  | 18.86             | 32.42            | 34.41            | 34.49            | 35.11            | 0.022040            | 3.71              | 5.08              | 4.36             | 1.10         |
| Bizzughello | 7         | Max WS  | 1D+2D_Tr200_1.5h | 38.51             | 32.46            | 35.12            | 35.30            | 36.00            | 0.018235            | 4.20              | 9.53              | 8.54             | 1.02         |
| Bizzughello | 7         | Max WS  | 1D+2D_Tr200_0.5h | 31.19             | 32.46            | 34.82            | 34.92            | 35.70            | 0.021106            | 4.14              | 7.53              | 5.20             | 1.10         |
| Bizzughello | 7         | Max WS  | 1D+2D_Tr30_1.5h  | 24.13             | 32.46            | 34.62            | 34.66            | 35.33            | 0.018936            | 3.72              | 6.48              | 4.92             | 1.04         |
| Bizzughello | 7         | Max WS  | 1D+2D_Tr30_0.5h  | 18.85             | 32.46            | 34.32            | 34.41            | 35.02            | 0.021665            | 3.69              | 5.11              | 4.40             | 1.09         |
| Bizzughello | 6         | Max WS  | 1D+2D_Tr200_1.5h | 32.45             | 32.25            | 35.08            |                  | 35.37            | 0.004545            | 2.41              | 13.48             | 6.74             | 0.54         |
| Bizzughello | 6         | Max WS  | 1D+2D_Tr200_0.5h | 29.21             | 32.25            | 34.76            |                  | 35.10            | 0.005906            | 2.58              | 11.34             | 6.57             | 0.63         |
| Bizzughello | 6         | Max WS  | 1D+2D_Tr30_1.5h  | 23.52             | 32.25            | 34.56            |                  | 34.84            | 0.005270            | 2.33              | 10.08             | 6.37             | 0.59         |
| Bizzughello | 6         | Max WS  | 1D+2D_Tr30_0.5h  | 18.83             | 32.25            | 34.25            |                  | 34.52            | 0.006099            | 2.32              | 8.13              | 6.04             | 0.64         |
| Bizzughello | 5         | Max WS  | 1D+2D_Tr200_1.5h | 35.14             | 32.19            | 34.93            |                  | 35.59            | 0.012636            | 3.60              | 9.77              | 5.38             | 0.85         |
| Bizzughello | 5         | Max WS  | 1D+2D_Tr200_0.5h | 30.79             | 32.19            | 34.61            | 34.61            | 35.36            | 0.016672            | 3.83              | 8.04              | 5.38             | 1.00         |
| Bizzughello | 5         | Max WS  | 1D+2D_Tr30_1.5h  | 24.04             | 32.19            | 34.43            |                  | 35.02            | 0.014344            | 3.39              | 7.09              | 5.22             | 0.93         |
| Bizzughello | 5         | Max WS  | 1D+2D_Tr30_0.5h  | 18.83             | 32.19            | 34.11            | 34.11            | 34.71            | 0.017373            | 3.43              | 5.49              | 4.65             | 1.01         |
| Bizzughello | 4         | Max WS  | 1D+2D_Tr200_1.5h | 34.59             | 32.12            | 34.85            |                  | 35.60            | 0.015039            | 3.82              | 9.06              | 5.00             | 0.91         |
| Bizzughello | 4         | Max WS  | 1D+2D_Tr200_0.5h | 30.53             | 32.12            | 34.50            | 34.60            | 35.39            | 0.021228            | 4.18              | 7.31              | 5.00             | 1.10         |
| Bizzughello | 4         | Max WS  | 1D+2D_Tr30_1.5h  | 24.00             | 32.12            | 34.34            | 34.36            | 35.04            | 0.018087            | 3.70              | 6.49              | 4.87             | 1.02         |
| Bizzughello | 4         | Max WS  | 1D+2D_Tr30_0.5h  | 18.79             | 32.12            | 33.99            | 34.11            | 34.74            | 0.023208            | 3.83              | 4.91              | 4.27             | 1.14         |
| Bizzughello | 3         | Max WS  | 1D+2D_Tr200_1.5h | 35.61             | 31.99            | 34.74            |                  | 35.25            | 0.008899            | 3.14              | 11.33             | 6.42             | 0.76         |
| Bizzughello | 3         | Max WS  | 1D+2D_Tr200_0.5h | 28.37             | 31.99            | 34.34            |                  | 34.88            | 0.011696            | 3.23              | 8.78              | 6.42             | 0.88         |
| Bizzughello | 3         | Max WS  | 1D+2D_Tr30_1.5h  | 23.89             | 31.99            | 34.20            |                  | 34.67            | 0.011437            | 3.05              | 7.85              | 6.36             | 0.88         |
| Bizzughello | 3         | Max WS  | 1D+2D_Tr30_0.5h  | 15.76             | 31.99            | 33.82            |                  | 34.22            | 0.012154            | 2.81              | 5.62              | 5.44             | 0.88         |
| Bizzughello | 2         | Max WS  | 1D+2D_Tr200_1.5h | 34.62             | 31.54            | 34.79            |                  | 35.01            | 0.002992            | 2.07              | 16.69             | 7.82             | 0.45         |
| Bizzughello | 2         | Max WS  | 1D+2D_Tr200_0.5h | 23.86             | 31.54            | 34.34            |                  | 34.51            | 0.002764            | 1.81              | 13.22             | 7.82             | 0.44         |
| Bizzughello | 2         | Max WS  | 1D+2D_Tr30_1.5h  | 23.55             | 31.54            | 34.17            |                  | 34.37            | 0.003668            | 1.98              | 11.87             | 7.78             | 0.51         |
| Bizzughello | 2         | Max WS  | 1D+2D_Tr30_0.5h  | 14.74             | 31.54            | 33.79            |                  | 33.93            | 0.003062            | 1.63              | 9.04              | 7.15             | 0.46         |
| Bizzughello | 1         | Max WS  | 1D+2D_Tr200_1.5h | 29.46             | 31.55            | 34.75            |                  | 35.03            | 0.004535            | 2.33              | 12.63             | 6.17             | 0.52         |
| Bizzughello | 1         | Max WS  | 1D+2D_Tr200_0.5h | 23.89             | 31.55            | 34.28            |                  | 34.59            | 0.006167            | 2.47              | 9.69              | 5.98             | 0.62         |
| Bizzughello | 1         | Max WS  | 1D+2D_Tr30_1.5h  | 23.22             | 31.55            | 34.10            |                  | 34.47            | 0.007818            | 2.68              | 8.68              | 5.76             | 0.70         |
| Bizzughello | 1         | Max WS  | 1D+2D_Tr30_0.5h  | 14.55             | 31.55            | 33.73            |                  | 33.98            | 0.006350            | 2.20              | 6.62              | 5.21             | 0.62         |

| Reach            | River Sta | Profile | Plan             | Q Total<br>(m3/s) | Min Ch El<br>(m) | W.S. Elev<br>(m) | Crit W.S.<br>(m) | E.G. Elev<br>(m) | E.G. Slope<br>(m/m) | Vel Chnl<br>(m/s) | Flow Area<br>(m2) | Top Width<br>(m) | Froude # Chl |
|------------------|-----------|---------|------------------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| Acqua Nera_Monte | 67        | Max WS  | 1D+2D_Tr200_1.5h | 35.74             | 37.68            | 39.71            | 39.89            | 40.85            | 0.025865            | 4.73              | 7.55              | 4.52             | 1.17         |
| Acqua Nera_Monte | 67        | Max WS  | 1D+2D_Tr200_0.5h | 27.32             | 37.68            | 39.48            | 39.59            | 40.38            | 0.022569            | 4.19              | 6.53              | 4.52             | 1.11         |
| Acqua Nera_Monte | 67        | Max WS  | 1D+2D_Tr30_1.5h  | 23.05             | 37.68            | 39.36            | 39.42            | 40.12            | 0.020717            | 3.87              | 5.96              | 4.52             | 1.08         |
| Acqua Nera_Monte | 67        | Max WS  | 1D+2D_Tr30_0.5h  | 18.00             | 37.68            | 39.19            | 39.21            | 39.80            | 0.018286            | 3.45              | 5.22              | 4.52             | 1.02         |
| Acqua Nera_Monte | 66.99     |         |                  | Lat Struct        |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Acqua Nera_Monte | 66.98     |         |                  | Lat Struct        |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Acqua Nera_Monte | 66        | Max WS  | 1D+2D_Tr200_1.5h | 23.85             | 37.49            | 39.27            | 39.30            | 40.03            | 0.019810            | 3.86              | 6.18              | 4.33             | 1.03         |
| Acqua Nera_Monte | 66        | Max WS  | 1D+2D_Tr200_0.5h | 18.66             | 37.49            | 39.10            | 39.08            | 39.70            | 0.017350            | 3.44              | 5.43              | 4.33             | 0.98         |
| Acqua Nera_Monte | 66        | Max WS  | 1D+2D_Tr30_1.5h  | 16.02             | 37.49            | 39.01            | 38.97            | 39.53            | 0.015955            | 3.19              | 5.02              | 4.33             | 0.95         |
| Acqua Nera_Monte | 66        | Max WS  | 1D+2D_Tr30_0.5h  | 12.88             | 37.49            | 38.88            |                  | 39.30            | 0.014121            | 2.87              | 4.49              | 4.33             | 0.90         |
| Acqua Nera_Monte | 65        | Max WS  | 1D+2D_Tr200_1.5h | 19.99             | 37.46            | 39.08            | 39.28            | 40.08            | 0.031786            | 4.43              | 4.51              | 3.45             | 1.24         |
| Acqua Nera_Monte | 65        | Max WS  | 1D+2D_Tr200_0.5h | 15.81             | 37.46            | 38.93            | 39.06            | 39.73            | 0.027588            | 3.95              | 4.00              | 3.45             | 1.17         |
| Acqua Nera_Monte | 65        | Max WS  | 1D+2D_Tr30_1.5h  | 13.67             | 37.46            | 38.85            | 38.94            | 39.54            | 0.025251            | 3.68              | 3.72              | 3.45             | 1.13         |
| Acqua Nera_Monte | 65        | Max WS  | 1D+2D_Tr30_0.5h  | 11.14             | 37.46            | 38.75            | 38.79            | 39.31            | 0.022171            | 3.31              | 3.36              | 3.45             | 1.07         |
| Acqua Nera_Monte | 64        | Max WS  | 1D+2D_Tr200_1.5h | 17.67             | 37.44            | 38.94            | 39.00            | 39.63            | 0.021741            | 3.67              | 4.81              | 3.99             | 1.07         |
| Acqua Nera_Monte | 64        | Max WS  | 1D+2D_Tr200_0.5h | 14.05             | 37.44            | 38.81            | 38.82            | 39.36            | 0.018963            | 3.27              | 4.29              | 3.99             | 1.01         |
| Acqua Nera_Monte | 64        | Max WS  | 1D+2D_Tr30_1.5h  | 12.21             | 37.44            | 38.74            | 38.72            | 39.21            | 0.017421            | 3.05              | 4.01              | 3.99             | 0.97         |
| Acqua Nera_Monte | 64        | Max WS  | 1D+2D_Tr30_0.5h  | 10.05             | 37.44            | 38.65            |                  | 39.04            | 0.015455            | 2.76              | 3.65              | 3.99             | 0.92         |
| Acqua Nera_Monte | 63        | Max WS  | 1D+2D_Tr200_1.5h | 10.01             | 37.31            | 38.50            |                  | 38.80            | 0.011240            | 2.43              | 4.12              | 4.34             | 0.80         |
| Acqua Nera_Monte | 63        | Max WS  | 1D+2D_Tr200_0.5h | 8.61              | 37.31            | 38.42            |                  | 38.69            | 0.010716            | 2.28              | 3.78              | 4.34             | 0.78         |
| Acqua Nera_Monte | 63        | Max WS  | 1D+2D_Tr30_1.5h  | 7.86              | 37.31            | 38.38            |                  | 38.62            | 0.010473            | 2.20              | 3.58              | 4.34             | 0.77         |
| Acqua Nera_Monte | 63        | Max WS  | 1D+2D_Tr30_0.5h  | 6.94              | 37.31            | 38.32            |                  | 38.54            | 0.010244            | 2.09              | 3.31              | 4.34             | 0.77         |
| Acqua Nera_Monte | 62        | Max WS  | 1D+2D_Tr200_1.5h | 8.85              | 36.98            | 38.13            |                  | 38.40            | 0.010447            | 2.27              | 3.90              | 4.47             | 0.78         |
| Acqua Nera_Monte | 62        | Max WS  | 1D+2D_Tr200_0.5h | 7.76              | 36.98            | 38.07            |                  | 38.30            | 0.010106            | 2.15              | 3.61              | 4.47             | 0.77         |
| Acqua Nera_Monte | 62        | Max WS  | 1D+2D_Tr30_1.5h  | 7.16              | 36.98            | 38.03            |                  | 38.25            | 0.010037            | 2.09              | 3.42              | 4.47             | 0.76         |
| Acqua Nera_Monte | 62        | Max WS  | 1D+2D_Tr30_0.5h  | 6.39              | 36.98            | 37.97            |                  | 38.18            | 0.010024            | 2.01              | 3.17              | 4.47             | 0.76         |
| Acqua Nera_Monte | 61        | Max WS  | 1D+2D_Tr200_1.5h | 8.11              | 36.75            | 37.91            |                  | 38.13            | 0.008606            | 2.06              | 3.94              | 4.65             | 0.71         |
| Acqua Nera_Monte | 61        | Max WS  | 1D+2D_Tr200_0.5h | 7.21              | 36.75            | 37.85            |                  | 38.05            | 0.008476            | 1.97              | 3.65              | 4.65             | 0.71         |
| Acqua Nera_Monte | 61        | Max WS  | 1D+2D_Tr30_1.5h  | 6.65              | 36.75            | 37.81            |                  | 38.00            | 0.008377            | 1.91              | 3.47              | 4.65             | 0.71         |
| Acqua Nera_Monte | 61        | Max WS  | 1D+2D_Tr30_0.5h  | 5.91              | 36.75            | 37.76            |                  | 37.93            | 0.008237            | 1.83              | 3.23              | 4.65             | 0.70         |
| Acqua Nera_Monte | 60        | Max WS  | 1D+2D_Tr200_1.5h | 8.73              | 36.58            | 37.70            |                  | 38.04            | 0.014400            | 2.57              | 3.39              | 4.16             | 0.91         |
| Acqua Nera_Monte | 60        | Max WS  | 1D+2D_Tr200_0.5h | 7.79              | 36.58            | 37.64            |                  | 37.95            | 0.014250            | 2.47              | 3.15              | 4.16             | 0.91         |
| Acqua Nera_Monte | 60        | Max WS  | 1D+2D_Tr30_1.5h  | 7.21              | 36.58            | 37.61            |                  | 37.90            | 0.014061            | 2.40              | 3.00              | 4.16             | 0.90         |
| Acqua Nera_Monte | 60        | Max WS  | 1D+2D_Tr30_0.5h  | 6.42              | 36.58            | 37.56            |                  | 37.82            | 0.013764            | 2.30              | 2.80              | 4.16             | 0.89         |
| Acqua Nera_Monte | 59        | Max WS  | 1D+2D_Tr200_1.5h | 8.73              | 36.46            | 37.47            | 37.48            | 37.86            | 0.018213            | 2.80              | 3.12              | 4.16             | 1.03         |
| Acqua Nera_Monte | 59        | Max WS  | 1D+2D_Tr200_0.5h | 7.87              | 36.46            | 37.41            | 37.43            | 37.79            | 0.018808            | 2.74              | 2.87              | 4.16             | 1.05         |
| Acqua Nera_Monte | 59        | Max WS  | 1D+2D_Tr30_1.5h  | 7.35              | 36.46            | 37.37            | 37.40            | 37.74            | 0.019120            | 2.69              | 2.73              | 4.16             | 1.06         |
| Acqua Nera_Monte | 59        | Max WS  | 1D+2D_Tr30_0.5h  | 6.64              | 36.46            | 37.33            | 37.35            | 37.68            | 0.019372            | 2.62              | 2.54              | 4.16             | 1.07         |
| Acqua Nera_Monte | 58        | Max WS  | 1D+2D_Tr200_1.5h | 8.49              | 36.08            | 37.30            | 37.45            | 37.92            | 0.041294            | 3.49              | 2.43              | 3.43             | 1.32         |
| Acqua Nera_Monte | 58        | Max WS  | 1D+2D_Tr200_0.5h | 7.75              | 36.08            | 37.23            | 37.39            | 37.87            | 0.047374            | 3.54              | 2.19              | 3.43             | 1.42         |
| Acqua Nera_Monte | 58        | Max WS  | 1D+2D_Tr30_1.5h  | 7.29              | 36.08            | 37.19            | 37.36            | 37.84            | 0.051678            | 3.57              | 2.04              | 3.43             | 1.48         |
| Acqua Nera_Monte | 58        | Max WS  | 1D+2D_Tr30_0.5h  | 6.63              | 36.08            | 37.13            | 37.32            | 37.78            | 0.056692            | 3.57              | 1.86              | 3.43             | 1.55         |
| Acqua Nera_Monte | 57        | Max WS  | 1D+2D_Tr200_1.5h | 8.49              | 35.81            | 37.18            |                  | 37.51            | 0.013009            | 2.53              | 3.36              | 3.71             | 0.85         |
| Acqua Nera_Monte | 57        | Max WS  | 1D+2D_Tr200_0.5h | 7.86              | 35.81            | 37.09            |                  | 37.43            | 0.014953            | 2.60              | 3.02              | 3.60             | 0.91         |
| Acqua Nera_Monte | 57        | Max WS  | 1D+2D_Tr30_1.5h  | 7.36              | 35.81            | 37.03            |                  | 37.38            | 0.015912            | 2.62              | 2.81              | 3.54             | 0.94         |
| Acqua Nera_Monte | 57        | Max WS  | 1D+2D_Tr30_0.5h  | 6.70              | 35.81            | 36.96            | 36.94            | 37.31            | 0.017066            | 2.62              | 2.56              | 3.45             | 0.97         |
| Acqua Nera_Monte | 56        | Max WS  | 1D+2D_Tr200_1.5h | 8.28              | 35.68            | 37.18            |                  | 37.36            | 0.006003            | 1.87              | 4.43              | 4.21             | 0.58         |
| Acqua Nera_Monte | 56        | Max WS  | 1D+2D_Tr200_0.5h | 7.86              | 35.68            | 37.07            |                  | 37.27            | 0.007269            | 1.98              | 3.97              | 4.07             | 0.64         |
| Acqua Nera_Monte | 56        | Max WS  | 1D+2D_Tr30_1.5h  | 7.36              | 35.68            | 37.01            |                  | 37.21            | 0.007546            | 1.97              | 3.73              | 3.99             | 0.65         |
| Acqua Nera_Monte | 56        | Max WS  | 1D+2D_Tr30_0.5h  | 6.70              | 35.68            | 36.94            |                  | 37.13            | 0.007789            | 1.95              | 3.44              | 3.89             | 0.66         |
| Acqua Nera_Medio | 55        | Max WS  | 1D+2D_Tr200_1.5h | 13.20             | 35.37            | 37.18            | 37.18            | 37.88            | 0.027003            | 3.71              | 3.56              | 2.54             | 1.00         |
| Acqua Nera_Medio | 55        | Max WS  | 1D+2D_Tr200_0.5h | 11.53             | 35.37            | 37.07            | 37.06            | 37.70            | 0.025495            | 3.51              | 3.28              | 2.54             | 0.99         |
| Acqua Nera_Medio | 55        | Max WS  | 1D+2D_Tr30_1.5h  | 10.88             | 35.37            | 37.01            | 37.01            | 37.63            | 0.025745            | 3.48              | 3.13              | 2.54             | 1.00         |
| Acqua Nera_Medio | 55        | Max WS  | 1D+2D_Tr30_0.5h  | 10.06             | 35.37            | 36.94            | 36.95            | 37.53            | 0.025946            | 3.42              | 2.94              | 2.54             | 1.01         |
| Acqua Nera_Medio | 54.99     |         |                  | Lat Struct        |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Acqua Nera_Medio | 54.98     |         |                  | Lat Struct        |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Acqua Nera_Medio | 54        | Max WS  | 1D+2D_Tr200_1.5h | 8.13              | 35.01            | 37.05            |                  | 37.22            | 0.006874            | 1.81              | 4.50              | 3.72             | 0.53         |
| Acqua Nera_Medio | 54        | Max WS  | 1D+2D_Tr200_0.5h | 7.32              | 35.01            | 36.95            |                  | 37.11            | 0.007155            | 1.78              | 4.12              | 3.72             | 0.54         |
| Acqua Nera_Medio | 54        | Max WS  | 1D+2D_Tr30_1.5h  | 7.02              | 35.01            | 36.87            |                  | 37.04            | 0.008200            | 1.84              | 3.82              | 3.72             | 0.58         |
| Acqua Nera_Medio | 54        | Max WS  | 1D+2D_Tr30_0.5h  | 6.66              | 35.01            | 36.77            |                  | 36.96            | 0.009886            | 1.93              | 3.46              | 3.72             | 0.64         |
| Acqua Nera_Medio | 53        | Max WS  | 1D+2D_Tr200_1.5h | 9.74              | 34.82            | 37.02            |                  | 37.13            | 0.003042            | 1.49              | 6.54              | 4.03             | 0.37         |
| Acqua Nera_Medio | 53        | Max WS  | 1D+2D_Tr200_0.5h | 8.75              | 34.82            | 36.94            |                  | 37.04            | 0.002809            | 1.41              | 6.23              | 4.03             | 0.36         |
| Acqua Nera_Medio | 53        | Max WS  | 1D+2D_Tr30_1.5h  | 8.41              | 34.82            | 36.83            |                  | 36.94            | 0.003159            | 1.45              | 5.80              | 4.03             | 0.39         |
| Acqua Nera_Medio | 53        | Max WS  | 1D+2D_Tr30_0.5h  | 8.00              | 34.82            | 36.72            |                  | 36.84            | 0.003553            | 1.49              | 5.36              | 4.03             | 0.41         |
| Acqua Nera_Medio | 52        | Max WS  | 1D+2D_Tr200_1.5h | 10.41             | 34.60            | 36.99            |                  | 37.12            | 0.003526            | 1.59              | 6.53              | 4.07             | 0.40         |
| Acqua Nera_Medio | 52        | Max WS  | 1D+2D_Tr200_0.5h | 9.32              | 34.60            | 36.93            |                  | 37.04            | 0.003135            | 1.48              | 6.29              | 4.07             | 0.38         |
| Acqua Nera_Medio | 52        | Max WS  | 1D+2D_Tr30_1.5h  | 9.39              | 34.60            | 36.79            |                  | 36.93            | 0.004095            | 1.64              | 5.74              | 4.07             | 0.44         |
| Acqua Nera_Medio | 52        | Max WS  | 1D+2D_Tr30_0.5h  | 9.16              | 34.60            | 36.66            |                  | 36.82            | 0.005104            | 1.76              | 5.21              | 4.07             | 0.50         |
| Acqua Nera_Medio | 51        | Max WS  | 1D+2D_Tr200_1.5h | 12.62             | 34.55            | 36.85            |                  | 37.08            | 0.006969            | 2.13              | 5.92              | 4.28             | 0.58         |
| Acqua Nera_Medio | 51        | Max WS  | 1D+2D_Tr200_0.5h | 12.32             | 34.55            | 36.78            |                  | 37.03            | 0.007649            | 2.19              | 5.63              | 4.28             | 0.61         |
| Acqua Nera_Medio | 51        | Max WS  | 1D+2D_Tr30_1.5h  | 11.57             | 34.55            | 36.67            |                  | 36.92            | 0.007389            | 2.23              | 5.18              | 3.56             | 0.59         |
| Acqua Nera_Medio | 51        | Max WS  | 1D+2D_Tr30_0.5h  | 10.77             | 34.55            | 36.54            |                  | 36.80            | 0.008236            | 2.29              | 4.71              | 3.48             | 0.63         |
| Acqua Nera_Medio | 50        | Max WS  | 1D+2D_Tr200_1.5h | 23.76             | 34.08            | 36.20            | 36.41            | 37.34            | 0.033446            | 4.71              | 5.04              | 3.23             | 1.20         |
| Acqua Nera_Medio | 50        | Max WS  | 1D+2D_Tr200_0.5h | 23.89             | 34.08            | 35.96            | 36.42            | 37.57            | 0.053265            | 5.62              | 4.25              | 3.23             | 1.57         |
| Acqua Nera_Medio | 50        | Max WS  | 1D+2D_Tr30_1.5h  | 21.34             | 34.08            | 35.81            | 36.29            | 37.45            | 0.059088            | 5.67              | 3.76              | 3.23             | 1.68         |
| Acqua Nera_Medio | 50        | Max WS  | 1D+2D_Tr30_0.5h  | 17.86             | 34.08            | 35.60            | 36.10            | 37.29            | 0.069647            | 5.75              | 3.10              | 3.15             | 1.85         |
| Acqua Nera_Medio | 49        | Max WS  | 1D+2D_Tr200_1.5h | 35.40             | 33.11            | 35.99            | 36.00            | 36.92            | 0.020195            | 4.25              | 8.32              | 4.56             | 1.01         |

HEC-RAS Profile: Max WS (Continued)

| Reach            | River Sta | Profile | Plan             | Q Total<br>(m3/s) | Min Ch El<br>(m) | W.S. Elev<br>(m) | Crit W.S.<br>(m) | E.G. Elev<br>(m) | E.G. Slope<br>(m/m) | Vel Chnl<br>(m/s) | Flow Area<br>(m2) | Top Width<br>(m) | Froude # Chl |
|------------------|-----------|---------|------------------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| Acqua Nera_Medio | 49        | Max WS  | 1D+2D_Tr200_0.5h | 28.08             | 33.11            | 35.67            | 35.72            | 36.52            | 0.021308            | 4.09              | 6.87              | 4.42             | 1.05         |
| Acqua Nera_Medio | 49        | Max WS  | 1D+2D_Tr30_1.5h  | 23.50             | 33.11            | 35.50            | 35.53            | 36.25            | 0.020345            | 3.84              | 6.12              | 4.27             | 1.02         |
| Acqua Nera_Medio | 49        | Max WS  | 1D+2D_Tr30_0.5h  | 18.40             | 33.11            | 35.27            | 35.28            | 35.92            | 0.019979            | 3.58              | 5.15              | 4.05             | 1.01         |
| Acqua Nera_Medio | 48        | Max WS  | 1D+2D_Tr200_1.5h | 36.43             | 33.17            | 35.93            |                  | 36.59            | 0.012706            | 3.61              | 10.09             | 5.83             | 0.88         |
| Acqua Nera_Medio | 48        | Max WS  | 1D+2D_Tr200_0.5h | 27.80             | 33.17            | 35.61            |                  | 36.18            | 0.012668            | 3.37              | 8.26              | 5.44             | 0.87         |
| Acqua Nera_Medio | 48        | Max WS  | 1D+2D_Tr30_1.5h  | 23.41             | 33.17            | 35.44            |                  | 35.95            | 0.012154            | 3.18              | 7.37              | 5.15             | 0.85         |
| Acqua Nera_Medio | 48        | Max WS  | 1D+2D_Tr30_0.5h  | 18.39             | 33.17            | 35.21            |                  | 35.65            | 0.011798            | 2.96              | 6.21              | 4.76             | 0.83         |
| Acqua Nera_Medio | 47        | Max WS  | 1D+2D_Tr200_1.5h | 36.28             | 33.14            | 35.89            |                  | 36.48            | 0.011246            | 3.42              | 10.61             | 6.58             | 0.86         |
| Acqua Nera_Medio | 47        | Max WS  | 1D+2D_Tr200_0.5h | 27.61             | 33.14            | 35.56            |                  | 36.09            | 0.011418            | 3.22              | 8.58              | 5.94             | 0.85         |
| Acqua Nera_Medio | 47        | Max WS  | 1D+2D_Tr30_1.5h  | 23.36             | 33.14            | 35.40            |                  | 35.88            | 0.011226            | 3.07              | 7.62              | 5.61             | 0.84         |
| Acqua Nera_Medio | 47        | Max WS  | 1D+2D_Tr30_0.5h  | 18.39             | 33.14            | 35.16            |                  | 35.59            | 0.011209            | 2.89              | 6.36              | 5.15             | 0.83         |
| Acqua Nera_Medio | 46        | Max WS  | 1D+2D_Tr200_1.5h | 36.10             | 32.98            | 35.68            |                  | 36.37            | 0.013527            | 3.67              | 9.83              | 6.08             | 0.92         |
| Acqua Nera_Medio | 46        | Max WS  | 1D+2D_Tr200_0.5h | 27.30             | 32.98            | 35.36            |                  | 35.96            | 0.013586            | 3.43              | 7.95              | 5.49             | 0.91         |
| Acqua Nera_Medio | 46        | Max WS  | 1D+2D_Tr30_1.5h  | 23.29             | 32.98            | 35.19            |                  | 35.75            | 0.013517            | 3.30              | 7.07              | 5.20             | 0.90         |
| Acqua Nera_Medio | 46        | Max WS  | 1D+2D_Tr30_0.5h  | 18.39             | 32.98            | 34.96            |                  | 35.45            | 0.013577            | 3.12              | 5.90              | 4.77             | 0.89         |
| Acqua Nera_Medio | 45        | Max WS  | 1D+2D_Tr200_1.5h | 36.08             | 32.88            | 35.53            |                  | 36.12            | 0.011191            | 3.39              | 10.63             | 6.82             | 0.87         |
| Acqua Nera_Medio | 45        | Max WS  | 1D+2D_Tr200_0.5h | 27.27             | 32.88            | 35.20            |                  | 35.73            | 0.011554            | 3.21              | 8.51              | 6.12             | 0.87         |
| Acqua Nera_Medio | 45        | Max WS  | 1D+2D_Tr30_1.5h  | 23.28             | 32.88            | 35.03            |                  | 35.52            | 0.011686            | 3.10              | 7.52              | 5.77             | 0.87         |
| Acqua Nera_Medio | 45        | Max WS  | 1D+2D_Tr30_0.5h  | 18.39             | 32.88            | 34.80            |                  | 35.24            | 0.012119            | 2.96              | 6.21              | 5.27             | 0.87         |
| Acqua Nera_Medio | 44        | Max WS  | 1D+2D_Tr200_1.5h | 36.07             | 32.80            | 35.44            |                  | 35.91            | 0.008220            | 3.02              | 11.93             | 7.38             | 0.76         |
| Acqua Nera_Medio | 44        | Max WS  | 1D+2D_Tr200_0.5h | 27.25             | 32.80            | 35.11            |                  | 35.52            | 0.008343            | 2.84              | 9.61              | 6.67             | 0.75         |
| Acqua Nera_Medio | 44        | Max WS  | 1D+2D_Tr30_1.5h  | 23.28             | 32.80            | 34.95            |                  | 35.33            | 0.008365            | 2.73              | 8.53              | 6.30             | 0.75         |
| Acqua Nera_Medio | 44        | Max WS  | 1D+2D_Tr30_0.5h  | 18.38             | 32.80            | 34.71            |                  | 35.05            | 0.008584            | 2.60              | 7.08              | 5.78             | 0.75         |
| Acqua Nera_Medio | 43        | Max WS  | 1D+2D_Tr200_1.5h | 36.07             | 32.76            | 35.40            |                  | 35.95            | 0.009887            | 3.27              | 11.04             | 6.69             | 0.81         |
| Acqua Nera_Medio | 43        | Max WS  | 1D+2D_Tr200_0.5h | 27.25             | 32.76            | 35.07            |                  | 35.55            | 0.009921            | 3.05              | 8.93              | 6.07             | 0.80         |
| Acqua Nera_Medio | 43        | Max WS  | 1D+2D_Tr30_1.5h  | 23.28             | 32.76            | 34.90            |                  | 35.34            | 0.009883            | 2.93              | 7.94              | 5.75             | 0.80         |
| Acqua Nera_Medio | 43        | Max WS  | 1D+2D_Tr30_0.5h  | 18.38             | 32.76            | 34.66            |                  | 35.06            | 0.010041            | 2.78              | 6.61              | 5.29             | 0.79         |
| Acqua Nera_Medio | 42        | Max WS  | 1D+2D_Tr200_1.5h | 36.04             | 32.64            | 35.29            |                  | 35.82            | 0.009359            | 3.22              | 11.19             | 6.38             | 0.78         |
| Acqua Nera_Medio | 42        | Max WS  | 1D+2D_Tr200_0.5h | 27.25             | 32.64            | 34.96            |                  | 35.41            | 0.009076            | 2.97              | 9.18              | 5.84             | 0.76         |
| Acqua Nera_Medio | 42        | Max WS  | 1D+2D_Tr30_1.5h  | 23.27             | 32.64            | 34.80            |                  | 35.20            | 0.008838            | 2.83              | 8.23              | 5.58             | 0.74         |
| Acqua Nera_Medio | 42        | Max WS  | 1D+2D_Tr30_0.5h  | 18.38             | 32.64            | 34.55            |                  | 34.91            | 0.008742            | 2.65              | 6.93              | 5.19             | 0.73         |
| Acqua Nera_Medio | 41.99     |         |                  | Lat Struct        |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Acqua Nera_Medio | 41        | Max WS  | 1D+2D_Tr200_1.5h | 35.69             | 32.50            | 35.20            |                  | 35.58            | 0.006517            | 2.72              | 13.10             | 8.21             | 0.69         |
| Acqua Nera_Medio | 41        | Max WS  | 1D+2D_Tr200_0.5h | 26.48             | 32.50            | 34.88            |                  | 35.20            | 0.006374            | 2.51              | 10.56             | 7.41             | 0.67         |
| Acqua Nera_Medio | 41        | Max WS  | 1D+2D_Tr30_1.5h  | 22.93             | 32.50            | 34.71            |                  | 35.02            | 0.006610            | 2.45              | 9.35              | 6.99             | 0.68         |
| Acqua Nera_Medio | 41        | Max WS  | 1D+2D_Tr30_0.5h  | 18.38             | 32.50            | 34.46            |                  | 34.75            | 0.007143            | 2.39              | 7.70              | 6.38             | 0.69         |
| Acqua Nera_Medio | 40        | Max WS  | 1D+2D_Tr200_1.5h | 35.55             | 32.45            | 35.15            |                  | 35.46            | 0.005140            | 2.48              | 14.36             | 9.08             | 0.63         |
| Acqua Nera_Medio | 40        | Max WS  | 1D+2D_Tr200_0.5h | 26.41             | 32.45            | 34.82            |                  | 35.09            | 0.005075            | 2.29              | 11.55             | 8.17             | 0.61         |
| Acqua Nera_Medio | 40        | Max WS  | 1D+2D_Tr30_1.5h  | 22.52             | 32.45            | 34.65            |                  | 34.90            | 0.005165            | 2.21              | 10.18             | 7.69             | 0.61         |
| Acqua Nera_Medio | 40        | Max WS  | 1D+2D_Tr30_0.5h  | 18.37             | 32.45            | 34.39            |                  | 34.65            | 0.005950            | 2.22              | 8.29              | 6.98             | 0.65         |
| Acqua Nera_Medio | 39        | Max WS  | 1D+2D_Tr200_1.5h | 35.57             | 32.39            | 35.09            |                  | 35.56            | 0.008177            | 3.02              | 11.76             | 7.04             | 0.75         |
| Acqua Nera_Medio | 39        | Max WS  | 1D+2D_Tr200_0.5h | 26.41             | 32.39            | 34.77            |                  | 35.16            | 0.007835            | 2.76              | 9.57              | 6.43             | 0.72         |
| Acqua Nera_Medio | 39        | Max WS  | 1D+2D_Tr30_1.5h  | 22.51             | 32.39            | 34.60            |                  | 34.95            | 0.007817            | 2.65              | 8.49              | 6.08             | 0.72         |
| Acqua Nera_Medio | 39        | Max WS  | 1D+2D_Tr30_0.5h  | 18.37             | 32.39            | 34.34            |                  | 34.69            | 0.008750            | 2.63              | 6.99              | 5.56             | 0.75         |
| Acqua Nera_Medio | 38        | Max WS  | 1D+2D_Tr200_1.5h | 35.48             | 32.31            | 35.05            |                  | 35.42            | 0.006025            | 2.70              | 13.15             | 7.48             | 0.65         |
| Acqua Nera_Medio | 38        | Max WS  | 1D+2D_Tr200_0.5h | 26.32             | 32.31            | 34.73            |                  | 35.03            | 0.005583            | 2.43              | 10.83             | 6.90             | 0.62         |
| Acqua Nera_Medio | 38        | Max WS  | 1D+2D_Tr30_1.5h  | 22.44             | 32.31            | 34.56            |                  | 34.83            | 0.005492            | 2.32              | 9.67              | 6.56             | 0.61         |
| Acqua Nera_Medio | 38        | Max WS  | 1D+2D_Tr30_0.5h  | 18.12             | 32.31            | 34.29            |                  | 34.55            | 0.005980            | 2.27              | 7.98              | 6.03             | 0.63         |
| Acqua Nera_Medio | 37.99     |         |                  | Lat Struct        |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Acqua Nera_Medio | 37        | Max WS  | 1D+2D_Tr200_1.5h | 35.47             | 32.27            | 35.03            |                  | 35.34            | 0.004940            | 2.48              | 14.30             | 8.26             | 0.60         |
| Acqua Nera_Medio | 37        | Max WS  | 1D+2D_Tr200_0.5h | 26.28             | 32.27            | 34.70            |                  | 34.96            | 0.004646            | 2.24              | 11.73             | 7.65             | 0.58         |
| Acqua Nera_Medio | 37        | Max WS  | 1D+2D_Tr30_1.5h  | 22.29             | 32.27            | 34.53            |                  | 34.76            | 0.004557            | 2.13              | 10.44             | 7.26             | 0.57         |
| Acqua Nera_Medio | 37        | Max WS  | 1D+2D_Tr30_0.5h  | 17.96             | 32.27            | 34.26            |                  | 34.48            | 0.005087            | 2.11              | 8.53              | 6.62             | 0.59         |
| Acqua Nera_Medio | 36        | Max WS  | 1D+2D_Tr200_1.5h | 35.33             | 32.20            | 34.98            |                  | 35.30            | 0.005377            | 2.51              | 14.07             | 8.83             | 0.64         |
| Acqua Nera_Medio | 36        | Max WS  | 1D+2D_Tr200_0.5h | 26.23             | 32.20            | 34.65            |                  | 34.93            | 0.005292            | 2.31              | 11.34             | 8.03             | 0.62         |
| Acqua Nera_Medio | 36        | Max WS  | 1D+2D_Tr30_1.5h  | 22.21             | 32.20            | 34.48            |                  | 34.73            | 0.005321            | 2.22              | 9.99              | 7.55             | 0.62         |
| Acqua Nera_Medio | 36        | Max WS  | 1D+2D_Tr30_0.5h  | 17.91             | 32.20            | 34.19            |                  | 34.45            | 0.006356            | 2.25              | 7.95              | 6.76             | 0.66         |
| Acqua Nera_Medio | 35        | Max WS  | 1D+2D_Tr200_1.5h | 25.97             | 32.10            | 34.97            |                  | 35.12            | 0.002318            | 1.74              | 14.92             | 8.12             | 0.41         |
| Acqua Nera_Medio | 35        | Max WS  | 1D+2D_Tr200_0.5h | 26.17             | 32.10            | 34.63            |                  | 34.86            | 0.004034            | 2.14              | 12.25             | 7.63             | 0.54         |
| Acqua Nera_Medio | 35        | Max WS  | 1D+2D_Tr30_1.5h  | 22.14             | 32.10            | 34.46            |                  | 34.66            | 0.003880            | 2.02              | 10.97             | 7.26             | 0.52         |
| Acqua Nera_Medio | 35        | Max WS  | 1D+2D_Tr30_0.5h  | 17.86             | 32.10            | 34.17            |                  | 34.37            | 0.004355            | 2.00              | 8.95              | 6.62             | 0.55         |
| Acqua Nera_Medio | 34.5      |         |                  | Lat Struct        |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Acqua Nera_Medio | 34        | Max WS  | 1D+2D_Tr200_1.5h | 34.46             | 32.01            | 34.88            |                  | 35.19            | 0.005069            | 2.46              | 13.99             | 8.31             | 0.61         |
| Acqua Nera_Medio | 34        | Max WS  | 1D+2D_Tr200_0.5h | 26.61             | 32.01            | 34.55            |                  | 34.83            | 0.005308            | 2.35              | 11.33             | 7.60             | 0.61         |
| Acqua Nera_Medio | 34        | Max WS  | 1D+2D_Tr30_1.5h  | 22.87             | 32.01            | 34.37            |                  | 34.64            | 0.005418            | 2.28              | 10.03             | 7.17             | 0.62         |
| Acqua Nera_Medio | 34        | Max WS  | 1D+2D_Tr30_0.5h  | 18.23             | 32.01            | 34.07            |                  | 34.34            | 0.006302            | 2.28              | 7.99              | 6.43             | 0.65         |
| Acqua Nera_Medio | 33        | Max WS  | 1D+2D_Tr200_1.5h | 29.67             | 31.95            | 34.86            |                  | 35.05            | 0.002857            | 1.93              | 15.35             | 8.58             | 0.46         |
| Acqua Nera_Medio | 33        | Max WS  | 1D+2D_Tr200_0.5h | 26.50             | 31.95            | 34.51            |                  | 34.75            | 0.004053            | 2.13              | 12.45             | 8.03             | 0.55         |
| Acqua Nera_Medio | 33        | Max WS  | 1D+2D_Tr30_1.5h  | 22.77             | 31.95            | 34.34            |                  | 34.55            | 0.004095            | 2.06              | 11.07             | 7.59             | 0.54         |
| Acqua Nera_Medio | 33        | Max WS  | 1D+2D_Tr30_0.5h  | 18.17             | 31.95            | 34.03            |                  | 34.24            | 0.004753            | 2.06              | 8.84              | 6.83             | 0.58         |
| Acqua Nera_Medio | 32.99     |         |                  | Lat Struct        |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Acqua Nera_Medio | 32        | Max WS  | 1D+2D_Tr200_1.5h | 29.28             | 31.86            | 34.82            |                  | 35.06            | 0.003683            | 2.15              | 13.59             | 7.07             | 0.50         |
| Acqua Nera_Medio | 32        | Max WS  | 1D+2D_Tr200_0.5h | 26.48             | 31.86            | 34.46            |                  | 34.75            | 0.005328            | 2.39              | 11.08             | 6.92             | 0.60         |
| Acqua Nera_Medio | 32        | Max WS  | 1D+2D_Tr30_1.5h  | 22.70             | 31.86            | 34.29            |                  | 34.56            | 0.005317            | 2.29              | 9.89              | 6.62             | 0.60         |
| Acqua Nera_Medio | 32        | Max WS  | 1D+2D_Tr30_0.5h  | 18.15             | 31.86            | 33.97            |                  | 34.24            | 0.006123            | 2.29              | 7.93              | 5.97             | 0.63         |
| Acqua Nera_Medio | 31        | Max WS  | 1D+2D_Tr200_1.5h | 28.78             | 31.80            | 34.79            |                  | 35.01            | 0.003425            | 2.10              | 13.68             | 6.65             | 0.47         |
| Acqua Nera_Medio | 31        | Max WS  | 1D+2D_Tr200_0.5h | 26.39             | 31.80            | 34.41            |                  | 34.69            | 0.005097            | 2.37              | 11.16             | 6.65             | 0.58         |

HEC-RAS Profile: Max WS (Continued)

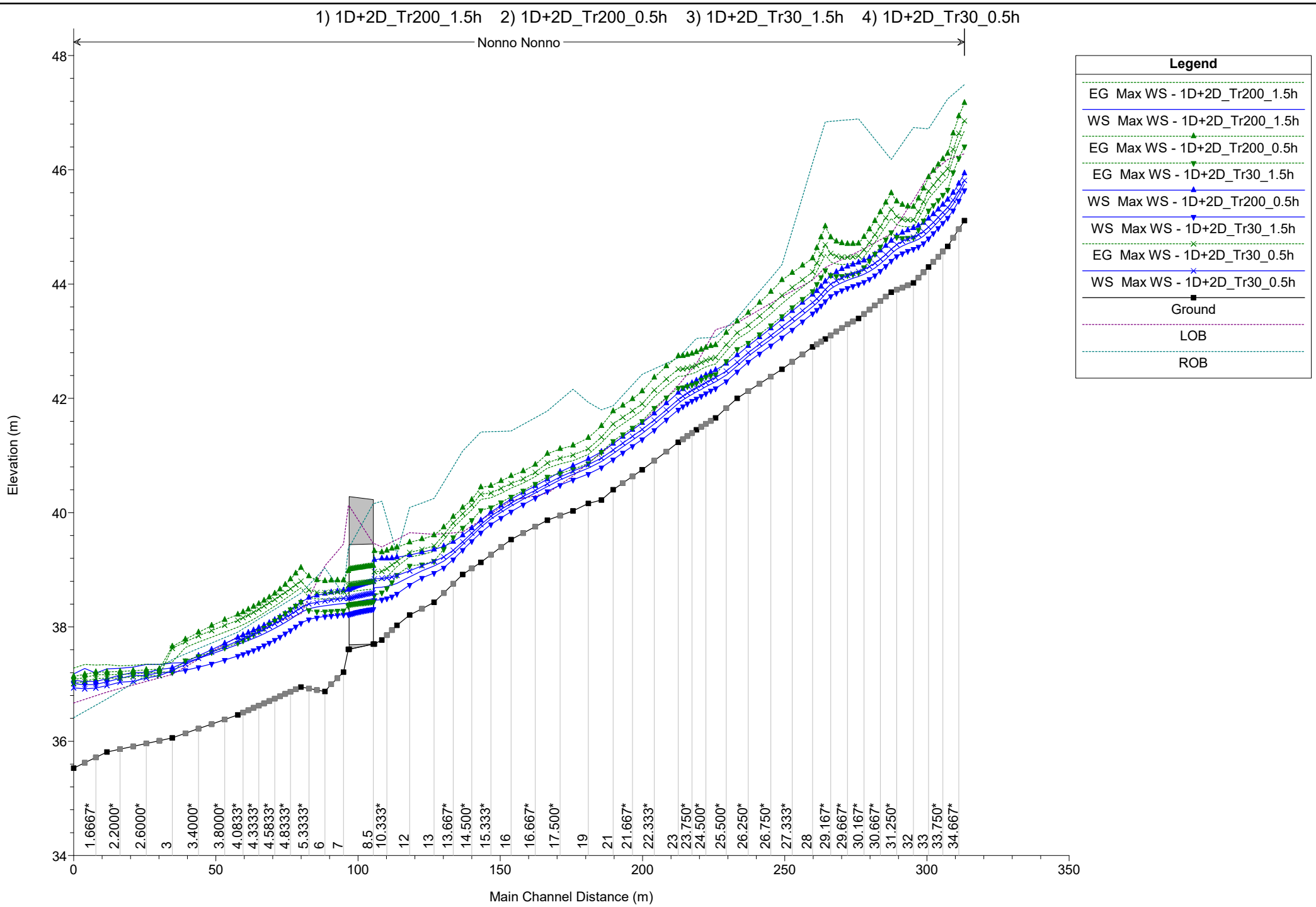
| Reach            | River Sta | Profile | Plan             | Q Total<br>(m3/s) | Min Ch El<br>(m) | W.S. Elev<br>(m) | Crit W.S.<br>(m) | E.G. Elev<br>(m) | E.G. Slope<br>(m/m) | Vel Chnl<br>(m/s) | Flow Area<br>(m2) | Top Width<br>(m) | Froude # Chl |
|------------------|-----------|---------|------------------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| Acqua Nera_Medio | 31        | Max WS  | 1D+2D_Tr30_1.5h  | 22.19             | 31.80            | 34.24            |                  | 34.49            | 0.004818            | 2.22              | 10.02             | 6.40             | 0.57         |
| Acqua Nera_Medio | 31        | Max WS  | 1D+2D_Tr30_0.5h  | 18.10             | 31.80            | 33.92            |                  | 34.17            | 0.005712            | 2.24              | 8.06              | 5.80             | 0.61         |
| Acqua Nera_Medio | 30        | Max WS  | 1D+2D_Tr200_1.5h | 27.43             | 31.64            | 34.75            |                  | 34.98            | 0.003737            | 2.14              | 12.79             | 5.88             | 0.46         |
| Acqua Nera_Medio | 30        | Max WS  | 1D+2D_Tr200_0.5h | 25.24             | 31.64            | 34.34            |                  | 34.64            | 0.005637            | 2.44              | 10.36             | 5.85             | 0.58         |
| Acqua Nera_Medio | 30        | Max WS  | 1D+2D_Tr30_1.5h  | 22.08             | 31.64            | 34.16            |                  | 34.44            | 0.005681            | 2.36              | 9.34              | 5.67             | 0.59         |
| Acqua Nera_Medio | 30        | Max WS  | 1D+2D_Tr30_0.5h  | 18.01             | 31.64            | 33.83            |                  | 34.12            | 0.006678            | 2.39              | 7.54              | 5.18             | 0.63         |
| Acqua Nera_Medio | 29        | Max WS  | 1D+2D_Tr200_1.5h | 27.13             | 31.63            | 34.78            |                  | 34.96            | 0.002794            | 1.89              | 14.34             | 6.96             | 0.42         |
| Acqua Nera_Medio | 29        | Max WS  | 1D+2D_Tr200_0.5h | 23.21             | 31.63            | 34.35            |                  | 34.56            | 0.003720            | 2.03              | 11.44             | 6.42             | 0.49         |
| Acqua Nera_Medio | 29        | Max WS  | 1D+2D_Tr30_1.5h  | 20.96             | 31.63            | 34.15            |                  | 34.36            | 0.004150            | 2.06              | 10.17             | 6.18             | 0.51         |
| Acqua Nera_Medio | 29        | Max WS  | 1D+2D_Tr30_0.5h  | 17.86             | 31.63            | 33.78            |                  | 34.04            | 0.005719            | 2.23              | 8.02              | 5.73             | 0.60         |
| Acqua Nera_Medio | 28        | Max WS  | 1D+2D_Tr200_1.5h | 29.87             | 31.55            | 34.88            |                  | 35.15            | 0.004135            | 2.28              | 13.09             | 4.98             | 0.45         |
| Acqua Nera_Medio | 28        | Max WS  | 1D+2D_Tr200_0.5h | 22.63             | 31.55            | 34.36            |                  | 34.60            | 0.004223            | 2.15              | 10.52             | 4.98             | 0.47         |
| Acqua Nera_Medio | 28        | Max WS  | 1D+2D_Tr30_1.5h  | 19.54             | 31.55            | 34.13            |                  | 34.35            | 0.004325            | 2.09              | 9.35              | 4.98             | 0.49         |
| Acqua Nera_Medio | 28        | Max WS  | 1D+2D_Tr30_0.5h  | 17.83             | 31.55            | 33.73            |                  | 34.03            | 0.006984            | 2.43              | 7.34              | 4.96             | 0.64         |
| Acqua Nera_Medio | 27        | Max WS  | 1D+2D_Tr200_1.5h | 53.49             | 31.49            | 34.75            |                  | 35.26            | 0.006561            | 3.14              | 17.02             | 6.82             | 0.64         |
| Acqua Nera_Medio | 27        | Max WS  | 1D+2D_Tr200_0.5h | 26.03             | 31.49            | 34.28            |                  | 34.46            | 0.002788            | 1.89              | 13.76             | 6.82             | 0.43         |
| Acqua Nera_Medio | 27        | Max WS  | 1D+2D_Tr30_1.5h  | 20.88             | 31.49            | 34.10            |                  | 34.24            | 0.002305            | 1.66              | 12.58             | 6.82             | 0.39         |
| Acqua Nera_Medio | 27        | Max WS  | 1D+2D_Tr30_0.5h  | 17.68             | 31.49            | 33.73            |                  | 33.89            | 0.003051            | 1.76              | 10.07             | 6.57             | 0.45         |
| Acqua Nera_Valle | 26        | Max WS  | 1D+2D_Tr200_1.5h | 82.94             | 31.50            | 34.75            | 34.77            | 35.92            | 0.015608            | 4.78              | 17.36             | 7.63             | 1.01         |
| Acqua Nera_Valle | 26        | Max WS  | 1D+2D_Tr200_0.5h | 49.92             | 31.50            | 34.28            |                  | 34.93            | 0.009968            | 3.59              | 13.91             | 6.90             | 0.81         |
| Acqua Nera_Valle | 26        | Max WS  | 1D+2D_Tr30_1.5h  | 44.10             | 31.50            | 34.10            |                  | 34.71            | 0.009854            | 3.46              | 12.73             | 6.73             | 0.80         |
| Acqua Nera_Valle | 26        | Max WS  | 1D+2D_Tr30_0.5h  | 32.24             | 31.50            | 33.73            |                  | 34.23            | 0.009312            | 3.13              | 10.31             | 6.35             | 0.78         |
| Acqua Nera_Valle | 25.99     |         |                  | Lat Struct        |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Acqua Nera_Valle | 25.98     |         |                  | Lat Struct        |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Acqua Nera_Valle | 25        | Max WS  | 1D+2D_Tr200_1.5h | 70.05             | 31.25            | 34.61            |                  | 35.25            | 0.007797            | 3.57              | 19.64             | 8.58             | 0.75         |
| Acqua Nera_Valle | 25        | Max WS  | 1D+2D_Tr200_0.5h | 50.06             | 31.25            | 34.15            |                  | 34.67            | 0.007436            | 3.18              | 15.76             | 8.53             | 0.75         |
| Acqua Nera_Valle | 25        | Max WS  | 1D+2D_Tr30_1.5h  | 43.84             | 31.25            | 33.99            |                  | 34.46            | 0.007378            | 3.05              | 14.35             | 8.27             | 0.74         |
| Acqua Nera_Valle | 25        | Max WS  | 1D+2D_Tr30_0.5h  | 32.21             | 31.25            | 33.62            |                  | 34.02            | 0.007422            | 2.82              | 11.43             | 7.60             | 0.73         |
| Acqua Nera_Valle | 24        | Max WS  | 1D+2D_Tr200_1.5h | 66.44             | 31.12            | 34.37            |                  | 35.10            | 0.009081            | 3.76              | 17.65             | 7.03             | 0.76         |
| Acqua Nera_Valle | 24        | Max WS  | 1D+2D_Tr200_0.5h | 49.52             | 31.12            | 33.93            |                  | 34.52            | 0.008674            | 3.42              | 14.99             | 7.03             | 0.76         |
| Acqua Nera_Valle | 24        | Max WS  | 1D+2D_Tr30_1.5h  | 43.73             | 31.12            | 33.76            |                  | 34.31            | 0.008548            | 3.28              | 13.32             | 6.98             | 0.76         |
| Acqua Nera_Valle | 24        | Max WS  | 1D+2D_Tr30_0.5h  | 32.20             | 31.12            | 33.39            |                  | 33.85            | 0.008249            | 2.98              | 10.82             | 6.68             | 0.75         |
| Acqua Nera_Valle | 23        | Max WS  | 1D+2D_Tr200_1.5h | 66.22             | 30.88            | 34.23            |                  | 35.09            | 0.011888            | 4.11              | 16.11             | 7.11             | 0.87         |
| Acqua Nera_Valle | 23        | Max WS  | 1D+2D_Tr200_0.5h | 49.20             | 30.88            | 33.78            |                  | 34.52            | 0.012151            | 3.81              | 12.93             | 7.11             | 0.90         |
| Acqua Nera_Valle | 23        | Max WS  | 1D+2D_Tr30_1.5h  | 43.42             | 30.88            | 33.62            |                  | 34.31            | 0.012349            | 3.70              | 11.75             | 7.02             | 0.91         |
| Acqua Nera_Valle | 23        | Max WS  | 1D+2D_Tr30_0.5h  | 32.20             | 30.88            | 33.25            |                  | 33.87            | 0.012900            | 3.47              | 9.27              | 6.49             | 0.93         |
| Acqua Nera_Valle | 22        | Max WS  | 1D+2D_Tr200_1.5h | 68.07             | 30.77            | 34.10            |                  | 34.71            | 0.007274            | 3.45              | 19.73             | 8.58             | 0.73         |
| Acqua Nera_Valle | 22        | Max WS  | 1D+2D_Tr200_0.5h | 49.83             | 30.77            | 33.65            |                  | 34.15            | 0.007265            | 3.14              | 15.85             | 8.58             | 0.74         |
| Acqua Nera_Valle | 22        | Max WS  | 1D+2D_Tr30_1.5h  | 43.81             | 30.77            | 33.48            |                  | 33.95            | 0.007329            | 3.04              | 14.41             | 8.43             | 0.74         |
| Acqua Nera_Valle | 22        | Max WS  | 1D+2D_Tr30_0.5h  | 32.20             | 30.77            | 33.11            |                  | 33.52            | 0.007644            | 2.83              | 11.38             | 7.84             | 0.75         |
| Acqua Nera_Valle | 21        | Max WS  | 1D+2D_Tr200_1.5h | 69.21             | 30.32            | 33.97            |                  | 34.63            | 0.008132            | 3.61              | 19.20             | 8.00             | 0.74         |
| Acqua Nera_Valle | 21        | Max WS  | 1D+2D_Tr200_0.5h | 49.80             | 30.32            | 33.53            |                  | 34.04            | 0.007421            | 3.18              | 15.66             | 7.90             | 0.72         |
| Acqua Nera_Valle | 21        | Max WS  | 1D+2D_Tr30_1.5h  | 43.74             | 30.32            | 33.36            |                  | 33.83            | 0.007229            | 3.05              | 14.36             | 7.69             | 0.71         |
| Acqua Nera_Valle | 21        | Max WS  | 1D+2D_Tr30_0.5h  | 32.20             | 30.32            | 32.99            |                  | 33.38            | 0.007006            | 2.78              | 11.59             | 7.22             | 0.70         |
| Acqua Nera_Valle | 20        | Max WS  | 1D+2D_Tr200_1.5h | 69.04             | 30.38            | 33.85            |                  | 34.55            | 0.008790            | 3.70              | 18.65             | 8.30             | 0.79         |
| Acqua Nera_Valle | 20        | Max WS  | 1D+2D_Tr200_0.5h | 49.90             | 30.38            | 33.41            |                  | 33.97            | 0.008446            | 3.32              | 15.04             | 8.23             | 0.78         |
| Acqua Nera_Valle | 20        | Max WS  | 1D+2D_Tr30_1.5h  | 43.78             | 30.38            | 33.25            |                  | 33.77            | 0.008393            | 3.20              | 13.70             | 7.95             | 0.78         |
| Acqua Nera_Valle | 20        | Max WS  | 1D+2D_Tr30_0.5h  | 32.19             | 30.38            | 32.88            |                  | 33.32            | 0.008619            | 2.96              | 10.86             | 7.34             | 0.78         |
| Acqua Nera_Valle | 19        | Max WS  | 1D+2D_Tr200_1.5h | 68.82             | 30.01            | 33.63            |                  | 34.41            | 0.009962            | 3.90              | 17.63             | 6.70             | 0.77         |
| Acqua Nera_Valle | 19        | Max WS  | 1D+2D_Tr200_0.5h | 49.70             | 30.01            | 33.22            |                  | 33.79            | 0.008267            | 3.34              | 14.87             | 6.70             | 0.72         |
| Acqua Nera_Valle | 19        | Max WS  | 1D+2D_Tr30_1.5h  | 43.64             | 30.01            | 33.06            |                  | 33.57            | 0.007827            | 3.16              | 13.80             | 6.70             | 0.70         |
| Acqua Nera_Valle | 19        | Max WS  | 1D+2D_Tr30_0.5h  | 32.16             | 30.01            | 32.70            |                  | 33.11            | 0.007306            | 2.83              | 11.36             | 6.62             | 0.69         |
| Acqua Nera_Valle | 18        | Max WS  | 1D+2D_Tr200_1.5h | 66.83             | 30.34            | 33.60            |                  | 34.17            | 0.006828            | 3.34              | 20.00             | 8.33             | 0.69         |
| Acqua Nera_Valle | 18        | Max WS  | 1D+2D_Tr200_0.5h | 49.53             | 30.34            | 33.19            |                  | 33.64            | 0.006344            | 2.98              | 16.61             | 8.33             | 0.67         |
| Acqua Nera_Valle | 18        | Max WS  | 1D+2D_Tr30_1.5h  | 43.51             | 30.34            | 33.03            |                  | 33.45            | 0.006204            | 2.85              | 15.29             | 8.33             | 0.67         |
| Acqua Nera_Valle | 18        | Max WS  | 1D+2D_Tr30_0.5h  | 32.09             | 30.34            | 32.66            |                  | 33.02            | 0.006390            | 2.63              | 12.22             | 8.16             | 0.69         |
| Acqua Nera_Valle | 17        | Max WS  | 1D+2D_Tr200_1.5h | 66.61             | 29.89            | 33.42            |                  | 34.11            | 0.008608            | 3.66              | 18.19             | 7.63             | 0.76         |
| Acqua Nera_Valle | 17        | Max WS  | 1D+2D_Tr200_0.5h | 49.38             | 29.89            | 33.01            |                  | 33.56            | 0.008016            | 3.28              | 15.06             | 7.63             | 0.75         |
| Acqua Nera_Valle | 17        | Max WS  | 1D+2D_Tr30_1.5h  | 43.63             | 29.89            | 32.86            |                  | 33.36            | 0.007881            | 3.14              | 13.89             | 7.63             | 0.74         |
| Acqua Nera_Valle | 17        | Max WS  | 1D+2D_Tr30_0.5h  | 32.18             | 29.89            | 32.49            |                  | 32.91            | 0.007731            | 2.88              | 11.16             | 7.01             | 0.73         |
| Acqua Nera_Valle | 16        | Max WS  | 1D+2D_Tr200_1.5h | 66.44             | 29.51            | 33.21            |                  | 33.78            | 0.006620            | 3.33              | 19.92             | 7.59             | 0.66         |
| Acqua Nera_Valle | 16        | Max WS  | 1D+2D_Tr200_0.5h | 49.29             | 29.51            | 32.81            |                  | 33.25            | 0.005772            | 2.92              | 16.86             | 7.59             | 0.63         |
| Acqua Nera_Valle | 16        | Max WS  | 1D+2D_Tr30_1.5h  | 43.41             | 29.51            | 32.66            |                  | 33.05            | 0.005470            | 2.77              | 15.69             | 7.59             | 0.61         |
| Acqua Nera_Valle | 16        | Max WS  | 1D+2D_Tr30_0.5h  | 32.17             | 29.51            | 32.29            |                  | 32.61            | 0.005195            | 2.49              | 12.92             | 7.52             | 0.61         |
| Acqua Nera_Valle | 15        | Max WS  | 1D+2D_Tr200_1.5h | 67.31             | 29.46            | 33.06            |                  | 33.67            | 0.007575            | 3.45              | 19.49             | 7.89             | 0.70         |
| Acqua Nera_Valle | 15        | Max WS  | 1D+2D_Tr200_0.5h | 49.36             | 29.46            | 32.70            |                  | 33.15            | 0.006324            | 2.96              | 16.66             | 7.89             | 0.65         |
| Acqua Nera_Valle | 15        | Max WS  | 1D+2D_Tr30_1.5h  | 43.43             | 29.46            | 32.56            |                  | 32.96            | 0.005963            | 2.79              | 15.54             | 7.89             | 0.64         |
| Acqua Nera_Valle | 15        | Max WS  | 1D+2D_Tr30_0.5h  | 32.09             | 29.46            | 32.20            |                  | 32.52            | 0.005829            | 2.53              | 12.68             | 7.84             | 0.64         |
| Acqua Nera_Valle | 14        | Max WS  | 1D+2D_Tr200_1.5h | 65.16             | 29.06            | 32.87            |                  | 33.41            | 0.006481            | 3.26              | 19.96             | 7.00             | 0.62         |
| Acqua Nera_Valle | 14        | Max WS  | 1D+2D_Tr200_0.5h | 48.89             | 29.06            | 32.55            |                  | 32.94            | 0.005022            | 2.76              | 17.74             | 7.00             | 0.55         |
| Acqua Nera_Valle | 14        | Max WS  | 1D+2D_Tr30_1.5h  | 43.33             | 29.06            | 32.42            |                  | 32.76            | 0.004545            | 2.57              | 16.85             | 7.00             | 0.53         |
| Acqua Nera_Valle | 14        | Max WS  | 1D+2D_Tr30_0.5h  | 32.05             | 29.06            | 32.08            |                  | 32.33            | 0.003809            | 2.22              | 14.44             | 7.00             | 0.49         |
| Acqua Nera_Valle | 13        | Max WS  | 1D+2D_Tr200_1.5h | 57.04             | 29.01            | 32.72            |                  | 33.32            | 0.007915            | 3.42              | 16.69             | 5.99             | 0.65         |
| Acqua Nera_Valle | 13        | Max WS  | 1D+2D_Tr200_0.5h | 46.94             | 29.01            | 32.39            |                  | 32.91            | 0.007527            | 3.20              | 14.69             | 5.99             | 0.65         |
| Acqua Nera_Valle | 13        | Max WS  | 1D+2D_Tr30_1.5h  | 42.79             | 29.01            | 32.26            |                  | 32.74            | 0.007240            | 3.08              | 13.91             | 5.98             | 0.64         |
| Acqua Nera_Valle | 13        | Max WS  | 1D+2D_Tr30_0.5h  | 32.13             | 29.01            | 31.93            |                  | 32.30            | 0.006048            | 2.68              | 12.00             | 5.78             | 0.59         |
| Acqua Nera_Valle | 12        | Max WS  | 1D+2D_Tr200_1.5h | 63.14             | 28.89            | 32.39            |                  | 33.15            | 0.010357            | 3.86              | 16.36             | 7.24             | 0.82         |
| Acqua Nera_Valle | 12        | Max WS  | 1D+2D_Tr200_0.5h | 48.60             | 28.89            | 32.10            |                  | 32.69            | 0.008882            | 3.41              | 14.26             | 7.00             | 0.76         |

HEC-RAS Profile: Max WS (Continued)

| Reach            | River Sta | Profile | Plan             | Q Total<br>(m3/s) | Min Ch El<br>(m) | W.S. Elev<br>(m) | Crit W.S.<br>(m) | E.G. Elev<br>(m) | E.G. Slope<br>(m/m) | Vel Chnl<br>(m/s) | Flow Area<br>(m2) | Top Width<br>(m) | Froude # Chl |
|------------------|-----------|---------|------------------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| Acqua Nera_Valle | 12        | Max WS  | 1D+2D_Tr30_1.5h  | 43.37             | 28.89            | 31.99            |                  | 32.51            | 0.008220            | 3.21              | 13.50             | 6.91             | 0.73         |
| Acqua Nera_Valle | 12        | Max WS  | 1D+2D_Tr30_0.5h  | 32.14             | 28.89            | 31.70            |                  | 32.10            | 0.006842            | 2.78              | 11.57             | 6.58             | 0.67         |
| Acqua Nera_Valle | 11        | Max WS  | 1D+2D_Tr200_1.5h | 65.64             | 28.40            | 32.05            |                  | 32.55            | 0.006167            | 3.14              | 20.90             | 9.75             | 0.68         |
| Acqua Nera_Valle | 11        | Max WS  | 1D+2D_Tr200_0.5h | 48.83             | 28.40            | 31.86            |                  | 32.19            | 0.004433            | 2.57              | 19.03             | 9.58             | 0.58         |
| Acqua Nera_Valle | 11        | Max WS  | 1D+2D_Tr30_1.5h  | 43.41             | 28.40            | 31.78            |                  | 32.07            | 0.003900            | 2.37              | 18.31             | 9.48             | 0.54         |
| Acqua Nera_Valle | 11        | Max WS  | 1D+2D_Tr30_0.5h  | 32.09             | 28.40            | 31.55            |                  | 31.75            | 0.003007            | 1.98              | 16.17             | 9.18             | 0.48         |
| Acqua Nera_Valle | 10        | Max WS  | 1D+2D_Tr200_1.5h | 61.75             | 27.90            | 31.99            |                  | 32.23            | 0.002279            | 2.17              | 28.48             | 10.52            | 0.42         |
| Acqua Nera_Valle | 10        | Max WS  | 1D+2D_Tr200_0.5h | 47.28             | 27.90            | 31.83            |                  | 31.99            | 0.001591            | 1.77              | 26.78             | 10.52            | 0.35         |
| Acqua Nera_Valle | 10        | Max WS  | 1D+2D_Tr30_1.5h  | 42.52             | 27.90            | 31.76            |                  | 31.90            | 0.001392            | 1.63              | 26.05             | 10.52            | 0.33         |
| Acqua Nera_Valle | 10        | Max WS  | 1D+2D_Tr30_0.5h  | 32.05             | 27.90            | 31.54            |                  | 31.63            | 0.001032            | 1.35              | 23.73             | 10.48            | 0.29         |
| Acqua Nera_Valle | 9         | Max WS  | 1D+2D_Tr200_1.5h | 55.08             | 27.85            | 32.00            |                  | 32.21            | 0.002120            | 2.04              | 26.95             | 9.79             | 0.39         |
| Acqua Nera_Valle | 9         | Max WS  | 1D+2D_Tr200_0.5h | 44.22             | 27.85            | 31.82            |                  | 31.98            | 0.001648            | 1.75              | 25.21             | 9.79             | 0.35         |
| Acqua Nera_Valle | 9         | Max WS  | 1D+2D_Tr30_1.5h  | 40.57             | 27.85            | 31.75            |                  | 31.89            | 0.001501            | 1.65              | 24.52             | 9.79             | 0.33         |
| Acqua Nera_Valle | 9         | Max WS  | 1D+2D_Tr30_0.5h  | 31.83             | 27.85            | 31.52            |                  | 31.62            | 0.001216            | 1.43              | 22.27             | 9.79             | 0.30         |
| Acqua Nera_Valle | 8         | Max WS  | 1D+2D_Tr200_1.5h | 47.78             | 27.69            | 32.07            |                  | 32.19            | 0.001064            | 1.54              | 31.07             | 10.36            | 0.28         |
| Acqua Nera_Valle | 8         | Max WS  | 1D+2D_Tr200_0.5h | 41.58             | 27.69            | 31.85            |                  | 31.96            | 0.000989            | 1.44              | 28.88             | 10.36            | 0.28         |
| Acqua Nera_Valle | 8         | Max WS  | 1D+2D_Tr30_1.5h  | 39.05             | 27.69            | 31.77            |                  | 31.87            | 0.000950            | 1.39              | 28.02             | 10.36            | 0.27         |
| Acqua Nera_Valle | 8         | Max WS  | 1D+2D_Tr30_0.5h  | 32.00             | 27.69            | 31.53            |                  | 31.61            | 0.000832            | 1.25              | 25.51             | 10.36            | 0.26         |
| Acqua Nera_Valle | 7         | Max WS  | 1D+2D_Tr200_1.5h | 43.28             | 27.74            | 32.12            |                  | 32.17            | 0.000402            | 1.02              | 42.62             | 12.83            | 0.18         |
| Acqua Nera_Valle | 7         | Max WS  | 1D+2D_Tr200_0.5h | 38.38             | 27.74            | 31.90            |                  | 31.95            | 0.000384            | 0.96              | 39.79             | 12.83            | 0.17         |
| Acqua Nera_Valle | 7         | Max WS  | 1D+2D_Tr30_1.5h  | 36.35             | 27.74            | 31.81            |                  | 31.86            | 0.000374            | 0.94              | 38.68             | 12.83            | 0.17         |
| Acqua Nera_Valle | 7         | Max WS  | 1D+2D_Tr30_0.5h  | 30.78             | 27.74            | 31.56            |                  | 31.60            | 0.000346            | 0.87              | 35.43             | 12.83            | 0.17         |
| Acqua Nera_Valle | 6.5       |         | Culvert          |                   |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Acqua Nera_Valle | 6         | Max WS  | 1D+2D_Tr200_1.5h | 43.28             | 27.45            | 30.71            |                  | 31.34            | 0.003517            | 3.52              | 12.30             | 9.28             | 0.64         |
| Acqua Nera_Valle | 6         | Max WS  | 1D+2D_Tr200_0.5h | 38.38             | 27.45            | 30.54            |                  | 31.09            | 0.003335            | 3.30              | 11.62             | 9.28             | 0.61         |
| Acqua Nera_Valle | 6         | Max WS  | 1D+2D_Tr30_1.5h  | 36.35             | 27.45            | 30.47            |                  | 30.99            | 0.003226            | 3.20              | 11.36             | 9.28             | 0.60         |
| Acqua Nera_Valle | 6         | Max WS  | 1D+2D_Tr30_0.5h  | 30.77             | 27.45            | 30.28            |                  | 30.71            | 0.002905            | 2.90              | 10.61             | 9.28             | 0.57         |
| Acqua Nera_Valle | 5.99      |         | Lat Struct       |                   |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Acqua Nera_Valle | 5.98      |         | Lat Struct       |                   |                  |                  |                  |                  |                     |                   |                   |                  |              |
| Acqua Nera_Valle | 5         | Max WS  | 1D+2D_Tr200_1.5h | 48.08             | 28.59            | 30.72            | 30.80            | 31.45            | 0.016451            | 3.78              | 12.72             | 10.70            | 1.11         |
| Acqua Nera_Valle | 5         | Max WS  | 1D+2D_Tr200_0.5h | 41.27             | 28.59            | 30.55            | 30.67            | 31.27            | 0.018332            | 3.76              | 10.98             | 10.21            | 1.16         |
| Acqua Nera_Valle | 5         | Max WS  | 1D+2D_Tr30_1.5h  | 38.77             | 28.59            | 30.48            | 30.62            | 31.20            | 0.019305            | 3.76              | 10.31             | 10.02            | 1.18         |
| Acqua Nera_Valle | 5         | Max WS  | 1D+2D_Tr30_0.5h  | 31.80             | 28.59            | 30.29            | 30.46            | 31.02            | 0.022903            | 3.76              | 8.45              | 9.45             | 1.27         |
| Acqua Nera_Valle | 4         | Max WS  | 1D+2D_Tr200_1.5h | 50.04             | 27.98            | 30.59            |                  | 31.01            | 0.005918            | 2.85              | 17.59             | 10.21            | 0.69         |
| Acqua Nera_Valle | 4         | Max WS  | 1D+2D_Tr200_0.5h | 42.44             | 27.98            | 30.42            |                  | 30.79            | 0.005614            | 2.67              | 15.87             | 9.76             | 0.67         |
| Acqua Nera_Valle | 4         | Max WS  | 1D+2D_Tr30_1.5h  | 39.63             | 27.98            | 30.35            |                  | 30.70            | 0.005489            | 2.60              | 15.21             | 9.58             | 0.66         |
| Acqua Nera_Valle | 4         | Max WS  | 1D+2D_Tr30_0.5h  | 32.02             | 27.98            | 30.15            |                  | 30.45            | 0.005107            | 2.40              | 13.35             | 9.04             | 0.63         |
| Acqua Nera_Valle | 3         | Max WS  | 1D+2D_Tr200_1.5h | 50.04             | 28.05            | 30.51            |                  | 30.93            | 0.006762            | 2.89              | 17.34             | 11.51            | 0.75         |
| Acqua Nera_Valle | 3         | Max WS  | 1D+2D_Tr200_0.5h | 42.44             | 28.05            | 30.34            |                  | 30.72            | 0.006658            | 2.75              | 15.43             | 10.91            | 0.74         |
| Acqua Nera_Valle | 3         | Max WS  | 1D+2D_Tr30_1.5h  | 39.63             | 28.05            | 30.27            |                  | 30.64            | 0.006615            | 2.70              | 14.70             | 10.67            | 0.73         |
| Acqua Nera_Valle | 3         | Max WS  | 1D+2D_Tr30_0.5h  | 32.02             | 28.05            | 30.07            |                  | 30.40            | 0.006480            | 2.53              | 12.65             | 9.97             | 0.72         |
| Acqua Nera_Valle | 2         | Max WS  | 1D+2D_Tr200_1.5h | 50.04             | 27.79            | 30.38            | 30.32            | 31.03            | 0.011427            | 3.58              | 13.98             | 9.66             | 0.95         |
| Acqua Nera_Valle | 2         | Max WS  | 1D+2D_Tr200_0.5h | 42.44             | 27.79            | 30.21            |                  | 30.81            | 0.011367            | 3.43              | 12.39             | 9.12             | 0.94         |
| Acqua Nera_Valle | 2         | Max WS  | 1D+2D_Tr30_1.5h  | 39.63             | 27.79            | 30.14            |                  | 30.72            | 0.011340            | 3.36              | 11.78             | 8.91             | 0.93         |
| Acqua Nera_Valle | 2         | Max WS  | 1D+2D_Tr30_0.5h  | 32.02             | 27.79            | 29.95            |                  | 30.46            | 0.011255            | 3.18              | 10.08             | 8.29             | 0.92         |
| Acqua Nera_Valle | 1         | Max WS  | 1D+2D_Tr200_1.5h | 50.04             | 27.65            | 30.19            | 30.20            | 30.91            | 0.013004            | 3.76              | 13.30             | 9.38             | 1.01         |
| Acqua Nera_Valle | 1         | Max WS  | 1D+2D_Tr200_0.5h | 42.44             | 27.65            | 30.02            | 30.01            | 30.68            | 0.012998            | 3.61              | 11.77             | 8.85             | 1.00         |
| Acqua Nera_Valle | 1         | Max WS  | 1D+2D_Tr30_1.5h  | 39.63             | 27.65            | 29.95            | 29.94            | 30.59            | 0.013005            | 3.54              | 11.18             | 8.64             | 1.00         |
| Acqua Nera_Valle | 1         | Max WS  | 1D+2D_Tr30_0.5h  | 32.02             | 27.65            | 29.75            | 29.74            | 30.33            | 0.013009            | 3.36              | 9.54              | 8.02             | 0.98         |

1) 1D+2D\_Tr200\_1.5h 2) 1D+2D\_Tr200\_0.5h 3) 1D+2D\_Tr30\_1.5h 4) 1D+2D\_Tr30\_0.5h

Nonno Nonno



| Legend                       |                                    |
|------------------------------|------------------------------------|
| EG Max WS - 1D+2D_Tr200_1.5h | (Green dashed line with triangles) |
| WS Max WS - 1D+2D_Tr200_1.5h | (Blue solid line with triangles)   |
| EG Max WS - 1D+2D_Tr200_0.5h | (Green dashed line with triangles) |
| EG Max WS - 1D+2D_Tr30_1.5h  | (Green dashed line with triangles) |
| WS Max WS - 1D+2D_Tr200_0.5h | (Blue solid line with triangles)   |
| WS Max WS - 1D+2D_Tr30_1.5h  | (Blue solid line with triangles)   |
| EG Max WS - 1D+2D_Tr30_0.5h  | (Green dashed line with triangles) |
| WS Max WS - 1D+2D_Tr30_0.5h  | (Blue solid line with triangles)   |
| Ground                       | (Black solid line with squares)    |
| LOB                          | (Purple dashed line)               |
| ROB                          | (Cyan dotted line)                 |

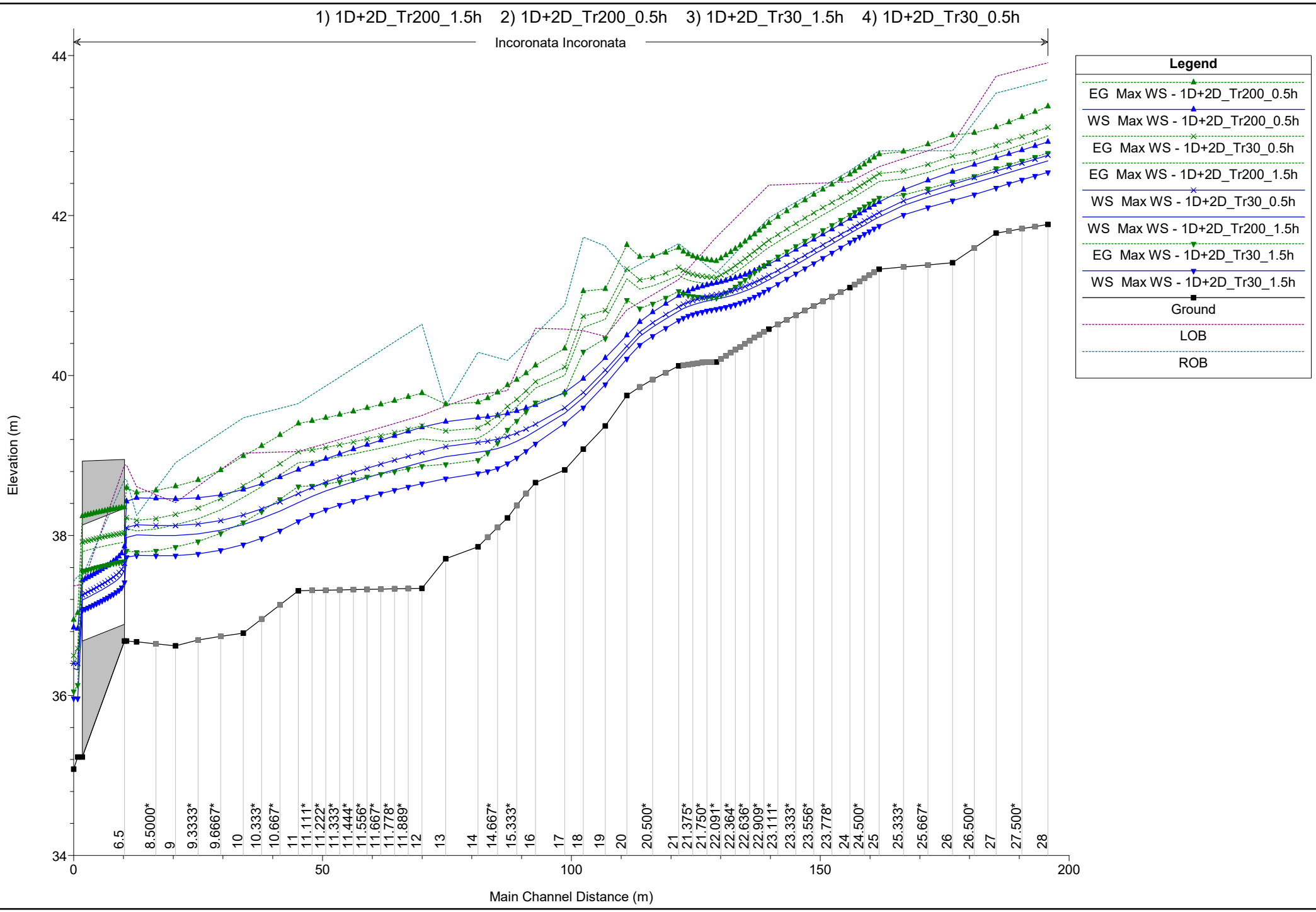
1.6667\* 2.2000\* 2.6000\* 3 3.4000\* 3.8000\* 4.0833\* 4.3333\* 4.5833\* 4.8333\* 5.3333\* 6 7 8.5 10.333\* 12 13 13.667\* 14.500\* 15.333\* 16 16.667\* 17.500\* 19 21 21.667\* 22.333\* 23 23.750\* 24.500\* 25.500\* 26.250\* 26.750\* 27.333\* 28 29.167\* 29.667\* 30.167\* 30.667\* 31.250\* 32 33 33.750\* 34.667\*

Elevation (m)

Main Channel Distance (m)

1) 1D+2D\_Tr200\_1.5h    2) 1D+2D\_Tr200\_0.5h    3) 1D+2D\_Tr30\_1.5h    4) 1D+2D\_Tr30\_0.5h

Incoronata Incoronata



| Legend                       |                  |
|------------------------------|------------------|
| EG Max WS - 1D+2D_Tr200_0.5h | ▲ (Green)        |
| WS Max WS - 1D+2D_Tr200_0.5h | ▲ (Blue)         |
| EG Max WS - 1D+2D_Tr30_0.5h  | ▲ (Green)        |
| EG Max WS - 1D+2D_Tr200_1.5h | ▲ (Green)        |
| WS Max WS - 1D+2D_Tr30_0.5h  | ▲ (Blue)         |
| WS Max WS - 1D+2D_Tr200_1.5h | ▲ (Blue)         |
| EG Max WS - 1D+2D_Tr30_1.5h  | ▲ (Green)        |
| WS Max WS - 1D+2D_Tr30_1.5h  | ▲ (Blue)         |
| Ground                       | ■ (Black)        |
| LOB                          | ⋯ (Dotted Green) |
| ROB                          | ⋯ (Dotted Blue)  |

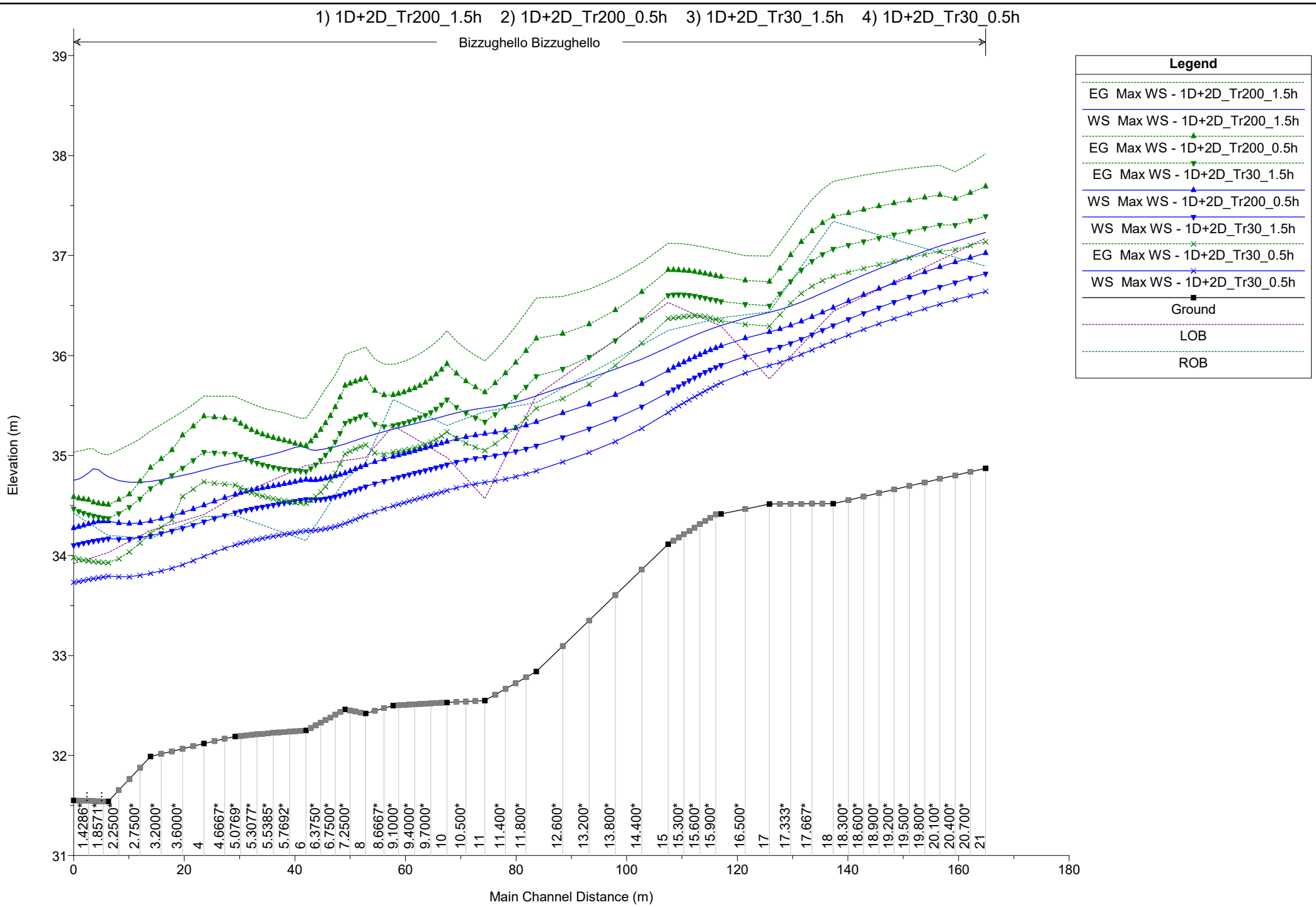
6.5    8.5000\*    9    9.3333\*    9.6667\*    10    10.333\*    10.667\*    11    11.111\*    11.222\*    11.333\*    11.444\*    11.556\*    11.667\*    11.778\*    11.889\*    12    13    14    14.667\*    15.333\*    16    17    18    19    20    20.500\*    21    21.375\*    21.750\*    22.091\*    22.364\*    22.636\*    22.909\*    23.111\*    23.333\*    23.556\*    23.778\*    24    24.500\*    25    25.333\*    25.667\*    26    26.500\*    27    27.500\*    28

Main Channel Distance (m)

Elevation (m)

1) 1D+2D\_Tr200\_1.5h 2) 1D+2D\_Tr200\_0.5h 3) 1D+2D\_Tr30\_1.5h 4) 1D+2D\_Tr30\_0.5h

Bizzughello Bizzughello



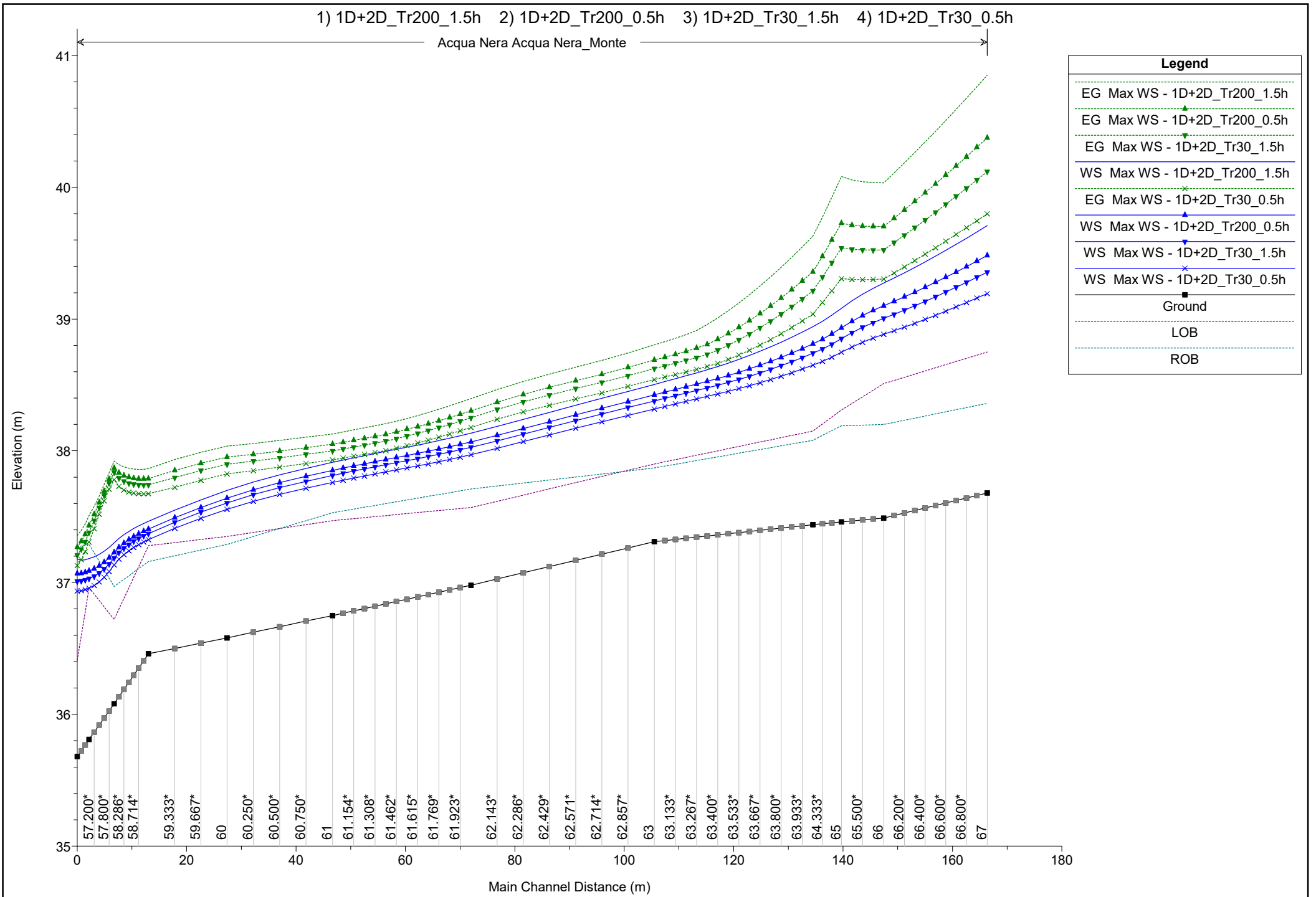
| Legend                       |                                    |
|------------------------------|------------------------------------|
| EG Max WS - 1D+2D_Tr200_1.5h | (Green dotted line with triangles) |
| WS Max WS - 1D+2D_Tr200_1.5h | (Blue solid line with triangles)   |
| EG Max WS - 1D+2D_Tr200_0.5h | (Green dotted line with triangles) |
| EG Max WS - 1D+2D_Tr30_1.5h  | (Green dotted line with triangles) |
| WS Max WS - 1D+2D_Tr200_0.5h | (Blue solid line with triangles)   |
| WS Max WS - 1D+2D_Tr30_1.5h  | (Blue solid line with triangles)   |
| EG Max WS - 1D+2D_Tr30_0.5h  | (Green dotted line with triangles) |
| WS Max WS - 1D+2D_Tr30_0.5h  | (Blue solid line with triangles)   |
| Ground                       | (Black solid line with squares)    |
| LOB                          | (Purple dotted line)               |
| ROB                          | (Cyan dotted line)                 |

1.4286\* 1.8571\* 2.2500\* 2.7500\* 3.2000\* 3.6000\* 4 4.6667\* 5.0769\* 5.3077\* 5.5385\* 5.7692\* 6 6.3750\* 6.7500\* 7.2500\* 8 8.6667\* 9.1000\* 9.4000\* 9.7000\* 10 10.500\* 11 11.400\* 11.800\* 12.600\* 13.200\* 13.800\* 14.400\* 15 15.300\* 15.600\* 15.900\* 16.500\* 17 17.333\* 17.667\* 18 18.300\* 18.600\* 18.900\* 19.200\* 19.500\* 19.800\* 20.100\* 20.400\* 20.700\* 21

Elevation (m)

Main Channel Distance (m)





1) 1D+2D\_Tr200\_1.5h   2) 1D+2D\_Tr200\_0.5h   3) 1D+2D\_Tr30\_1.5h   4) 1D+2D\_Tr30\_0.5h

Acqua Nera Acqua Nera\_Medio

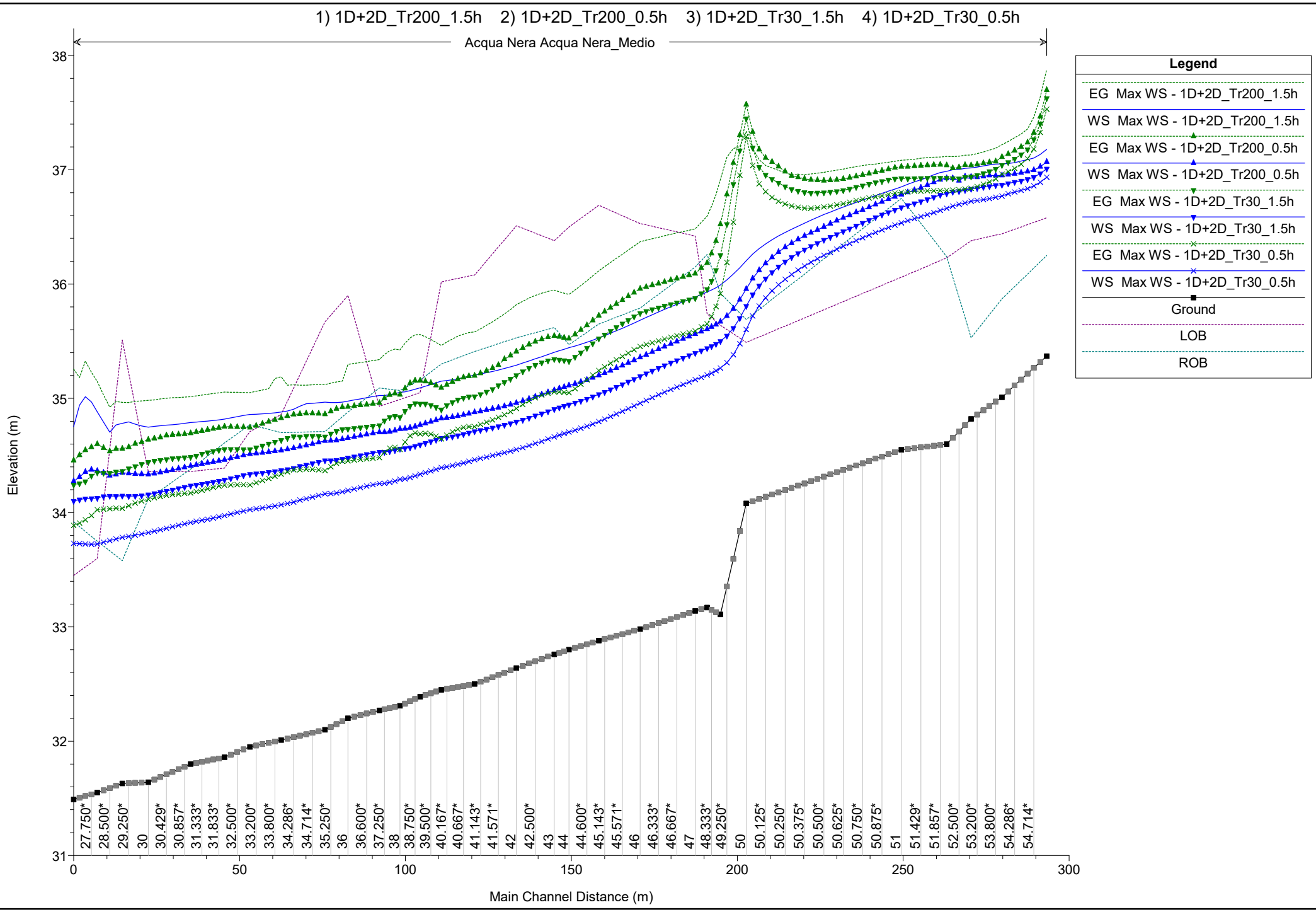
Elevation (m)

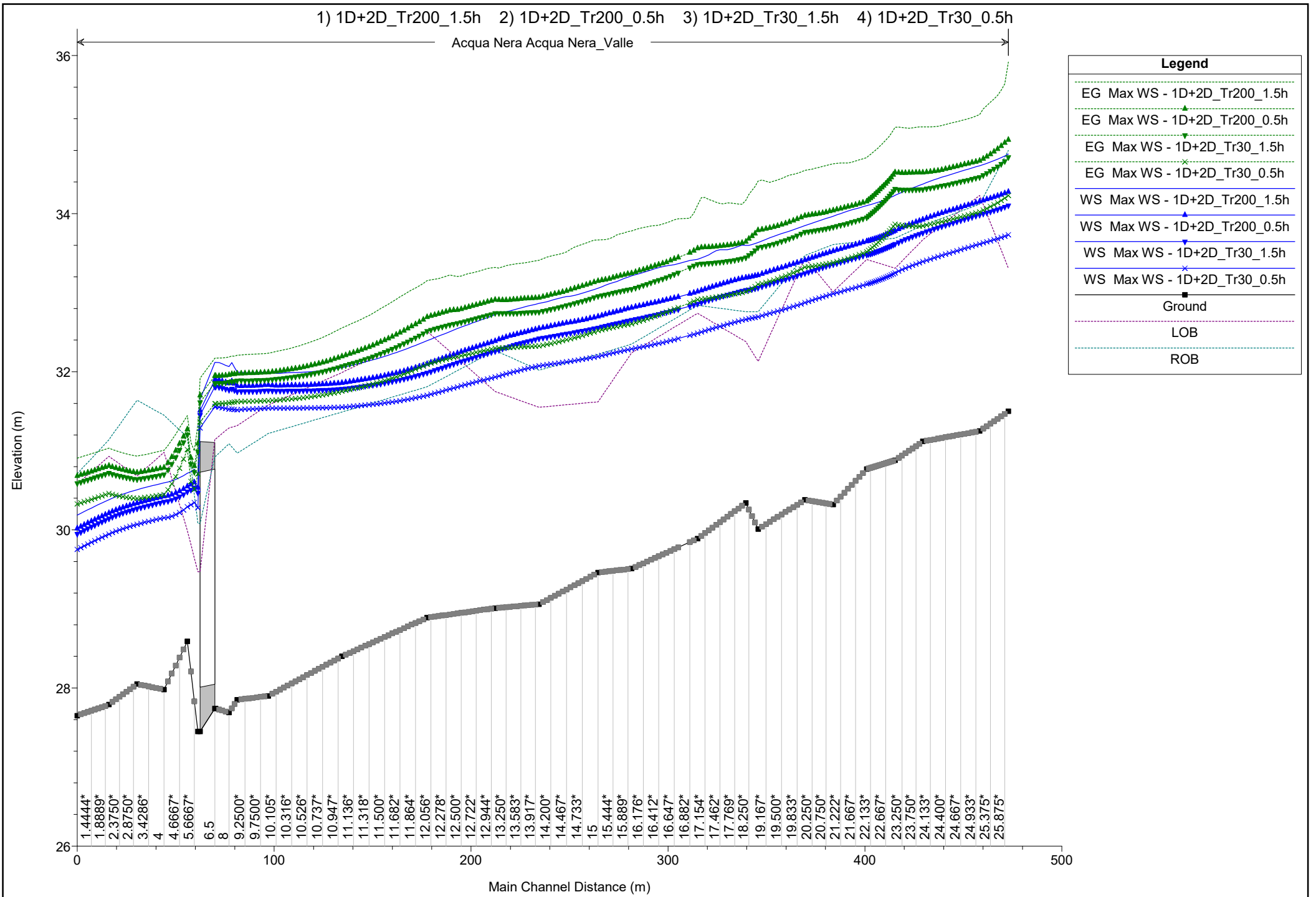
38  
37  
36  
35  
34  
33  
32  
31

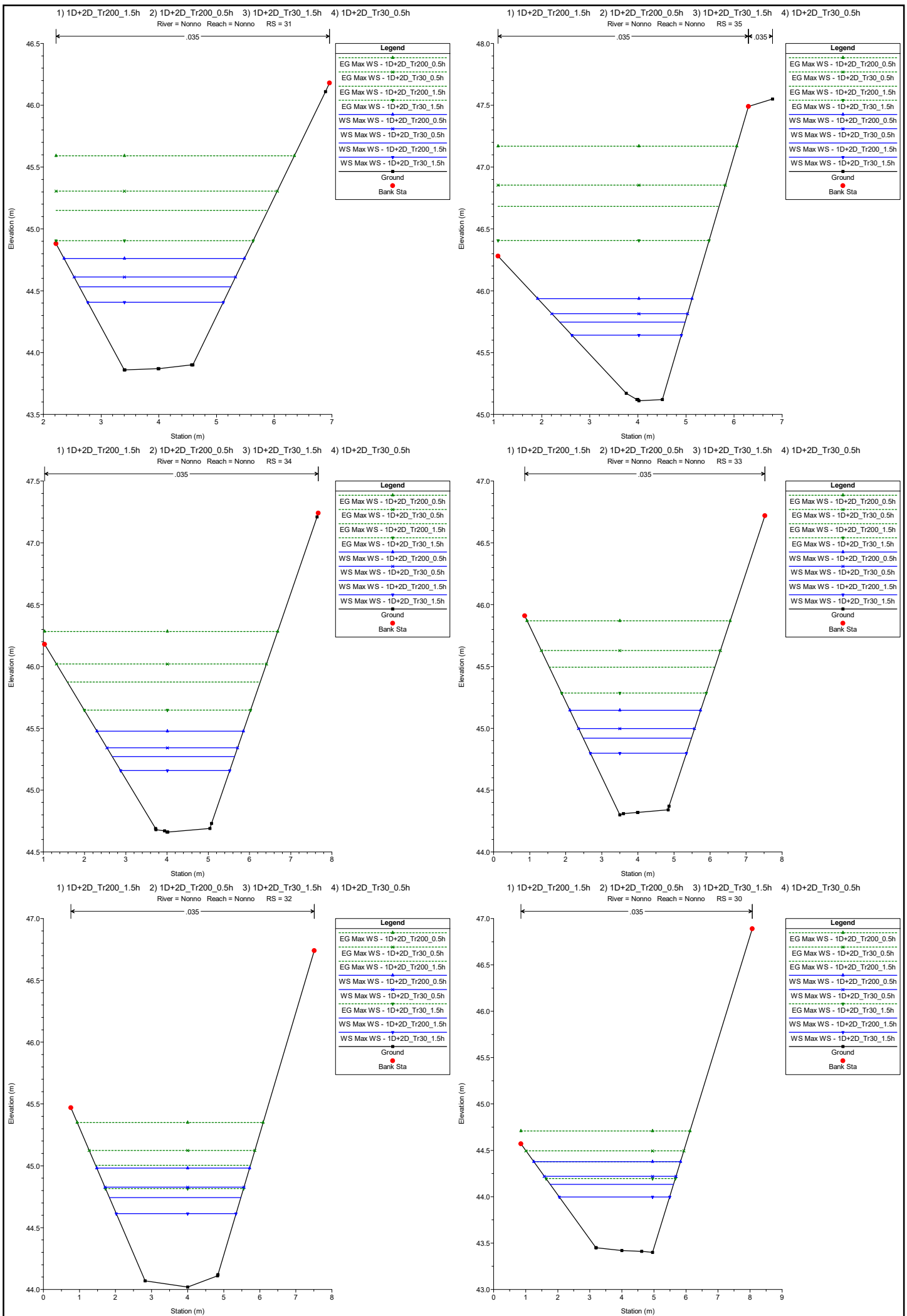
Main Channel Distance (m)

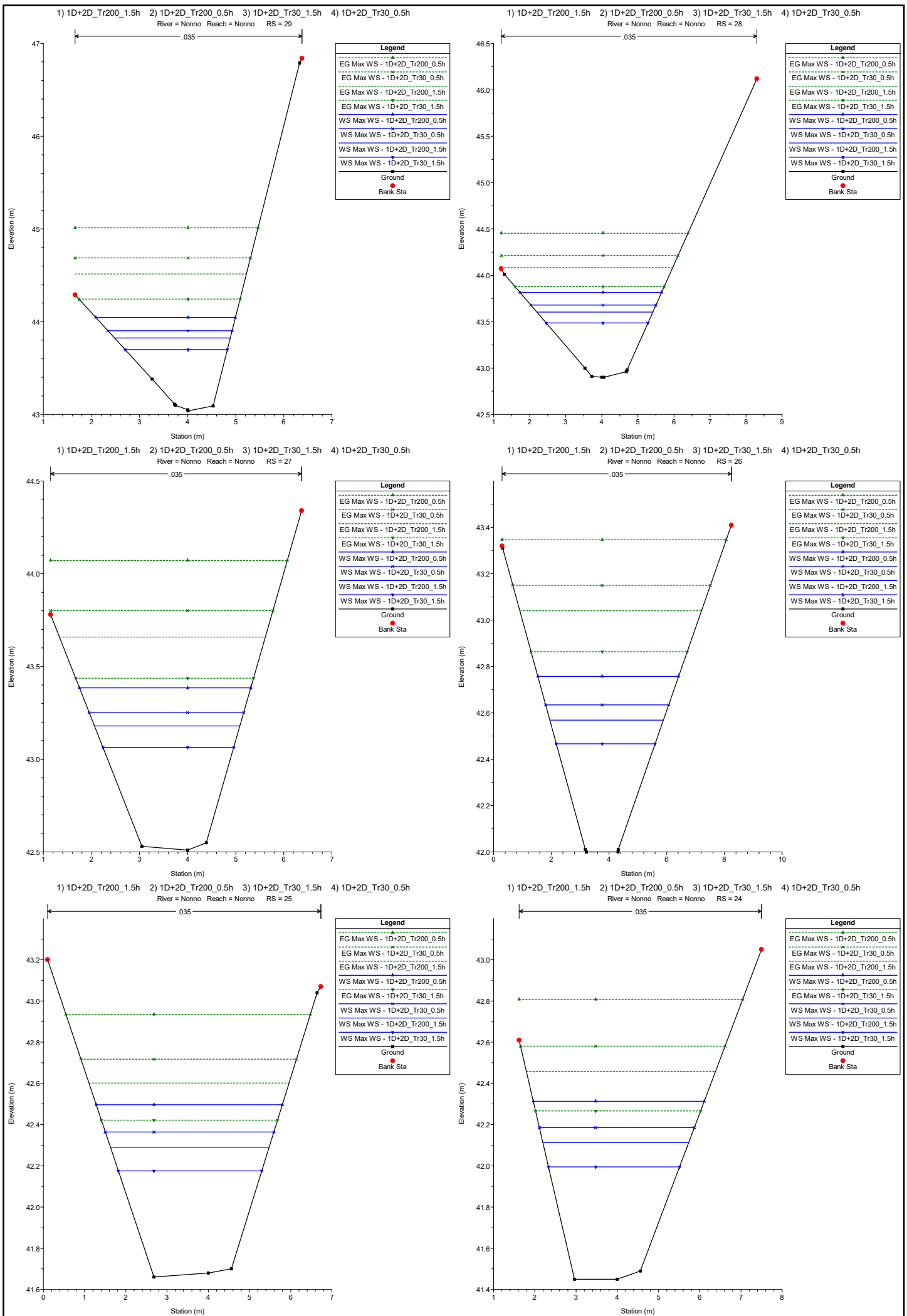
| Legend                       |  |
|------------------------------|--|
| EG Max WS - 1D+2D_Tr200_1.5h |  |
| WS Max WS - 1D+2D_Tr200_1.5h |  |
| EG Max WS - 1D+2D_Tr200_0.5h |  |
| WS Max WS - 1D+2D_Tr200_0.5h |  |
| EG Max WS - 1D+2D_Tr30_1.5h  |  |
| WS Max WS - 1D+2D_Tr30_1.5h  |  |
| EG Max WS - 1D+2D_Tr30_0.5h  |  |
| WS Max WS - 1D+2D_Tr30_0.5h  |  |
| Ground                       |  |
| LOB                          |  |
| ROB                          |  |

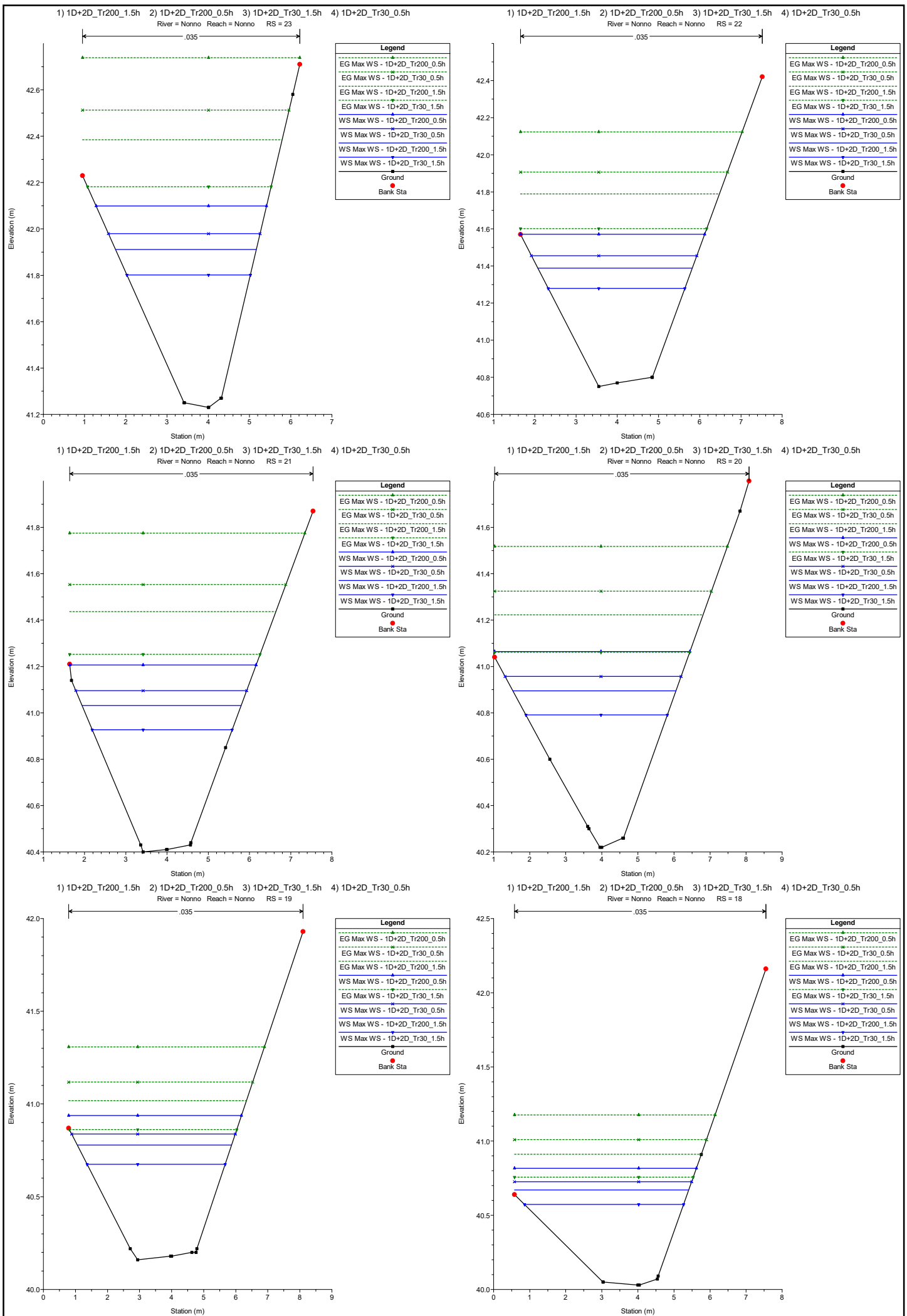
27.750\* 28.500\* 29.250\* 30 30.429\* 30.857\* 31.333\* 31.833\* 32.500\* 33.200\* 33.800\* 34.286\* 34.714\* 35.250\* 36 36.600\* 37.250\* 38 38.750\* 39.500\* 40.167\* 40.667\* 41.143\* 41.571\* 42 42.500\* 43 44 44.600\* 45.143\* 45.571\* 46 46.333\* 46.667\* 47 48.333\* 49.250\* 50 50.125\* 50.250\* 50.375\* 50.500\* 50.625\* 50.750\* 50.875\* 51 51.429\* 51.857\* 52.500\* 53.200\* 53.800\* 54.286\* 54.714\*

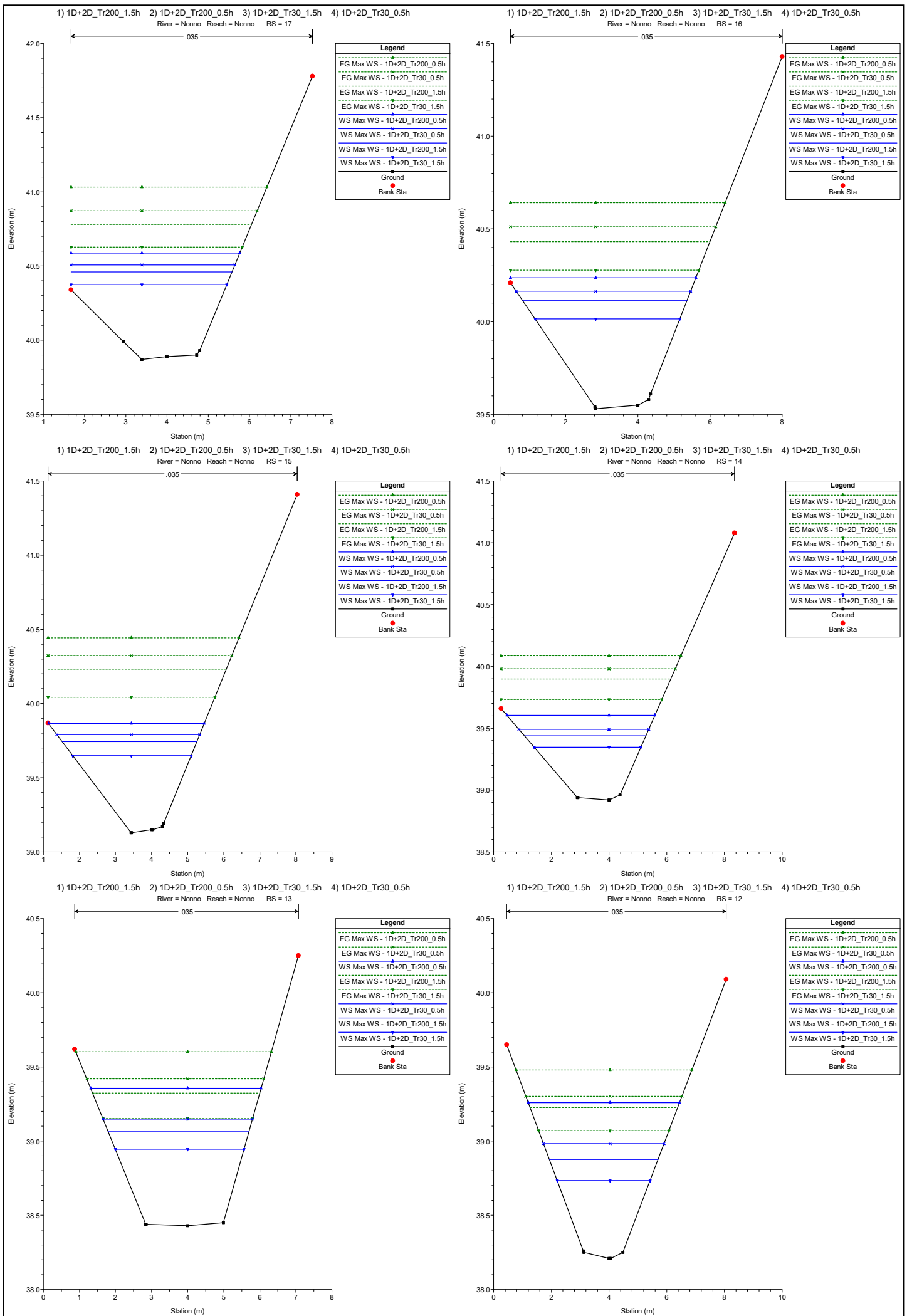


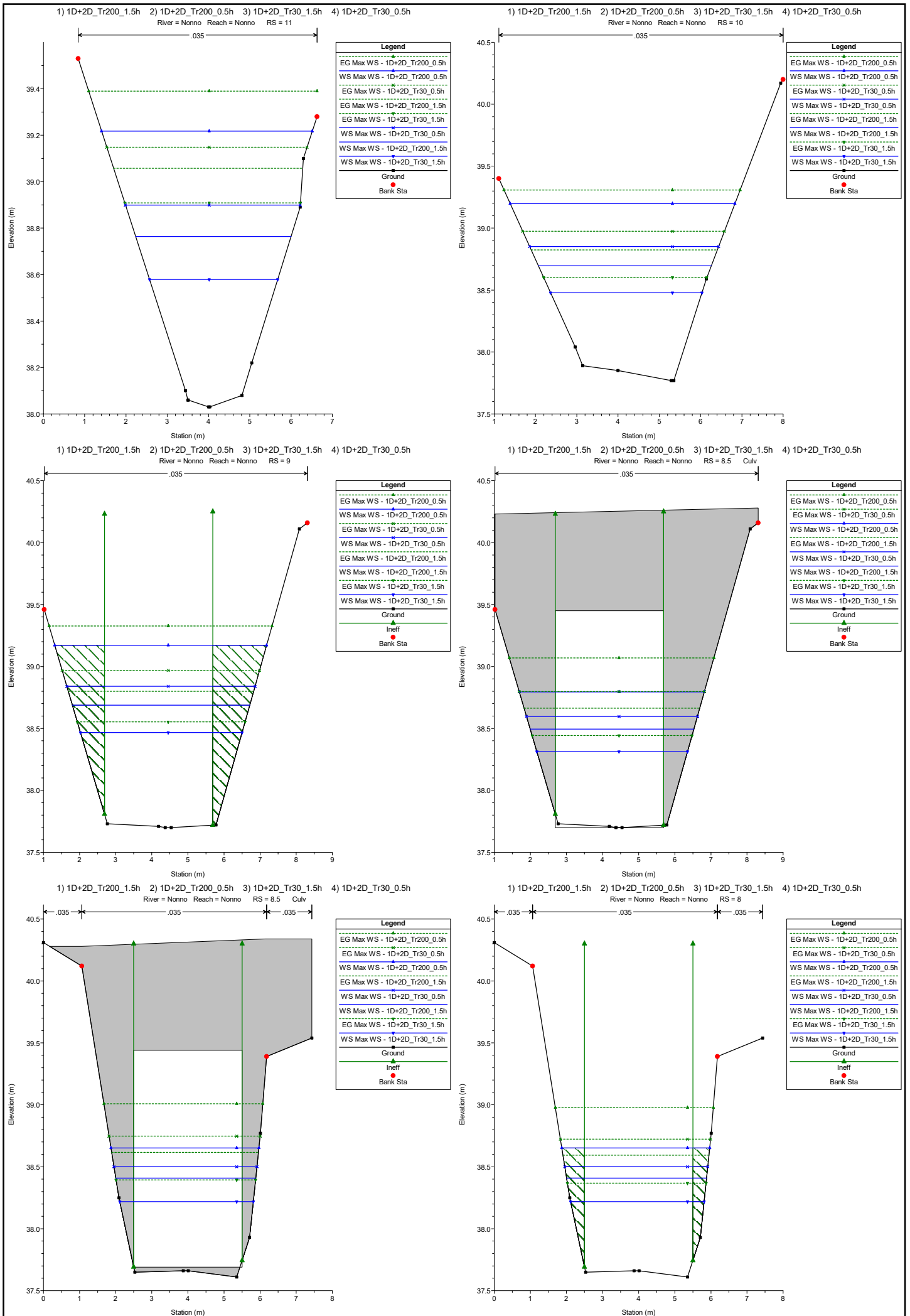




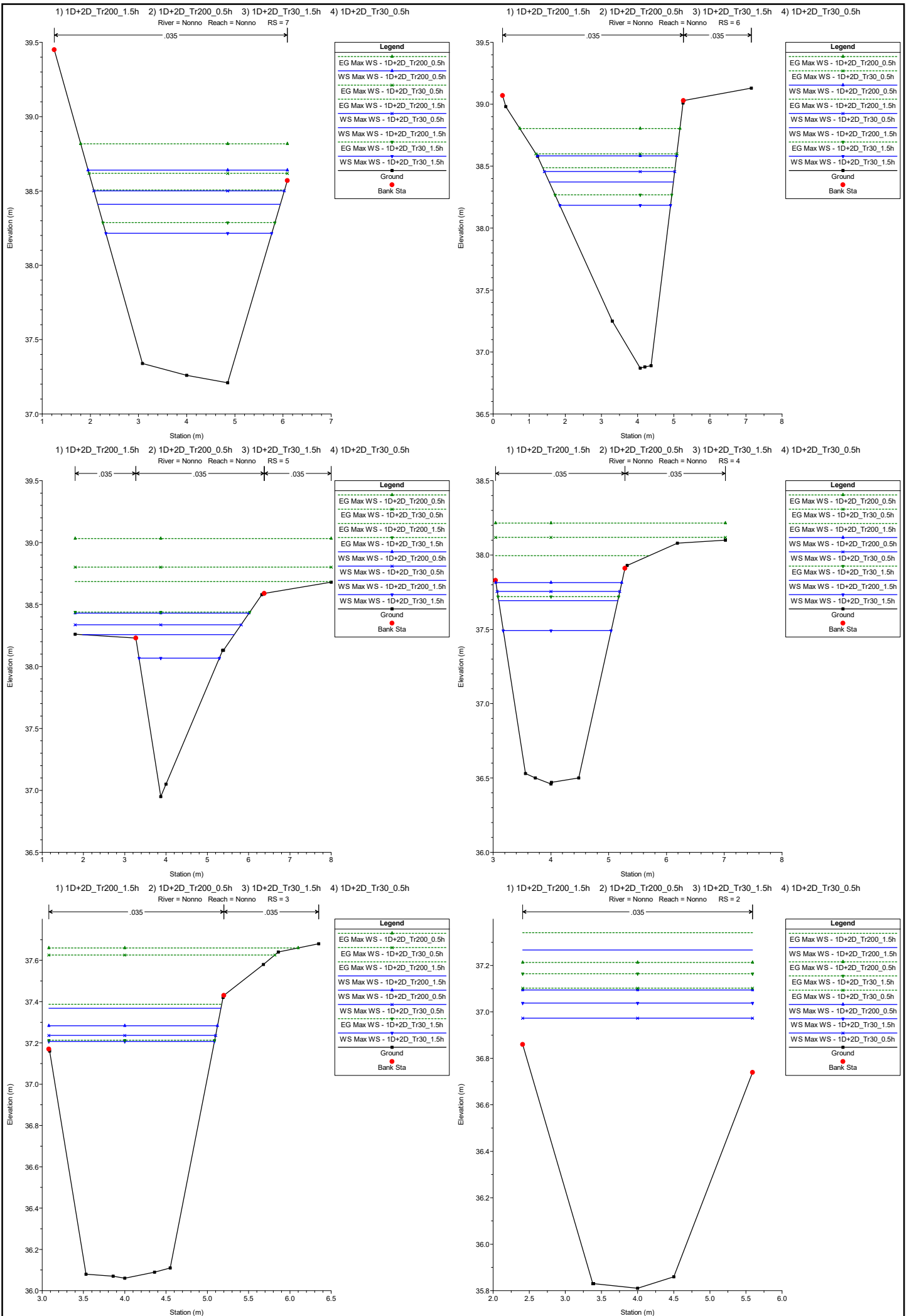












1) 1D+2D\_Tr200\_1.5h 2) 1D+2D\_Tr200\_0.5h 3) 1D+2D\_Tr30\_1.5h 4) 1D+2D\_Tr30\_0.5h

River = Nonno Reach = Nonno RS = 1

← .035 →

