



Appendix C

Maximum Water Surface Elevations

Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation | | | | | |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
| | | 2-Yr (ft) | 5-Yr (ft) | 10-Yr (ft) | 25-Yr (ft) | 50-Yr (ft) | 100-Yr (ft) |
| 117 | 6.50 | 0.97 | 1.01 | 1.05 | 1.13 | 1.23 | 1.30 |
| 123 | 7.80 | 3.70 | 3.75 | 3.78 | 3.82 | 3.85 | 3.89 |
| 129 | 6.50 | 1.17 | 1.37 | 1.53 | 1.83 | 2.13 | 2.32 |
| 131 | 6.50 | 1.55 | 1.98 | 2.29 | 2.73 | 3.12 | 3.36 |
| 137 | 10.00 | 6.72 | 7.07 | 7.25 | 7.45 | 7.66 | 7.84 |
| 139 | 10.00 | 6.75 | 7.11 | 7.30 | 7.51 | 7.73 | 7.95 |
| 145 | 8.00 | 4.97 | 5.22 | 5.34 | 5.47 | 5.47 | 5.47 |
| 147 | 8.50 | 6.66 | 6.99 | 7.15 | 7.26 | 7.26 | 7.26 |
| 149 | 9.00 | 7.11 | 8.04 | 8.65 | 9.00 | 9.00 | 9.00 |
| 153 | 8.00 | 1.68 | 2.11 | 2.40 | 2.82 | 3.20 | 3.43 |
| 155 | 6.50 | 1.86 | 2.37 | 2.66 | 3.06 | 3.40 | 3.62 |
| 157 | 6.11 | 1.87 | 2.37 | 2.66 | 3.06 | 3.40 | 3.62 |
| 159 | 6.01 | 1.87 | 2.37 | 2.66 | 3.06 | 3.40 | 3.62 |
| 161 | 6.50 | 1.89 | 2.38 | 2.66 | 3.07 | 3.40 | 3.62 |
| 165 | 9.50 | 2.39 | 2.99 | 3.13 | 3.28 | 3.42 | 3.63 |
| 167 | 18.15 | 16.03 | 16.59 | 16.53 | 16.49 | 16.47 | 16.47 |
| 169 | 18.00 | 16.82 | 17.12 | 17.11 | 17.10 | 17.10 | 17.10 |
| 171 | 18.00 | 16.99 | 17.32 | 17.32 | 17.31 | 17.31 | 17.31 |
| 173 | 18.00 | 17.15 | 17.45 | 17.45 | 17.45 | 17.45 | 17.45 |
| 175 | 18.00 | 17.43 | 18.00 | 18.00 | 18.00 | 18.00 | 18.01 |
| 177 | 11.00 | 3.29 | 3.93 | 4.27 | 4.62 | 4.89 | 5.04 |
| 181 | 12.77 | 10.68 | 10.91 | 11.02 | 11.13 | 11.25 | 11.36 |
| 183 | 13.75 | 11.71 | 11.99 | 12.15 | 12.33 | 12.55 | 12.80 |
| 187 | 10.50 | 3.34 | 4.00 | 4.32 | 4.66 | 4.92 | 5.08 |
| 189 | 10.00 | 6.18 | 6.19 | 6.14 | 6.10 | 6.07 | 6.04 |
| 191 | 10.00 | 9.74 | 10.02 | 10.03 | 10.04 | 10.06 | 10.09 |
| 193 | 11.96 | 9.78 | 10.68 | 10.91 | 10.96 | 10.94 | 10.78 |
| 195 | 12.00 | 10.85 | 12.00 | 12.01 | 12.02 | 12.03 | 12.04 |
| 203 | 14.00 | 5.30 | 5.59 | 5.78 | 6.01 | 6.27 | 6.46 |
| 205 | 14.00 | 5.30 | 5.59 | 5.78 | 6.01 | 6.27 | 6.46 |
| 207 | 12.52 | 7.11 | 7.26 | 7.26 | 7.21 | 7.16 | 7.12 |
| 209 | 10.00 | 10.01 | 10.02 | 10.03 | 10.04 | 10.05 | 10.07 |
| 219 | 7.50 | 3.34 | 4.06 | 4.47 | 4.92 | 5.14 | 5.40 |
| 221 | 7.50 | 3.34 | 4.05 | 4.45 | 4.88 | 4.99 | 5.07 |
| 225 | 8.00 | 5.28 | 5.86 | 6.15 | 6.48 | 6.83 | 7.14 |
| 227 | 14.65 | 6.32 | 6.86 | 7.14 | 7.44 | 7.75 | 8.03 |
| 229 | 14.81 | 7.23 | 8.14 | 8.87 | 9.80 | 11.44 | 12.30 |
| 233 | 8.70 | 3.35 | 4.08 | 4.50 | 4.96 | 5.23 | 5.54 |
| 241 | 6.70 | 2.12 | 2.59 | 2.87 | 3.16 | 3.42 | 3.63 |

Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation | | | | | |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
| | | 2-Yr (ft) | 5-Yr (ft) | 10-Yr (ft) | 25-Yr (ft) | 50-Yr (ft) | 100-Yr (ft) |
| 245 | 5.00 | 3.29 | 4.06 | 4.51 | 4.98 | 5.00 | 5.04 |
| 247 | 6.00 | 3.66 | 4.61 | 5.08 | 5.59 | 6.07 | 6.24 |
| 251 | 7.50 | 3.89 | 4.80 | 5.24 | 5.77 | 6.20 | 6.36 |
| 253 | 7.60 | 4.23 | 4.94 | 5.38 | 5.97 | 6.44 | 6.59 |
| 255 | 9.00 | 7.32 | 8.02 | 8.45 | 8.90 | 9.01 | 9.01 |
| 257 | 8.20 | 6.46 | 7.00 | 7.22 | 7.36 | 7.43 | 7.46 |
| 259 | 8.30 | 6.65 | 7.54 | 8.00 | 8.30 | 8.33 | 8.35 |
| 261 | 9.00 | 7.29 | 7.95 | 8.38 | 8.83 | 9.00 | 9.00 |
| 263 | 18.63 | 7.98 | 8.61 | 8.92 | 9.25 | 18.63 | 18.63 |
| 265 | 10.00 | 7.51 | 8.11 | 8.50 | 8.95 | 9.19 | 9.22 |
| 267 | 17.47 | 7.89 | 8.55 | 9.17 | 10.07 | 10.23 | 10.52 |
| 269 | 17.79 | 7.95 | 8.58 | 9.19 | 10.10 | 10.33 | 10.64 |
| 271 | 10.00 | 7.77 | 8.52 | 9.15 | 10.00 | 10.02 | 10.04 |
| 273 | 17.12 | 7.86 | 8.29 | 8.55 | 9.01 | 9.31 | 9.46 |
| 275 | 17.45 | 8.19 | 8.56 | 8.77 | 9.05 | 9.40 | 9.65 |
| 277 | 8.50 | 4.71 | 5.55 | 5.93 | 6.33 | 6.80 | 7.00 |
| 279 | 7.30 | 4.91 | 5.66 | 6.07 | 6.49 | 6.90 | 7.04 |
| 281 | 7.30 | 6.11 | 6.62 | 6.68 | 7.30 | 7.31 | 7.32 |
| 283 | 9.60 | 6.05 | 6.86 | 7.06 | 7.27 | 7.51 | 7.66 |
| 285 | 9.10 | 6.30 | 7.24 | 7.47 | 7.72 | 7.98 | 8.15 |
| 287 | 9.91 | 7.68 | 8.42 | 8.60 | 8.84 | 9.04 | 9.15 |
| 289 | 9.70 | 9.46 | 9.71 | 9.71 | 9.72 | 9.73 | 9.75 |
| 293 | 11.60 | 8.60 | 9.43 | 9.83 | 10.16 | 10.41 | 10.54 |
| 295 | 11.60 | 8.65 | 9.53 | 10.04 | 10.43 | 10.70 | 10.84 |
| 297 | 13.11 | 10.16 | 10.90 | 11.05 | 11.20 | 11.35 | 11.45 |
| 299 | 13.04 | 10.93 | 12.85 | 13.04 | 13.05 | 13.05 | 13.06 |
| 305 | 6.00 | 1.99 | 2.69 | 3.14 | 3.57 | 3.87 | 4.12 |
| 307 | 6.00 | 2.17 | 3.01 | 3.54 | 3.96 | 4.25 | 4.48 |
| 309 | 8.00 | 4.15 | 4.82 | 5.16 | 5.52 | 5.90 | 6.24 |
| 311 | 8.00 | 4.34 | 5.10 | 5.53 | 6.08 | 6.84 | 7.51 |
| 313 | 6.35 | 2.22 | 3.10 | 3.66 | 4.08 | 4.37 | 4.59 |
| 315 | 6.41 | 2.23 | 3.11 | 3.67 | 4.09 | 4.38 | 4.61 |
| 317 | 6.00 | 2.26 | 3.17 | 3.74 | 4.17 | 4.46 | 4.69 |
| 321 | 6.00 | 2.37 | 3.35 | 3.96 | 4.39 | 4.69 | 4.90 |
| 325 | 10.00 | 3.70 | 4.09 | 4.27 | 4.44 | 4.69 | 4.90 |
| 327 | 11.00 | 10.08 | 10.59 | 10.59 | 10.58 | 10.57 | 10.57 |
| 329 | 11.00 | 10.29 | 11.00 | 11.00 | 11.01 | 11.01 | 11.02 |
| 333 | 6.35 | 2.60 | 3.73 | 4.41 | 4.84 | 5.14 | 5.32 |
| 335 | 7.00 | 4.69 | 5.71 | 6.25 | 6.81 | 7.00 | 7.01 |

Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation | | | | | |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
| | | 2-Yr (ft) | 5-Yr (ft) | 10-Yr (ft) | 25-Yr (ft) | 50-Yr (ft) | 100-Yr (ft) |
| 337 | 6.00 | 2.95 | 4.28 | 5.04 | 5.44 | 5.73 | 5.89 |
| 339 | 6.00 | 2.96 | 4.30 | 5.08 | 5.48 | 5.77 | 5.93 |
| 341 | 6.00 | 3.06 | 4.43 | 5.25 | 5.64 | 5.95 | 6.11 |
| 343 | 6.00 | 3.06 | 4.45 | 5.28 | 5.69 | 6.00 | 6.14 |
| 345 | 12.70 | 4.52 | 5.34 | 5.68 | 6.22 | 6.60 | 6.89 |
| 347 | 12.70 | 4.91 | 5.64 | 5.95 | 6.45 | 6.83 | 7.16 |
| 349 | 12.00 | 5.83 | 6.76 | 7.09 | 7.47 | 7.81 | 8.13 |
| 351 | 12.00 | 5.87 | 6.81 | 7.15 | 7.54 | 7.90 | 8.24 |
| 353 | 11.00 | 5.99 | 7.01 | 7.36 | 7.77 | 8.14 | 8.49 |
| 355 | 11.00 | 6.23 | 7.24 | 7.57 | 7.94 | 8.28 | 8.61 |
| 357 | 11.00 | 6.42 | 7.42 | 7.74 | 8.08 | 8.42 | 8.73 |
| 361 | 12.00 | 9.06 | 10.09 | 10.19 | 10.31 | 10.47 | 10.65 |
| 363 | 12.00 | 9.10 | 10.20 | 10.32 | 10.45 | 10.64 | 10.83 |
| 365 | 14.00 | 10.36 | 11.21 | 11.44 | 11.63 | 11.82 | 11.99 |
| 367 | 12.50 | 11.68 | 12.50 | 12.51 | 12.51 | 12.53 | 12.54 |
| 369 | 12.50 | 11.85 | 12.51 | 12.52 | 12.54 | 12.58 | 12.63 |
| 371 | 22.30 | 11.79 | 12.84 | 13.03 | 13.27 | 13.61 | 13.99 |
| 373 | 22.44 | 12.02 | 13.49 | 14.15 | 15.12 | 16.27 | 17.46 |
| 381 | 15.10 | 11.98 | 12.74 | 12.91 | 13.11 | 13.32 | 13.52 |
| 383 | 18.91 | 12.56 | 12.88 | 13.07 | 13.30 | 13.54 | 13.75 |
| 385 | 19.33 | 13.45 | 14.60 | 15.45 | 16.60 | 18.40 | 19.33 |
| 393 | 9.50 | 4.53 | 5.71 | 6.35 | 6.84 | 7.19 | 7.55 |
| 395 | 6.00 | 3.50 | 4.98 | 5.88 | 6.16 | 6.45 | 6.73 |
| 397 | 6.00 | 3.44 | 4.83 | 5.70 | 6.08 | 6.38 | 6.64 |
| 405 | 12.30 | 3.67 | 5.11 | 6.07 | 6.77 | 7.40 | 7.98 |
| 407 | 10.00 | 3.68 | 5.14 | 6.14 | 6.95 | 7.68 | 8.48 |
| 413 | 12.00 | 7.93 | 8.87 | 9.44 | 10.11 | 11.04 | 11.96 |
| 415 | 12.00 | 7.94 | 8.88 | 9.45 | 10.13 | 11.06 | 11.97 |
| 417 | 12.00 | 8.56 | 9.28 | 9.69 | 10.23 | 11.10 | 11.99 |
| 419 | 12.00 | 8.58 | 9.31 | 9.73 | 10.26 | 11.11 | 12.01 |
| 423 | 14.50 | 13.39 | 14.35 | 14.50 | 14.50 | 14.51 | 14.51 |
| 429 | 10.50 | 4.43 | 5.68 | 6.62 | 7.55 | 8.39 | 9.09 |
| 431 | 11.60 | 4.49 | 5.68 | 6.63 | 7.57 | 8.43 | 9.19 |
| 437 | 13.00 | 6.43 | 6.91 | 7.19 | 7.67 | 8.55 | 9.35 |
| 441 | 10.50 | 4.75 | 5.75 | 6.69 | 7.71 | 8.60 | 9.34 |
| 445 | 12.70 | 8.36 | 9.17 | 9.56 | 9.89 | 10.07 | 10.30 |
| 447 | 12.70 | 8.72 | 9.56 | 10.26 | 10.87 | 10.99 | 11.15 |
| 449 | 12.00 | 10.63 | 11.68 | 12.01 | 12.03 | 12.07 | 12.11 |
| 453 | 21.71 | 10.89 | 11.96 | 12.46 | 12.80 | 13.12 | 13.57 |

Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)

Vertical Datum: NAVD 1988

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Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation | | | | | |
|-----------------|-----------------------|--|-----------|------------|--------------|--------------|--------------|
| | | 2-Yr (ft) | 5-Yr (ft) | 10-Yr (ft) | 25-Yr (ft) | 50-Yr (ft) | 100-Yr (ft) |
| 455 | 22.37 | 10.95 | 12.07 | 12.73 | 13.56 | 14.42 | 15.20 |
| 461 | 10.50 | 5.57 | 6.52 | 7.29 | 8.22 | 9.09 | 9.77 |
| 465 | 12.40 | 6.45 | 7.36 | 7.99 | 8.86 | 9.71 | 10.33 |
| 467 | 12.20 | 6.60 | 7.65 | 8.52 | 9.74 | 10.81 | 11.34 |
| 475 | 12.00 | 9.21 | 10.10 | 10.61 | 11.23 | 11.84 | 11.93 |
| 477 | 12.00 | 9.25 | 10.17 | 10.76 | 11.48 | 12.04 | 12.09 |
| 479 | 14.00 | 10.02 | 10.86 | 11.32 | 11.92 | 13.80 | 13.84 |
| 481 | 14.00 | 10.08 | 11.01 | 11.57 | 12.26 | 14.03 | 14.08 |
| 487 | 16.70 | 14.03 | 15.23 | 15.82 | 16.28 | 16.70 | 16.71 |
| 489 | 16.70 | 15.89 | 15.93 | 15.95 | 16.28 | 16.70 | 16.71 |
| 505 | 12.50 | 8.77 | 9.61 | 10.04 | 10.49 | 10.97 | 11.70 |
| 507 | 12.50 | 9.20 | 9.89 | 10.32 | 10.81 | 11.68 | 12.30 |
| 509 | 14.50 | 8.87 | 9.73 | 10.18 | 10.67 | 11.21 | 11.94 |
| 515 | 13.80 | 10.36 | 11.29 | 12.05 | 12.56 | 13.07 | 13.40 |
| 517 | 13.80 | 10.36 | 11.30 | 12.06 | 12.60 | 13.16 | 13.54 |
| 523 | 14.00 | 11.03 | 11.68 | 12.25 | 13.08 | 13.95 | 14.03 |
| 525 | 14.20 | 11.05 | 11.69 | 12.26 | 13.09 | 13.97 | 14.06 |
| 531 | 12.50 | 10.69 | 11.51 | 12.38 | 12.55 | 12.63 | 12.72 |
| 533 | 14.30 | 10.69 | 11.61 | 12.46 | 13.07 | 13.82 | 13.84 |
| 535 | 14.40 | 10.69 | 11.61 | 12.47 | 13.08 | 13.83 | 13.84 |
| 541 | 14.00 | 11.03 | 11.83 | 12.64 | 13.42 | 14.00 | 14.01 |
| 547 | 14.00 | 11.63 | 12.26 | 12.93 | 13.78 | 14.02 | 14.06 |
| 557 | 14.00 | 8.39 | 9.14 | 9.59 | 10.58 | 11.53 | 12.21 |
| 559 | 14.00 | 8.45 | 9.16 | 9.64 | 10.62 | 11.58 | 12.28 |
| 569 | 14.50 | 9.25 | 9.80 | 10.51 | 11.44 | 12.29 | 12.90 |
| 571 | 14.50 | 9.25 | 9.81 | 10.52 | 11.45 | 12.31 | 12.91 |
| 577 | 15.00 | 9.55 | 10.37 | 11.09 | 11.95 | 12.66 | 13.15 |
| 579 | 15.00 | 9.64 | 10.42 | 11.13 | 12.00 | 12.70 | 13.18 |
| 585 | 14.00 | 11.00 | 11.85 | 12.57 | 13.39 | 13.85 | 14.00 |
| 591 | 14.00 | 11.22 | 12.10 | 12.87 | 13.71 | 14.02 | 14.06 |