

# Appendix C

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## Alternative Concept Designs SWMM Model Inputs and Outputs

## Alternative 2 - Stream Route Around SWMM Model Input:

[TITLE]

::Project Title/Notes

[OPTIONS]

::Option Value

FLOW\_UNITS CFS  
INFILTRATION HORTON  
FLOW\_ROUTING DYNWAVE  
LINK\_OFFSETS DEPTH  
MIN\_SLOPE 0  
ALLOW\_PONDING NO  
SKIP\_STEADY\_STATE NO

START\_DATE 09/22/2023  
START\_TIME 00:00:00  
REPORT\_START\_DATE 09/22/2023  
REPORT\_START\_TIME 00:00:00  
END\_DATE 09/25/2023  
END\_TIME 23:00:00  
SWEEP\_START 01/01  
SWEEP\_END 12/31  
DRY\_DAYS 0  
REPORT\_STEP 00:15:00  
WET\_STEP 00:05:00  
DRY\_STEP 01:00:00  
ROUTING\_STEP 0:00:30  
RULE\_STEP 00:00:00

INERTIAL\_DAMPING PARTIAL  
NORMAL\_FLOW\_LIMITED BOTH  
FORCE\_MAIN\_EQUATION H-W  
VARIABLE\_STEP 0.75  
LENGTHENING\_STEP 0  
MIN\_SURFAREA 12.566  
MAX\_TRIALS 8  
HEAD\_TOLERANCE 0.005  
SYS\_FLOW\_TOL 5  
LAT\_FLOW\_TOL 5  
MINIMUM\_STEP 0.5  
THREADS 1

[EVAPORATION]

::Data Source Parameters

::-----

CONSTANT 0.0  
DRY\_ONLY NO

[JUNCTIONS]

::Name Elevation MaxDepth InitDepth SurDepth Aponded

::-----

1	1200.403	0	0	0	0
2	1197.572	0	0	0	0
4	1192	0	0	0	0
5	1188.47	0	0	0	0
6	1192	0	0	0	0

8	1204.056	0	0	0	0
9	1209.983	0	0	0	0
10	1209.5	0	0	0	0

[OUTFALLS]

```

;;Name      Elevation Type      Stage Data      Gated  Route To
-----
7          1186.7  FREE              NO

```

[STORAGE]

```

;;Name      Elev.  MaxDepth InitDepth Shape      Curve Type/Params      SurDepth Fevap  Psi  Ksat  IMD
-----
HartleyPond  1191  16      8      TABULAR  Pond              0      0

```

[CONDUITS]

```

;;Name      From Node  To Node      Length  Roughness InOffset  OutOffset  InitFlow  MaxFlow
-----
RerouteXS1533  1          2          1667    0.06     0      0      0      0
RerouteXS3200  2          4          500     0.06     0      0      0      0
RerouteXS3700  4          5          500     0.06     0      0      0      0
Stand_pipe     6          5          200     0.01     0      0      0      0
ExistingChannel_Downstream 5          7          787     0.06     0      0      0      0
RerouteXS820  8          1          733     0.06     0      0      0      0
Reroute_XS500  9          8          320     0.06     0      0      0      0
Floodplain_to_Pond 10         HartleyPond 1700    0.11     0      0      0      0

```

[WEIRS]

```

;;Name      From Node  To Node      Type      CrestHt  Qcoeff  Gated  EndCon  EndCoeff  Surcharge
RoadWidth  RoadSurf  Coeff. Curve
-----
Reroute/Floodplain_Split 9          10         TRANSVERSE 1.75    3.33    NO     0      0      YES
Standpipe_Inlet HartleyPond 6          TRANSVERSE 8        3.33    NO     0      0      YES
HartleyDam    HartleyPond 5          TRANSVERSE 8.6     3.367   NO     0      0      YES

```

[XSECTIONS]

```

;;Link      Shape      Geom1      Geom2      Geom3      Geom4      Barrels  Culvert
-----
RerouteXS1533  IRREGULAR  Station1533
RerouteXS3200  IRREGULAR  Station3200
RerouteXS3700  IRREGULAR  Station3700
Stand_pipe     CIRCULAR   5          0          0          0          1
ExistingChannel_Downstream IRREGULAR  OriginalChannel
RerouteXS820  IRREGULAR  Station820
Reroute_XS500  IRREGULAR  RerouteStart
Floodplain_to_Pond IRREGULAR  Floodplain
Reroute/Floodplain_Split RECT_OPEN  6          50         0.33     0.33
Standpipe_Inlet RECT_OPEN  9          20         0         0
HartleyDam    RECT_OPEN  7.4       20         0.22     0.22

```

[TRANSECTS]

```

;;Transect Data in HEC-2 format
;
NC 0.11  0.11  0.06
X1 Station3700  107  125.40  141.43  0.0  0.0  0.0  0  0.0
GR 1195.6  0  1195.59  4.265091864  1195.95  7.545931759  1195.88  9.186351706  1195.78  11.15485564

```

GR 1195.87 12.4671916 1196.01 14.43569554 1195.95 16.07611549 1195.86 17.71653543 1195.82 19.35695538  
GR 1195.83 20.99737533 1195.79 22.30971129 1195.72 24.27821522 1195.62 25.91863517 1195.56 27.55905512  
GR 1195.54 29.19947507 1195.52 29.85564304 1195.44 30.51181102 1195.42 30.83989501 1195.4 31.167979  
GR 1195.34 32.48031496 1195.21 34.12073491 1195.14 35.76115486 1195.03 37.72965879 1194.95 39.37007874  
GR 1194.84 41.01049869 1194.75 42.65091864 1194.61 44.29133858 1194.53 45.93175853 1194.16 50.85301837  
GR 1193.9 53.47769029 1193.72 55.44619423 1193.69 55.77427822 1193.62 57.08661417 1193.42 59.05511811  
GR 1193.29 62.66404199 1193.15 64.30446194 1193.05 65.94488189 1193.03 66.27296588 1192.97 66.92913386  
GR 1192.95 67.58530184 1192.94 68.56955381 1192.94 69.22572178 1192.86 71.19422572 1192.78 72.50656168  
GR 1192.84 74.14698163 1192.85 74.14698163 1192.86 75.45931759 1192.86 75.78740157 1192.75 77.42782152  
GR 1192.74 78.41207349 1192.75 79.06824147 1192.64 80.70866142 1192.59 82.34908136 1192.43 83.98950131  
GR 1192.36 85.62992126 1192.35 85.95800525 1192.26 87.27034121 1192.27 88.58267717 1192.27 89.23884514  
GR 1192.26 90.87926509 1192.21 92.51968504 1192.02 95.47244094 1191.84 97.44094488 1191.78 99.08136483  
GR 1191.78 99.73753281 1191.78 100.0656168 1191.78 100.7217848 1191.74 101.3779528 1191.63 102.6902887  
GR 1191.5 104.0026247 1191.44 105.6430446 1191.39 106.9553806 1191.39 107.2834646 1191.37 108.5958005  
GR 1191.37 108.9238845 1191.37 109.5800525 1191.37 109.9081365 1191.38 110.5643045 1191.35 111.2204724  
GR 1191.35 111.5485564 1191.33 112.2047244 1191.32 113.8451444 1191.31 113.8451444 1191.3 114.1732283  
GR 1191.22 115.8136483 1191.21 115.8136483 1191 117.1259843 1190.793 117.23 1189.754 119.32  
GR 1189.221 120.39 1189.176 122.79 1189.127 125.40 1188.827 126.31 1188.47 127.40  
GR 1188.476 132.42 1188.485 139.43 1188.728 140.16 1189.147 141.43 1189.184 143.17  
GR 1189.253 146.44 1189.576 147.09 1193.756 148.45 1193.816 151.27 1193.841 152.45  
GR 1189.942 153.26 1188.421 156.31

;

NC 0.11 0.11 0.06

X1 Station1533 468 500.51 516.51 0.0 0.0 0.0 0 0.0

GR 1222.33 0 1222.09 2.296587927 1222.01 3.937007874 1221.88 5.577427822 1221.79 7.217847769  
GR 1221.69 10.49868766 1221.56 12.13910761 1221.47 13.77952756 1221.57 17.06036745 1221.51 18.7007874  
GR 1221.41 20.34120735 1221.2 21.9816273 1221.14 23.62204724 1220.98 25.26246719 1220.94 26.90288714  
GR 1220.71 28.54330709 1220.58 30.18372703 1220.58 31.82414698 1220.62 33.46456693 1220.58 35.10498688  
GR 1220.51 36.74540682 1220.33 38.38582677 1220.29 40.02624672 1220.18 41.66666667 1219.95 43.30708661  
GR 1219.84 45.27559055 1219.84 48.22834646 1219.73 49.8687664 1219.51 51.50918635 1219.33 53.1496063  
GR 1219.09 56.43044619 1218.88 58.07086614 1218.83 59.3832021 1218.73 61.35170604 1218.6 62.99212598  
GR 1218.68 64.63254593 1218.65 66.27296588 1218.53 67.91338583 1218.37 69.55380577 1218.25 71.19422572  
GR 1218.19 72.83464567 1217.98 74.47506562 1217.97 74.47506562 1217.96 74.47506562 1217.84 76.11548556  
GR 1217.74 77.75590551 1217.69 79.06824147 1217.68 79.39632546 1217.71 80.70866142 1217.65 82.34908136  
GR 1217.64 82.67716535 1217.61 84.3175853 1217.58 84.64566929 1217.38 85.62992126 1217.36 85.95800525  
GR 1217.45 87.5984252 1217.47 89.23884514 1217.41 90.87926509 1217.2 92.51968504 1217.03 94.16010499  
GR 1217.02 94.48818898 1216.95 95.47244094 1216.94 95.80052493 1216.99 99.08136483 1216.93 103.0183727  
GR 1216.91 103.3464567 1216.91 104.0026247 1216.9 104.6587927 1216.9 104.9868766 1216.9 105.6430446  
GR 1216.86 107.2834646 1216.63 109.9081365 1216.56 110.5643045 1216.39 113.8451444 1216.28 115.4855643  
GR 1216.21 116.1417323 1216.13 117.1259843 1216.06 120.4068241 1216.07 121.0629921 1216.08 122.0472441  
GR 1216.05 123.0314961 1215.79 126.9685039 1215.74 128.6089239 1215.83 130.2493438 1215.8 131.8897638  
GR 1215.76 132.5459318 1215.69 133.5301837 1215.63 134.1863517 1215.5 135.1706037 1215.45 136.1548556  
GR 1215.44 136.8110236 1215.59 138.4514436 1215.6 139.4356955 1215.61 140.0918635 1215.48 141.4041995  
GR 1215.41 141.7322835 1215.39 142.0603675 1215.38 143.0446194 1215.36 143.3727034 1215.39 146.6535433  
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GR 1214.64 157.808399 1214.53 159.7769029 1214.4 161.4173228 1214.31 163.0577428 1214.32 163.0577428  
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GR 1214.07 172.9002625 1214.06 172.9002625 1213.97 174.5406824 1213.96 174.5406824 1213.79 176.1811024  
GR 1213.79 177.8215223 1213.78 177.8215223 1213.77 179.4619423 1213.68 181.1023622 1213.7 181.4304462  
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GR 1212.96 196.1942257 1212.95 196.8503937 1213.11 199.1469816 1213.08 199.8031496 1213.03 200.1312336  
GR 1213 200.7874016 1212.82 203.0839895 1212.7 204.0682415 1212.7 205.7086614 1212.72 206.3648294

GR 1212.72 206.6929134 1212.74 207.3490814 1212.73 208.0052493 1212.7 208.9895013 1212.65 209.9737533  
GR 1212.59 210.6299213 1212.53 211.2860892 1212.51 211.6141732 1212.44 212.2703412 1212.35 212.9265092  
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GR 1212.13 217.847769 1212.14 218.832021 1212.15 219.816273 1212.17 220.4724409 1212.15 221.1286089  
GR 1212.14 221.4566929 1212.12 222.1128609 1212.08 222.7690289 1212.07 223.0971129 1212.03 223.7532808  
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GR 1205.29 426.1811024 1205.06 427.1653543 1205.02 427.8215223 1204.96 428.1496063 1204.92 428.8057743  
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GR 1200.403 502.51 1200.404 504.14 1200.404 514.51 1200.506 514.82 1202.065 516.51  
GR 1202.116 519.10 1202.386 532.51 1205.699 534.14 1205.886 534.51 1205.901 535.27  
GR 1205.966 538.52 1201.92 541.61 1201.511 542.43

;

NC 0.11 0.11 0.06

X1 Station3200 246 281.74 297.51 0.0 0.0 0.0 0 0.0

GR 1222.28 0 1222.18 0.984251969 1221.93 2.624671916 1221.84 4.265091864 1221.47 7.545931759  
GR 1221.39 9.186351706 1221.41 9.514435696 1221.52 10.49868766 1221.54 10.82677165 1221.54 12.13910761  
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GR 1219.83 30.51181102 1219.89 32.15223097 1219.77 33.79265092 1219.43 35.43307087 1218.9 37.07349081  
GR 1218.56 38.71391076 1218.44 40.35433071 1218.42 41.99475066 1218.45 43.6351706 1218.33 45.27559055  
GR 1218.3 45.60367454 1217.99 46.9160105 1217.56 48.55643045 1217.32 50.19685039 1217.08 51.83727034  
GR 1216.59 55.11811024 1216.28 56.75853018 1215.94 58.39895013 1215.63 60.03937008 1215.28 61.67979003  
GR 1215.03 63.32020997 1214.75 68.24146982 1214.56 69.88188976 1214.22 71.52230971 1214.02 75.1312336  
GR 1213.66 78.0839895 1213.61 81.3648294 1213.67 83.00524934 1213.62 84.64566929 1213.59 84.97375328  
GR 1213.33 86.28608924 1213.29 86.28608924 1212.92 87.92650919 1212.52 89.56692913 1212.2 91.53543307  
GR 1212.01 92.84776903 1211.97 93.17585302 1211.78 94.16010499 1211.74 94.48818898 1211.7 94.81627297  
GR 1211.52 96.12860892 1211.49 97.76902887 1211.59 99.40944882 1211.54 101.0498688 1211.49 101.3779528  
GR 1211.34 102.3622047 1211.29 102.6902887 1211.25 103.0183727 1211.08 104.3307087 1210.96 105.6430446  
GR 1210.92 105.9711286 1210.89 106.2992126 1210.73 107.6115486 1210.8 109.2519685 1210.77 110.8923885  
GR 1210.69 113.1889764 1210.66 114.1732283 1210.64 114.8293963 1210.6 117.1259843 1210.6 119.0944882  
GR 1210.63 120.4068241 1210.65 121.3910761 1210.64 122.0472441 1210.65 122.3753281 1210.61 123.0314961  
GR 1210.57 123.687664 1210.54 124.015748 1210.49 124.671916 1210.44 125.328084 1210.38 125.656168  
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GR 1206.04 750.984252 1206.08 751.9685039 1206.1 752.2965879 1206.11 752.9527559 1206.12 753.6089239  
 GR 1206.06 755.5774278 1206.32 761.8110236 1206.37 762.4671916 1206.41 762.7952756 1206.53 764.1076115  
 GR 1206.63 766.4041995 1206.68 767.3884514 1206.71 767.7165354 1206.74 767.7165354 1206.81 768.7007874  
 GR 1206.83 769.3569554 1206.86 770.0131234 1206.87 770.0131234 1207.21 772.3097113 1207.7 781.496063  
 GR 1207.72 781.824147 1207.74 781.824147 1207.84 782.808399 1207.86 782.808399 1207.97 783.7926509  
 GR 1208 784.1207349 1208.23 791.0104987 1208.28 791.9947507 1208.54 794.6194226 1208.61 795.9317585  
 GR 1208.62 795.9317585 1208.45 800.5249344 1208.64 802.8215223 1208.75 810.0393701 1208.92 811.023622  
 GR 1209.07 812.007874 1209.12 812.335958 1209.18 812.992126 1209.13 815.9448819 1209.34 818.2414698  
 GR 1209.55 819.8818898 1209.72 822.1784777 1209.67 822.8346457 1209.59 826.1154856 1209.61 826.4435696  
 GR 1209.66 827.0997375 1209.73 827.7559055 1209.75 828.0839895 1209.87 830.0524934 1209.88 830.0524934  
 GR 1209.92 830.3805774 1210.09 831.0367454 1210.3 832.3490814 1210.36 833.9895013 1210.35 835.6299213  
 GR 1210.34 835.9580052 1210.28 836.9422572 1210.25 837.9265092 1210.24 840.5511811 1210.25 841.2073491  
 GR 1210.27 841.8635171 1210.3 842.191601 1210.42 842.847769 1210.53 844.160105 1210.41 848.0971129  
 GR 1210.44 850.0656168 1210.58 854.0026247 1210.6 858.5958005 1210.86 860.5643045 1211.04 862.8608924  
 GR 1211.06 864.1732283 1210.79 866.4698163 1210.68 867.1259843 1210.68 867.7821522 1210.68 868.1102362  
 GR 1210.77 868.7664042 1210.86 869.7506562 1210.88 870.0787402 1210.96 871.0629921 1210.98 871.0629921  
 GR 1211.03 872.7034121 1211.07 873.687664 1211.66 878.2808399 1211.74 880.2493438 1211.76 881.8897638  
 GR 1211.7 884.5144357 1211.73 885.4986877 1211.77 886.1548556 1211.84 886.8110236 1211.98 888.1233596  
 GR 1212.17 890.0918635 1212.46 894.3569554 1212.51 894.6850394 1212.53 895.3412073 1212.61 896.9816273  
 GR 1212.72 901.2467192 1213.26 906.824147 1213.27 907.808399 1213.22 909.7769029 1213.2 910.1049869  
 GR 1213.08 911.0892388 1213.06 911.7454068 1213.03 912.4015748 1213.02 912.7296588 1213.25 918.3070866  
 GR 1213.25 919.6194226 1213.24 920.2755906 1213.23 920.6036745 1213.22 921.2598425 1213.62 925.5249344  
 GR 1213.75 926.5091864 1214.06 928.4776903 1214.14 928.8057743 1214.16 929.7900262 1214.17 932.0866142  
 GR 1214.17 932.4146982 1214.18 932.4146982 1214.19 932.4146982 1214.29 933.7270341 1214.31 934.3832021  
 GR 1214.34 934.7112861 1214.36 935.3674541 1214.38 936.023622 1214.39 937.007874 1214.41 942.2572178  
 GR 1214.48 942.9133858 1214.56 943.8976378 1214.63 945.5380577 1214.64 945.5380577 1214.68 946.5223097  
 GR 1214.7 946.5223097 1215.16 951.1154856 1215.24 952.4278215 1215.25 952.4278215 1215.32 953.7401575  
 GR 1215.39 954.3963255 1215.41 954.7244094 1215.54 956.3648294 1215.55 957.0209974 1215.54 958.3333333  
 GR 1215.53 958.3333333 1215.5 958.9895013 1215.47 959.6456693 1215.41 960.3018373 1215.39 960.6299213  
 GR 1215.35 960.9580052 1215.27 962.5984252 1215.3 962.9265092 1215.33 963.9107612 1215.35 964.2388451  
 GR 1215.36 964.5669291 1215.41 965.5511811 1215.42 965.8792651 1215.44 966.5354331 1215.43 966.8635171  
 GR 1215.36 967.847769 1215.25 969.488189

[INFLOWS]

;;Node	Constituent	Time Series	Type	Mfactor	Sfactor	Baseline	Pattern
9	FLOW	CalibratedInflow	FLOW	1.0	1.0		

[CURVES]

;;Name	Type	X-Value	Y-Value
Pond	Storage	1	327
Pond		2	26498
Pond		3	66828
Pond		4	87012
Pond		5	112685
Pond		6	168147
Pond		7	290866
Pond		8	397877
Pond		9	453214
Pond		16	1024684

[TIMESERIES]

;;Name	Date	Time	Value
Inflow		0:15:00	0

Inflow	0:30:00	0
Inflow	0:45:00	0
Inflow	1:00:00	0
Inflow	1:15:00	0
Inflow	1:30:00	0.01
Inflow	1:45:00	0.01
Inflow	2:00:00	0.02
Inflow	2:15:00	0.02
Inflow	2:30:00	0.03
Inflow	2:45:00	0.05
Inflow	3:00:00	0.07
Inflow	3:15:00	0.1
Inflow	3:30:00	0.13
Inflow	3:45:00	0.2
Inflow	4:00:00	0.29
Inflow	4:15:00	0.42
Inflow	4:30:00	0.02
Inflow	4:45:00	0.14
Inflow	5:00:00	0.34
Inflow	5:15:00	0.61
Inflow	5:30:00	0.97
Inflow	5:45:00	1.41
Inflow	6:00:00	1.91
Inflow	6:15:00	1.8
Inflow	6:30:00	1.72
Inflow	6:45:00	1.88
Inflow	7:00:00	2.3
Inflow	7:15:00	2.96
Inflow	7:30:00	3.82
Inflow	7:45:00	4.85
Inflow	8:00:00	5.98
Inflow	8:15:00	7.18
Inflow	8:30:00	8.49
Inflow	8:45:00	9.86
Inflow	9:00:00	11.19
Inflow	9:15:00	12.54
Inflow	9:30:00	14.39
Inflow	9:45:00	16.11
Inflow	10:00:00	17.79
Inflow	10:15:00	19.33
Inflow	10:30:00	21.01
Inflow	10:45:00	22.77
Inflow	11:00:00	25.03
Inflow	11:15:00	27.52
Inflow	11:30:00	31.03
Inflow	11:45:00	35.06
Inflow	12:00:00	87.8
Inflow	12:15:00	398.07
Inflow	12:30:00	780.29
Inflow	12:45:00	886.2
Inflow	13:00:00	972.43
Inflow	13:15:00	1027.91
Inflow	13:30:00	944.23
Inflow	13:45:00	785.77
Inflow	14:00:00	634.75
Inflow	14:15:00	512.5

Inflow	14:30:00	413.91
Inflow	14:45:00	325.87
Inflow	15:00:00	237.31
Inflow	15:15:00	175.36
Inflow	15:30:00	124.72
Inflow	15:45:00	89.02
Inflow	16:00:00	65.23
Inflow	16:15:00	55.94
Inflow	16:30:00	46.93
Inflow	16:45:00	39.29
Inflow	17:00:00	33.56
Inflow	17:15:00	29.31
Inflow	17:30:00	26
Inflow	17:45:00	23.31
Inflow	18:00:00	21.12
Inflow	18:15:00	19.36
Inflow	18:30:00	18
Inflow	18:45:00	16.97
Inflow	19:00:00	16.2
Inflow	19:15:00	15.64
Inflow	19:30:00	15.23
Inflow	19:45:00	14.92
Inflow	20:00:00	14.69
Inflow	20:15:00	14.53
Inflow	20:30:00	14.26
Inflow	20:45:00	13.92
Inflow	21:00:00	13.58
Inflow	21:15:00	13.23
Inflow	21:30:00	12.85
Inflow	21:45:00	12.43
Inflow	22:00:00	12.07
Inflow	22:15:00	11.75
Inflow	22:30:00	11.44
Inflow	22:45:00	11.16
Inflow	23:00:00	10.91
Inflow	23:15:00	10.71
Inflow	23:30:00	10.54
Inflow	23:45:00	10.4

;  
;Calibrated model inflow, model calibrated using data from September 2023 storms.

CalibratedInflow 9/22/2023	0:15:00	0
CalibratedInflow 9/22/2023	0:30:00	0
CalibratedInflow 9/22/2023	0:45:00	0
CalibratedInflow 9/22/2023	1:00:00	0
CalibratedInflow 9/22/2023	1:15:00	0
CalibratedInflow 9/22/2023	1:30:00	0.01
CalibratedInflow 9/22/2023	1:45:00	0.01
CalibratedInflow 9/22/2023	2:00:00	0.02
CalibratedInflow 9/22/2023	2:15:00	0.02
CalibratedInflow 9/22/2023	2:30:00	0.03
CalibratedInflow 9/22/2023	2:45:00	0.05
CalibratedInflow 9/22/2023	3:00:00	0.07
CalibratedInflow 9/22/2023	3:15:00	0.1
CalibratedInflow 9/22/2023	3:30:00	0.14
CalibratedInflow 9/22/2023	3:45:00	0.2
CalibratedInflow 9/22/2023	4:00:00	0.29

CalibratedInflow	9/22/2023	4:15:00	0.42
CalibratedInflow	9/22/2023	4:30:00	0.02
CalibratedInflow	9/22/2023	4:45:00	0.16
CalibratedInflow	9/22/2023	5:00:00	0.38
CalibratedInflow	9/22/2023	5:15:00	0.71
CalibratedInflow	9/22/2023	5:30:00	1.13
CalibratedInflow	9/22/2023	5:45:00	1.67
CalibratedInflow	9/22/2023	6:00:00	1.87
CalibratedInflow	9/22/2023	6:15:00	1.72
CalibratedInflow	9/22/2023	6:30:00	1.89
CalibratedInflow	9/22/2023	6:45:00	2.43
CalibratedInflow	9/22/2023	7:00:00	3.33
CalibratedInflow	9/22/2023	7:15:00	4.52
CalibratedInflow	9/22/2023	7:30:00	5.94
CalibratedInflow	9/22/2023	7:45:00	7.55
CalibratedInflow	9/22/2023	8:00:00	9.31
CalibratedInflow	9/22/2023	8:15:00	11.12
CalibratedInflow	9/22/2023	8:30:00	13.47
CalibratedInflow	9/22/2023	8:45:00	16.14
CalibratedInflow	9/22/2023	9:00:00	18.36
CalibratedInflow	9/22/2023	9:15:00	20.26
CalibratedInflow	9/22/2023	9:30:00	22.18
CalibratedInflow	9/22/2023	9:45:00	24.23
CalibratedInflow	9/22/2023	10:00:00	26.49
CalibratedInflow	9/22/2023	10:15:00	28.89
CalibratedInflow	9/22/2023	10:30:00	31.69
CalibratedInflow	9/22/2023	10:45:00	34.91
CalibratedInflow	9/22/2023	11:00:00	39.1
CalibratedInflow	9/22/2023	11:15:00	43.9
CalibratedInflow	9/22/2023	11:30:00	51.11
CalibratedInflow	9/22/2023	11:45:00	62.04
CalibratedInflow	9/22/2023	12:00:00	162.07
CalibratedInflow	9/22/2023	12:15:00	504.14
CalibratedInflow	9/22/2023	12:30:00	886.21
CalibratedInflow	9/22/2023	12:45:00	1001.33
CalibratedInflow	9/22/2023	13:00:00	1139.65
CalibratedInflow	9/22/2023	13:15:00	1221.86
CalibratedInflow	9/22/2023	13:30:00	1134.09
CalibratedInflow	9/22/2023	13:45:00	1000.29
CalibratedInflow	9/22/2023	14:00:00	890.39
CalibratedInflow	9/22/2023	14:15:00	748.19
CalibratedInflow	9/22/2023	14:30:00	697.61
CalibratedInflow	9/22/2023	14:45:00	631.26
CalibratedInflow	9/22/2023	15:00:00	574.75
CalibratedInflow	9/22/2023	15:15:00	533.24
CalibratedInflow	9/22/2023	15:30:00	505.31
CalibratedInflow	9/22/2023	15:45:00	466.6
CalibratedInflow	9/22/2023	16:00:00	442.07
CalibratedInflow	9/22/2023	16:15:00	433.46
CalibratedInflow	9/22/2023	16:30:00	428.88
CalibratedInflow	9/22/2023	16:45:00	426.78
CalibratedInflow	9/22/2023	17:00:00	426.33
CalibratedInflow	9/22/2023	17:15:00	425.99
CalibratedInflow	9/22/2023	17:30:00	424.87
CalibratedInflow	9/22/2023	17:45:00	423.24
CalibratedInflow	9/22/2023	18:00:00	421.68



CalibratedInflow	9/22/2023	18:15:00	420.42
CalibratedInflow	9/22/2023	18:30:00	419.38
CalibratedInflow	9/22/2023	18:45:00	418.4
CalibratedInflow	9/22/2023	19:00:00	417.34
CalibratedInflow	9/22/2023	19:15:00	416.15
CalibratedInflow	9/22/2023	19:30:00	414.81
CalibratedInflow	9/22/2023	19:45:00	413.33
CalibratedInflow	9/22/2023	20:00:00	411.73
CalibratedInflow	9/22/2023	20:15:00	410.01
CalibratedInflow	9/22/2023	20:30:00	407.69
CalibratedInflow	9/22/2023	20:45:00	405.19
CalibratedInflow	9/22/2023	21:00:00	402.78
CalibratedInflow	9/22/2023	21:15:00	400.28
CalibratedInflow	9/22/2023	21:30:00	397.34
CalibratedInflow	9/22/2023	21:45:00	393.09
CalibratedInflow	9/22/2023	22:00:00	387.38
CalibratedInflow	9/22/2023	22:15:00	381.46
CalibratedInflow	9/22/2023	22:30:00	376.27
CalibratedInflow	9/22/2023	22:45:00	371.97
CalibratedInflow	9/22/2023	23:00:00	367.94
CalibratedInflow	9/22/2023	23:15:00	364.26
CalibratedInflow	9/22/2023	23:30:00	360.81
CalibratedInflow	9/22/2023	23:45:00	357.24
CalibratedInflow	9/23/2023	0:00:00	353.1
CalibratedInflow	9/23/2023	0:15:00	349
CalibratedInflow	9/23/2023	0:30:00	344.05
CalibratedInflow	9/23/2023	0:45:00	338.34
CalibratedInflow	9/23/2023	1:00:00	331.79
CalibratedInflow	9/23/2023	1:15:00	323.19
CalibratedInflow	9/23/2023	1:30:00	311.87
CalibratedInflow	9/23/2023	1:45:00	298.53
CalibratedInflow	9/23/2023	2:00:00	283.46
CalibratedInflow	9/23/2023	2:15:00	268.59
CalibratedInflow	9/23/2023	2:30:00	255.23
CalibratedInflow	9/23/2023	2:45:00	243.81
CalibratedInflow	9/23/2023	3:00:00	232.72
CalibratedInflow	9/23/2023	3:15:00	221.09
CalibratedInflow	9/23/2023	3:30:00	210.67
CalibratedInflow	9/23/2023	3:45:00	198.81
CalibratedInflow	9/23/2023	4:00:00	188.42
CalibratedInflow	9/23/2023	4:15:00	180.32
CalibratedInflow	9/23/2023	4:30:00	173.27
CalibratedInflow	9/23/2023	4:45:00	166.51
CalibratedInflow	9/23/2023	5:00:00	160.02
CalibratedInflow	9/23/2023	5:15:00	153.84
CalibratedInflow	9/23/2023	5:30:00	147.89
CalibratedInflow	9/23/2023	5:45:00	142.18
CalibratedInflow	9/23/2023	6:00:00	136.58
CalibratedInflow	9/23/2023	6:15:00	131.08
CalibratedInflow	9/23/2023	6:30:00	125.9
CalibratedInflow	9/23/2023	6:45:00	121.22
CalibratedInflow	9/23/2023	7:00:00	116.96
CalibratedInflow	9/23/2023	7:15:00	112.94
CalibratedInflow	9/23/2023	7:30:00	109.08
CalibratedInflow	9/23/2023	7:45:00	105.36
CalibratedInflow	9/23/2023	8:00:00	101.79

CalibratedInflow	9/23/2023	8:15:00	98.4
CalibratedInflow	9/23/2023	8:30:00	95.05
CalibratedInflow	9/23/2023	8:45:00	91.74
CalibratedInflow	9/23/2023	9:00:00	88.55
CalibratedInflow	9/23/2023	9:15:00	85.56
CalibratedInflow	9/23/2023	9:30:00	82.77
CalibratedInflow	9/23/2023	9:45:00	80.16
CalibratedInflow	9/23/2023	10:00:00	77.83
CalibratedInflow	9/23/2023	10:15:00	75.59
CalibratedInflow	9/23/2023	10:30:00	73.49
CalibratedInflow	9/23/2023	10:45:00	71.51
CalibratedInflow	9/23/2023	11:00:00	69.6
CalibratedInflow	9/23/2023	11:15:00	67.74
CalibratedInflow	9/23/2023	11:30:00	65.91
CalibratedInflow	9/23/2023	11:45:00	64.28
CalibratedInflow	9/23/2023	12:00:00	63.2
CalibratedInflow	9/23/2023	12:15:00	61.9
CalibratedInflow	9/23/2023	12:30:00	60.47
CalibratedInflow	9/23/2023	12:45:00	59.01
CalibratedInflow	9/23/2023	13:00:00	57.54
CalibratedInflow	9/23/2023	13:15:00	56.06
CalibratedInflow	9/23/2023	13:30:00	54.61
CalibratedInflow	9/23/2023	13:45:00	53.19
CalibratedInflow	9/23/2023	14:00:00	51.81
CalibratedInflow	9/23/2023	14:15:00	50.48
CalibratedInflow	9/23/2023	14:30:00	49.21
CalibratedInflow	9/23/2023	14:45:00	47.99
CalibratedInflow	9/23/2023	15:00:00	46.83
CalibratedInflow	9/23/2023	15:15:00	45.72
CalibratedInflow	9/23/2023	15:30:00	44.64
CalibratedInflow	9/23/2023	15:45:00	43.62
CalibratedInflow	9/23/2023	16:00:00	42.77
CalibratedInflow	9/23/2023	16:15:00	41.98
CalibratedInflow	9/23/2023	16:30:00	41.2
CalibratedInflow	9/23/2023	16:45:00	40.4
CalibratedInflow	9/23/2023	17:00:00	39.57
CalibratedInflow	9/23/2023	17:15:00	38.73
CalibratedInflow	9/23/2023	17:30:00	37.88
CalibratedInflow	9/23/2023	17:45:00	37.01
CalibratedInflow	9/23/2023	18:00:00	36.13
CalibratedInflow	9/23/2023	18:15:00	35.28
CalibratedInflow	9/23/2023	18:30:00	34.48
CalibratedInflow	9/23/2023	18:45:00	33.71
CalibratedInflow	9/23/2023	19:00:00	32.98
CalibratedInflow	9/23/2023	19:15:00	32.28
CalibratedInflow	9/23/2023	19:30:00	31.59
CalibratedInflow	9/23/2023	19:45:00	30.9
CalibratedInflow	9/23/2023	20:00:00	30.24
CalibratedInflow	9/23/2023	20:15:00	29.61
CalibratedInflow	9/23/2023	20:30:00	29.01
CalibratedInflow	9/23/2023	20:45:00	28.44
CalibratedInflow	9/23/2023	21:00:00	27.87
CalibratedInflow	9/23/2023	21:15:00	27.33
CalibratedInflow	9/23/2023	21:30:00	26.8
CalibratedInflow	9/23/2023	21:45:00	26.29
CalibratedInflow	9/23/2023	22:00:00	25.79

CalibratedInflow	9/23/2023	22:15:00	25.32
CalibratedInflow	9/23/2023	22:30:00	24.85
CalibratedInflow	9/23/2023	22:45:00	24.4
CalibratedInflow	9/23/2023	23:00:00	23.97
CalibratedInflow	9/23/2023	23:15:00	23.54
CalibratedInflow	9/23/2023	23:30:00	23.13
CalibratedInflow	9/23/2023	23:45:00	22.73
CalibratedInflow	9/24/2023	0:00:00	22.34
CalibratedInflow	9/24/2023	0:15:00	21.96
CalibratedInflow	9/24/2023	0:30:00	21.59
CalibratedInflow	9/24/2023	0:45:00	21.24
CalibratedInflow	9/24/2023	1:00:00	20.89
CalibratedInflow	9/24/2023	1:15:00	20.55
CalibratedInflow	9/24/2023	1:30:00	20.22
CalibratedInflow	9/24/2023	1:45:00	19.9
CalibratedInflow	9/24/2023	2:00:00	19.59
CalibratedInflow	9/24/2023	2:15:00	19.28
CalibratedInflow	9/24/2023	2:30:00	18.98
CalibratedInflow	9/24/2023	2:45:00	18.68
CalibratedInflow	9/24/2023	3:00:00	18.39
CalibratedInflow	9/24/2023	3:15:00	18.1
CalibratedInflow	9/24/2023	3:30:00	17.81
CalibratedInflow	9/24/2023	3:45:00	17.53
CalibratedInflow	9/24/2023	4:00:00	17.26
CalibratedInflow	9/24/2023	4:15:00	16.99
CalibratedInflow	9/24/2023	4:30:00	16.72
CalibratedInflow	9/24/2023	4:45:00	16.47
CalibratedInflow	9/24/2023	5:00:00	16.21
CalibratedInflow	9/24/2023	5:15:00	15.97
CalibratedInflow	9/24/2023	5:30:00	15.73
CalibratedInflow	9/24/2023	5:45:00	15.49
CalibratedInflow	9/24/2023	6:00:00	15.26
CalibratedInflow	9/24/2023	6:15:00	15.03
CalibratedInflow	9/24/2023	6:30:00	14.81
CalibratedInflow	9/24/2023	6:45:00	14.58
CalibratedInflow	9/24/2023	7:00:00	14.37
CalibratedInflow	9/24/2023	7:15:00	14.15
CalibratedInflow	9/24/2023	7:30:00	13.95
CalibratedInflow	9/24/2023	7:45:00	13.74
CalibratedInflow	9/24/2023	8:00:00	13.54
CalibratedInflow	9/24/2023	8:15:00	13.35
CalibratedInflow	9/24/2023	8:30:00	13.16
CalibratedInflow	9/24/2023	8:45:00	12.97
CalibratedInflow	9/24/2023	9:00:00	12.78
CalibratedInflow	9/24/2023	9:15:00	12.6
CalibratedInflow	9/24/2023	9:30:00	12.42
CalibratedInflow	9/24/2023	9:45:00	12.25
CalibratedInflow	9/24/2023	10:00:00	12.13
CalibratedInflow	9/24/2023	10:15:00	12.01
CalibratedInflow	9/24/2023	10:30:00	11.88
CalibratedInflow	9/24/2023	10:45:00	11.74
CalibratedInflow	9/24/2023	11:00:00	11.61
CalibratedInflow	9/24/2023	11:15:00	11.47
CalibratedInflow	9/24/2023	11:30:00	11.33
CalibratedInflow	9/24/2023	11:45:00	11.19
CalibratedInflow	9/24/2023	12:00:00	11.05

CalibratedInflow	9/24/2023	12:15:00	10.91
CalibratedInflow	9/24/2023	12:30:00	10.78
CalibratedInflow	9/24/2023	12:45:00	10.64
CalibratedInflow	9/24/2023	13:00:00	10.51
CalibratedInflow	9/24/2023	13:15:00	10.37
CalibratedInflow	9/24/2023	13:30:00	10.24
CalibratedInflow	9/24/2023	13:45:00	10.11
CalibratedInflow	9/24/2023	14:00:00	9.99
CalibratedInflow	9/24/2023	14:15:00	9.86
CalibratedInflow	9/24/2023	14:30:00	9.74
CalibratedInflow	9/24/2023	14:45:00	9.62
CalibratedInflow	9/24/2023	15:00:00	9.5
CalibratedInflow	9/24/2023	15:15:00	9.38
CalibratedInflow	9/24/2023	15:30:00	9.26
CalibratedInflow	9/24/2023	15:45:00	9.15
CalibratedInflow	9/24/2023	16:00:00	9.03
CalibratedInflow	9/24/2023	16:15:00	8.92
CalibratedInflow	9/24/2023	16:30:00	8.82
CalibratedInflow	9/24/2023	16:45:00	8.71
CalibratedInflow	9/24/2023	17:00:00	8.6
CalibratedInflow	9/24/2023	17:15:00	8.5
CalibratedInflow	9/24/2023	17:30:00	8.4
CalibratedInflow	9/24/2023	17:45:00	8.3
CalibratedInflow	9/24/2023	18:00:00	8.2
CalibratedInflow	9/24/2023	18:15:00	8.1
CalibratedInflow	9/24/2023	18:30:00	8.01
CalibratedInflow	9/24/2023	18:45:00	7.91
CalibratedInflow	9/24/2023	19:00:00	7.82
CalibratedInflow	9/24/2023	19:15:00	7.73
CalibratedInflow	9/24/2023	19:30:00	7.64
CalibratedInflow	9/24/2023	19:45:00	7.55
CalibratedInflow	9/24/2023	20:00:00	7.46
CalibratedInflow	9/24/2023	20:15:00	7.37
CalibratedInflow	9/24/2023	20:30:00	7.29
CalibratedInflow	9/24/2023	20:45:00	7.2
CalibratedInflow	9/24/2023	21:00:00	7.12
CalibratedInflow	9/24/2023	21:15:00	7.04
CalibratedInflow	9/24/2023	21:30:00	6.96
CalibratedInflow	9/24/2023	21:45:00	6.88
CalibratedInflow	9/24/2023	22:00:00	6.8
CalibratedInflow	9/24/2023	22:15:00	6.72
CalibratedInflow	9/24/2023	22:30:00	6.65
CalibratedInflow	9/24/2023	22:45:00	6.58
CalibratedInflow	9/24/2023	23:00:00	6.5
CalibratedInflow	9/24/2023	23:15:00	6.43
CalibratedInflow	9/24/2023	23:30:00	6.36
CalibratedInflow	9/24/2023	23:45:00	6.29
CalibratedInflow	9/25/2023	0:00:00	6.22
CalibratedInflow	9/25/2023	0:15:00	6.15
CalibratedInflow	9/25/2023	0:30:00	6.08
CalibratedInflow	9/25/2023	0:45:00	6.02
CalibratedInflow	9/25/2023	1:00:00	5.95
CalibratedInflow	9/25/2023	1:15:00	5.88
CalibratedInflow	9/25/2023	1:30:00	5.82
CalibratedInflow	9/25/2023	1:45:00	5.76
CalibratedInflow	9/25/2023	2:00:00	5.7

CalibratedInflow	9/25/2023	2:15:00	5.63
CalibratedInflow	9/25/2023	2:30:00	5.57
CalibratedInflow	9/25/2023	2:45:00	5.51
CalibratedInflow	9/25/2023	3:00:00	5.46
CalibratedInflow	9/25/2023	3:15:00	5.4
CalibratedInflow	9/25/2023	3:30:00	5.34
CalibratedInflow	9/25/2023	3:45:00	5.28
CalibratedInflow	9/25/2023	4:00:00	5.23
CalibratedInflow	9/25/2023	4:15:00	5.17
CalibratedInflow	9/25/2023	4:30:00	5.12
CalibratedInflow	9/25/2023	4:45:00	5.07
CalibratedInflow	9/25/2023	5:00:00	5.01
CalibratedInflow	9/25/2023	5:15:00	4.96
CalibratedInflow	9/25/2023	5:30:00	4.91
CalibratedInflow	9/25/2023	5:45:00	4.86
CalibratedInflow	9/25/2023	6:00:00	4.81
CalibratedInflow	9/25/2023	6:15:00	4.76
CalibratedInflow	9/25/2023	6:30:00	4.71
CalibratedInflow	9/25/2023	6:45:00	4.66
CalibratedInflow	9/25/2023	7:00:00	4.62
CalibratedInflow	9/25/2023	7:15:00	4.57
CalibratedInflow	9/25/2023	7:30:00	4.52
CalibratedInflow	9/25/2023	7:45:00	4.48
CalibratedInflow	9/25/2023	8:00:00	4.43
CalibratedInflow	9/25/2023	8:15:00	4.39
CalibratedInflow	9/25/2023	8:30:00	4.34
CalibratedInflow	9/25/2023	8:45:00	4.3
CalibratedInflow	9/25/2023	9:00:00	4.26
CalibratedInflow	9/25/2023	9:15:00	4.22
CalibratedInflow	9/25/2023	9:30:00	4.17
CalibratedInflow	9/25/2023	9:45:00	4.13
CalibratedInflow	9/25/2023	10:00:00	4.09
CalibratedInflow	9/25/2023	10:15:00	4.05
CalibratedInflow	9/25/2023	10:30:00	4.01
CalibratedInflow	9/25/2023	10:45:00	3.98
CalibratedInflow	9/25/2023	11:00:00	3.94
CalibratedInflow	9/25/2023	11:15:00	3.9
CalibratedInflow	9/25/2023	11:30:00	3.86
CalibratedInflow	9/25/2023	11:45:00	3.82
CalibratedInflow	9/25/2023	12:00:00	3.79
CalibratedInflow	9/25/2023	12:15:00	3.75
CalibratedInflow	9/25/2023	12:30:00	3.72
CalibratedInflow	9/25/2023	12:45:00	3.68
CalibratedInflow	9/25/2023	13:00:00	3.65
CalibratedInflow	9/25/2023	13:15:00	3.61
CalibratedInflow	9/25/2023	13:30:00	3.58
CalibratedInflow	9/25/2023	13:45:00	3.54
CalibratedInflow	9/25/2023	14:00:00	3.51
CalibratedInflow	9/25/2023	14:15:00	3.48
CalibratedInflow	9/25/2023	14:30:00	3.44
CalibratedInflow	9/25/2023	14:45:00	3.41
CalibratedInflow	9/25/2023	15:00:00	3.38
CalibratedInflow	9/25/2023	15:15:00	3.35
CalibratedInflow	9/25/2023	15:30:00	3.32
CalibratedInflow	9/25/2023	15:45:00	3.29
CalibratedInflow	9/25/2023	16:00:00	3.26

CalibratedInflow 9/25/2023 16:15:00 3.23  
 CalibratedInflow 9/25/2023 16:30:00 3.2  
 CalibratedInflow 9/25/2023 16:45:00 3.17  
 CalibratedInflow 9/25/2023 17:00:00 3.14  
 CalibratedInflow 9/25/2023 17:15:00 3.12  
 CalibratedInflow 9/25/2023 17:30:00 3.09  
 CalibratedInflow 9/25/2023 17:45:00 3.06  
 CalibratedInflow 9/25/2023 18:00:00 3.03  
 CalibratedInflow 9/25/2023 18:15:00 3.01  
 CalibratedInflow 9/25/2023 18:30:00 2.98  
 CalibratedInflow 9/25/2023 18:45:00 2.95  
 CalibratedInflow 9/25/2023 19:00:00 2.93  
 CalibratedInflow 9/25/2023 19:15:00 2.9  
 CalibratedInflow 9/25/2023 19:30:00 2.88  
 CalibratedInflow 9/25/2023 19:45:00 2.85  
 CalibratedInflow 9/25/2023 20:00:00 2.83  
 CalibratedInflow 9/25/2023 20:15:00 2.81  
 CalibratedInflow 9/25/2023 20:30:00 2.78  
 CalibratedInflow 9/25/2023 20:45:00 2.76  
 CalibratedInflow 9/25/2023 21:00:00 2.73  
 CalibratedInflow 9/25/2023 21:15:00 2.71  
 CalibratedInflow 9/25/2023 21:30:00 2.69  
 CalibratedInflow 9/25/2023 21:45:00 2.67  
 CalibratedInflow 9/25/2023 22:00:00 2.65  
 CalibratedInflow 9/25/2023 22:15:00 2.62  
 CalibratedInflow 9/25/2023 22:30:00 2.6  
 CalibratedInflow 9/25/2023 22:45:00 2.58  
 CalibratedInflow 9/25/2023 23:00:00 2.56  
 CalibratedInflow 9/25/2023 23:15:00 2.54  
 CalibratedInflow 9/25/2023 23:30:00 2.52  
 CalibratedInflow 9/25/2023 23:45:00 2.5

[REPORT]

;;Reporting Options  
 SUBCATCHMENTS ALL  
 NODES ALL  
 LINKS ALL

[TAGS]

[MAP]

DIMENSIONS -5670.920 0.000 10000.000 10000.000  
 Units None

[COORDINATES]

;;Node	X-Coord	Y-Coord
1	-1242.604	6824.458
2	1522.956	6268.156
4	5836.239	5597.765
5	6824.458	4615.385
6	4082.840	4970.414
8	-3292.686	7027.933
9	-4968.664	7128.492
10	-4421.178	6837.989
7	9076.463	4860.335

HartleyPond 3136.095 5128.205

[VERTICES]

;;Link	X-Coord	Y-Coord
RerouteXS3200	3431.953	5877.712
RerouteXS3200	3431.953	5877.712
RerouteXS3200	3431.953	5877.712
HartleyDam	3981.057	4435.754

[Polygons]

;;Storage Node	X-Coord	Y-Coord

## Alternative 2 - Stream Route Around SWMM Model Output:

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.2)

\*\*\*\*\*

### Analysis Options

\*\*\*\*\*

Flow Units ..... CFS  
 Process Models:  
 Rainfall/Runoff ..... NO  
 RDII ..... NO  
 Snowmelt ..... NO  
 Groundwater ..... NO  
 Flow Routing ..... YES  
 Ponding Allowed ..... NO  
 Water Quality ..... NO  
 Flow Routing Method ..... DYNWAVE  
 Surcharge Method ..... EXTRAN  
 Starting Date ..... 09/22/2023 00:00:00  
 Ending Date ..... 09/25/2023 23:00:00  
 Antecedent Dry Days ..... 0.0  
 Report Time Step ..... 00:15:00  
 Routing Time Step ..... 30.00 sec  
 Variable Time Step ..... YES  
 Maximum Trials ..... 8  
 Number of Threads ..... 1  
 Head Tolerance ..... 0.005000 ft

\*\*\*\*\*

Flow Routing Continuity	acre-feet	Volume 10 <sup>6</sup> gal
Dry Weather Inflow .....	0.000	0.000
Wet Weather Inflow .....	0.000	0.000
Groundwater Inflow .....	0.000	0.000
RDII Inflow .....	0.000	0.000
External Inflow .....	765.502	249.450
External Outflow .....	761.035	247.995
Flooding Loss .....	0.000	0.000
Evaporation Loss .....	0.000	0.000
Exfiltration Loss .....	0.000	0.000

Initial Stored Volume .... 106.670 34.760  
 Final Stored Volume ..... 126.688 41.283  
 Continuity Error (%) ..... -1.783

\*\*\*\*\*

Highest Continuity Errors

\*\*\*\*\*

Node 10 (1.60%)

\*\*\*\*\*

Time-Step Critical Elements

\*\*\*\*\*

Link Stand\_pipe (58.66%)

Link Reroute\_XS500 (1.45%)

\*\*\*\*\*

Highest Flow Instability Indexes

\*\*\*\*\*

Link ExistingChannel\_Downstream (1)

\*\*\*\*\*

Most Frequent Nonconverging Nodes

\*\*\*\*\*

Convergence obtained at all time steps.

\*\*\*\*\*

Routing Time Step Summary

\*\*\*\*\*

Minimum Time Step : 6.77 sec  
 Average Time Step : 19.25 sec  
 Maximum Time Step : 30.00 sec  
 % of Time in Steady State : 0.00  
 Average Iterations per Step : 2.00  
 % of Steps Not Converging : 0.00  
 Time Step Frequencies :  
 30.000 - 13.228 sec : 56.96 %  
 13.228 - 5.833 sec : 43.04 %  
 5.833 - 2.572 sec : 0.00 %  
 2.572 - 1.134 sec : 0.00 %  
 1.134 - 0.500 sec : 0.00 %

\*\*\*\*\*

Node Depth Summary

\*\*\*\*\*

-----  
 Average Maximum Maximum Time of Max Reported  
 Depth Depth HGL Occurrence Max Depth  
 Node Type Feet Feet Feet days hr:min Feet  
 -----



1	JUNCTION	3.04	6.87	1207.28	0	13:22	6.85
2	JUNCTION	1.37	3.62	1201.19	0	13:29	3.62
4	JUNCTION	1.83	4.99	1196.99	0	13:32	4.99
5	JUNCTION	2.92	5.92	1194.39	0	13:48	5.92
6	JUNCTION	0.85	2.51	1194.51	0	14:51	2.51
8	JUNCTION	1.99	5.21	1209.27	0	13:16	5.20
9	JUNCTION	1.48	3.87	1213.85	0	13:15	3.87
10	JUNCTION	0.73	1.57	1211.07	0	13:23	1.56
7	OUTFALL	1.23	3.28	1189.98	0	13:48	3.28
HartleyPond	STORAGE	8.61	9.76	1200.76	0	14:58	9.76

\*\*\*\*\*

Node Inflow Summary

\*\*\*\*\*

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Maximum Time of Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.00	703.75	0 13:16	0	179	0.017
2	JUNCTION	0.00	691.48	0 13:24	0	179	0.039
4	JUNCTION	0.00	687.94	0 13:29	0	179	-0.010
5	JUNCTION	0.00	807.76	0 13:44	0	248	0.036
6	JUNCTION	0.00	155.35	0 14:58	0	51.2	0.003
8	JUNCTION	0.00	707.73	0 13:15	0	179	0.005
9	JUNCTION	1221.48	1221.48	0 13:15	249	249	-0.007
10	JUNCTION	0.00	513.39	0 13:15	0	70.5	1.624
7	OUTFALL	0.00	806.63	0 13:48	0	248	0.000
HartleyPond	STORAGE	0.00	492.93	0 13:23	0	76.5	0.157

\*\*\*\*\*

Node Surcharge Summary

\*\*\*\*\*

No nodes were surcharged.

\*\*\*\*\*

Node Flooding Summary

\*\*\*\*\*

No nodes were flooded.

\*\*\*\*\*

Storage Volume Summary

\*\*\*\*\*

Storage Unit	Average Volume 1000 ft³	Avg Pent Full	Evap Pent Loss	Exfil Pent Loss	Maximum Volume 1000 ft³	Max Pent Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
--------------	-------------------------	---------------	----------------	-----------------	-------------------------	---------------	------------------------------------	---------------------

-----  
HartleyPond      1217.554 18.6 0.0 0.0 1744.089 26.6 0 14:58 239.35

\*\*\*\*\*

Outfall Loading Summary

\*\*\*\*\*

Outfall Node	Flow Freq	Avg Flow Pcnt	Max Flow CFS	Total Volume CFS	10 <sup>6</sup> gal
7	95.18	211.20	806.63	247.976	
System	95.18	211.20	806.63	247.976	

\*\*\*\*\*

Link Flow Summary

\*\*\*\*\*

Link	Type	Maximum  Flow  CFS	Time of Occurrence days hr:min	Max  Veloc  ft/sec	Maximum Full Flow	Max/ Full Depth	Max/ Full
RerouteXS1533	CHANNEL	691.48	0 13:24	2.12	0.04	0.24	
RerouteXS3200	CHANNEL	687.94	0 13:29	2.81	0.02	0.17	
RerouteXS3700	CHANNEL	687.10	0 13:32	2.67	0.37	0.72	
Stand_pipe	CONDUIT	155.36	0 14:58	9.83	0.35	0.75	
ExistingChannel_Downstream	CHANNEL	806.63	0 13:48	2.59	0.03	0.22	
RerouteXS820	CHANNEL	703.75	0 13:16	2.35	0.02	0.24	
Reroute_XS500	CHANNEL	707.73	0 13:15	3.45	0.02	0.23	
Floodplain_to_Pond	CHANNEL	492.93	0 13:23	0.16	0.01	0.39	
Reroute/Floodplain_Split	WEIR	513.39	0 13:15			0.35	
Standpipe_Inlet	WEIR	155.35	0 14:58			0.20	
HartleyDam	WEIR	84.00	0 14:58			0.16	

\*\*\*\*\*

Flow Classification Summary

\*\*\*\*\*

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class							
		Up Dry	Down Dry	Sub Dry	Sup Crit	Up Crit	Down Crit	Norm Crit	Inlet Ltd Ctrl
RerouteXS1533	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.01 0.00
RerouteXS3200	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.93 0.00
RerouteXS3700	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.92 0.00
Stand_pipe	1.00	0.07	0.06	0.00	0.87	0.00	0.00	0.00	0.82 0.00
ExistingChannel_Downstream	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.00 0.00
RerouteXS820	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.94 0.00
Reroute_XS500	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.96 0.00

Floodplain\_to\_Pond 1.00 0.00 0.13 0.00 0.87 0.00 0.00 0.00 0.87 0.00

\*\*\*\*\*

Conduit Surcharge Summary

\*\*\*\*\*

	Hours		Hours		Capacity	
Conduit	----- Hours Full	-----	Above Full	Normal Flow	Limited	
	Both Ends	Upstream	Dnstream			
Stand_pipe	0.01	0.01	9.61	0.01	0.01	

Analysis begun on: Mon Feb 12 08:34:41 2024

Analysis ended on: Mon Feb 12 08:34:41 2024

Total elapsed time: < 1 sec

# Alternative 3 - Dam Removal SWMM Model Input:

[TITLE]

::Project Title/Notes

[OPTIONS]

::Option Value

FLOW\_UNITS CFS  
INFILTRATION HORTON  
FLOW\_ROUTING DYNWAVE  
LINK\_OFFSETS DEPTH  
MIN\_SLOPE 0  
ALLOW\_PONDING NO  
SKIP\_STEADY\_STATE NO

START\_DATE 09/22/2023  
START\_TIME 00:00:00  
REPORT\_START\_DATE 09/22/2023  
REPORT\_START\_TIME 00:00:00  
END\_DATE 09/25/2023  
END\_TIME 23:45:00  
SWEEP\_START 01/01  
SWEEP\_END 12/31  
DRY\_DAYS 0  
REPORT\_STEP 00:15:00  
WET\_STEP 00:05:00  
DRY\_STEP 01:00:00  
ROUTING\_STEP 0:00:30  
RULE\_STEP 00:00:00

INERTIAL\_DAMPING PARTIAL  
NORMAL\_FLOW\_LIMITED BOTH  
FORCE\_MAIN\_EQUATION H-W  
VARIABLE\_STEP 0.75  
LENGTHENING\_STEP 0  
MIN\_SURFAREA 12.566  
MAX\_TRIALS 8  
HEAD\_TOLERANCE 0.005  
SYS\_FLOW\_TOL 5  
LAT\_FLOW\_TOL 5  
MINIMUM\_STEP 0.5  
THREADS 1

[EVAPORATION]

::Data Source Parameters

::-----

CONSTANT 0.0  
DRY\_ONLY NO

[JUNCTIONS]

::Name Elevation MaxDepth InitDepth SurDepth Aponded

::-----

5	1191	0	0	0	0
11	1196	0	0	0	0

[OUTFALLS]

::Name Elevation Type Stage Data Gated Route To

;;-----  
7 1186.7 FREE NO

[CONDUITS]

;;Name	From Node	To Node	Length	Roughness	InOffset	OutOffset	InitFlow	MaxFlow
ExistingChannel_Downstream	5	7	787	0.06	0	0	0	0
NewFloodplainChannel	11	5	1740	0.06	0	0	0	0

[XSECTIONS]

;;Link	Shape	Geom1	Geom2	Geom3	Geom4	Barrels	Culvert
ExistingChannel_Downstream	IRREGULAR	OriginalChannel					
NewFloodplainChannel	IRREGULAR	NewStreamSection					

[TRANSECTS]

;;Transect Data in HEC-2 format  
;  
NC 0.11 0.11 0.06  
X1 Station3700 107 125.40 141.43 0.0 0.0 0.0 0 0.0  
GR 1195.6 0 1195.59 4.265091864 1195.95 7.545931759 1195.88 9.186351706 1195.78 11.15485564  
GR 1195.87 12.4671916 1196.01 14.43569554 1195.95 16.07611549 1195.86 17.71653543 1195.82 19.35695538  
GR 1195.83 20.99737533 1195.79 22.30971129 1195.72 24.27821522 1195.62 25.91863517 1195.56 27.55905512  
GR 1195.54 29.19947507 1195.52 29.85564304 1195.44 30.51181102 1195.42 30.83989501 1195.4 31.167979  
GR 1195.34 32.48031496 1195.21 34.12073491 1195.14 35.76115486 1195.03 37.72965879 1194.95 39.37007874  
GR 1194.84 41.01049869 1194.75 42.65091864 1194.61 44.29133858 1194.53 45.93175853 1194.16 50.85301837  
GR 1193.9 53.47769029 1193.72 55.44619423 1193.69 55.77427822 1193.62 57.08661417 1193.42 59.05511811  
GR 1193.29 62.66404199 1193.15 64.30446194 1193.05 65.94488189 1193.03 66.27296588 1192.97 66.92913386  
GR 1192.95 67.58530184 1192.94 68.56955381 1192.94 69.22572178 1192.86 71.19422572 1192.78 72.50656168  
GR 1192.84 74.14698163 1192.85 74.14698163 1192.86 75.45931759 1192.86 75.78740157 1192.75 77.42782152  
GR 1192.74 78.41207349 1192.75 79.06824147 1192.64 80.70866142 1192.59 82.34908136 1192.43 83.98950131  
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GR 1193.85 36.5 1193.84 36.5 1193.46 37.3 1193.17 38.2 1193 38.5  
GR 1193 38.6 1193.02 38.6 1193.12 39.1 1193.12 39.2 1193.09 40.1  
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GR 1190.06 69 1190.22 69.3 1190.34 69.4 1190.49 69.9 1190.58 70.5  
GR 1190.57 70.7 1190.54 70.9 1190.53 71 1190.53 71.1 1190.51 71.3



GR 1190.51	71.5	1190.51	71.6	1190.61	72.1	1190.61	72.6	1190.61	72.7
GR 1190.63	73.2	1190.66	73.4	1190.69	73.6	1190.7	73.6	1190.64	74.1
GR 1190.63	74.4	1190.62	74.6	1190.63	75.1	1190.7	76	1190.7	76.2
GR 1190.63	76.7	1190.67	76.9	1190.79	77.1	1190.81	77.2	1190.85	77.7
GR 1190.85	77.8	1190.84	78.1	1190.84	78.3	1190.91	78.5	1190.96	78.8
GR 1191	78.9	1191.02	79.2	1191.03	79.3	1191.02	79.3	1190.99	79.5
GR 1190.97	79.7	1190.96	79.8	1190.95	79.9	1190.9	81.4	1190.87	81.5
GR 1190.8	82.4	1190.84	82.9	1190.98	83.4	1190.99	83.4	1191	83.4
GR 1191.06	83.9	1191.07	83.9	1191.27	84.4	1191.32	84.7	1191.35	85
GR 1191.36	85.1	1191.35	85.6	1191.36	85.9	1191.36	86	1191.44	86.7
GR 1191.44	87.6	1191.45	87.7	1191.48	88	1191.49	88.6	1191.61	89.2
GR 1191.62	89.6	1191.63	89.6	1191.62	89.7	1191.61	90	1191.61	90.1
GR 1191.62	90.3	1191.64	90.4	1191.65	90.6	1191.61	90.9	1191.6	90.9
GR 1191.57	91.1	1191.58	91.3	1191.6	91.8	1191.67	92.1	1191.69	92.2
GR 1191.79	92.5	1191.85	92.7	1191.9	92.9	1191.92	93	1191.96	93.2
GR 1191.97	93.3	1191.97	93.7	1191.97	93.8	1192.02	94.8	1191.99	95.4
GR 1191.88	95.8	1191.88	96.5	1191.91	96.8	1191.85	98.3	1191.85	98.4
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GR 1191.81	100.3	1191.83	101.2	1191.84	101.3	1191.85	101.5	1191.86	101.6
GR 1191.94	102	1191.81	102.5	1191.86	103	1191.85	103.6	1191.88	104
GR 1191.88	104.1	1191.9	105.1	1192	105.6	1192.05	105.7	1192.28	106.1
GR 1192.48	106.8	1192.5	106.9	1192.69	107.3	1192.91	107.7	1193.1	108.2
GR 1193.17	108.6	1193.21	108.7	1193.28	109	1193.31	109.2	1193.34	109.4
GR 1193.38	109.6	1193.41	109.7	1193.44	109.8	1193.56	110.1	1193.64	110.6
GR 1193.66	110.7	1193.66	110.9	1193.67	111.3	1193.67	111.4	1193.66	111.6
GR 1193.66	111.8	1193.66	111.9	1193.66	112.2	1193.57	112.7	1193.51	113
GR 1193.43	113.3	1193.41	113.5	1193.38	113.7	1193.36	113.8	1193.35	113.9
GR 1193.32	114.2	1193.29	114.7	1193.27	114.9	1193.26	115.1	1193.26	115.2
GR 1193.29	115.6	1193.36	115.8	1193.4	115.9	1193.46	116	1193.67	116.3
GR 1193.78	116.4	1193.82	116.5	1194.24	116.9	1194.39	117.2	1194.58	117.6
GR 1194.67	117.8	1194.72	118	1194.74	118	1194.96	118.5	1195.53	119.5
GR 1195.66	119.9	1195.7	120	1195.72	120.1	1195.81	120.4	1195.87	120.5
GR 1195.88	120.6	1195.93	120.9	1195.89	121.3	1195.86	121.6	1195.85	121.7
GR 1195.84	122.1	1196.18	123.1	1196.28	123.6	1196.27	123.8	1196.25	124.1
GR 1196.21	124.4	1196.2	124.7	1196.32	125	1196.37	125.4	1196.38	125.4
GR 1196.41	125.7	1196.47	125.9	1196.59	126.1	1196.62	126.2	1196.65	126.3
GR 1196.91	126.7	1196.94	126.7	1196.97	126.8	1197.15	127.2	1197.24	127.5
GR 1197.33	127.8	1197.41	127.9	1197.54	128.3	1197.57	128.3	1197.67	128.5
GR 1197.77	128.7	1197.8	128.8	1197.83	128.9	1197.92	129.2	1198.15	129.6
GR 1198.31	129.8	1198.96	131.4	1199.11	131.6	1199.12	131.6	1199.27	131.9
GR 1199.66	132.3	1199.73	132.4	1200.06	132.9	1200.09	133	1200.22	133.4
GR 1200.24	133.7	1200.26	134	1200.31	134.1	1200.45	134.4	1200.49	134.5
GR 1200.54	134.7	1200.63	134.9	1200.73	135.1	1200.94	135.5	1201.05	135.7
GR 1201.06	135.8	1201.15	136	1201.19	136.2	1201.29	136.5	1201.32	136.6
GR 1201.34	136.7	1201.4	137	1201.47	137.2	1201.59	137.4	1202.05	138.5
GR 1202.06	138.6	1202.08	138.6	1202.15	138.7	1202.32	139	1202.37	139.1
GR 1202.44	139.2	1202.57	139.4	1202.68	139.6	1202.82	139.9	1202.92	140.1
GR 1202.99	140.3	1203.13	140.6	1203.16	140.7	1203.2	140.8	1203.29	141.1
GR 1203.33	141.3	1203.36	141.5	1203.39	141.7	1203.46	141.9	1203.48	142
GR 1203.54	142.2	1203.57	142.3	1203.68	142.7	1203.69	142.7	1203.73	142.8
GR 1203.89	143.2	1203.96	143.4	1204.06	143.6	1204.15	143.7	1204.28	144
GR 1204.32	144.1	1204.43	144.3	1204.49	144.4	1204.64	144.7	1204.66	144.8
GR 1204.67	144.8	1204.72	144.9	1204.99	145.2	1205.04	145.3	1205.12	145.4
GR 1205.33	145.8	1205.38	146	1205.41	146.1	1205.46	146.3	1205.49	146.4
GR 1205.69	146.8	1205.69	146.9	1205.68	147.4	1205.83	148.4	1205.86	148.5
GR 1205.99	148.9	1206	148.9	1206.02	149	1206.18	149.3	1206.23	149.4

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XI Station500 19 74.25 90.25 0.0 0.0 0.0 0.0 0.0  
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XI Station820 468 548.18 564.2 0.0 0.0 0.0 0.0 0.0  
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GR 1219.23	8.1	1219.04	9.8	1219.06	10.9	1218.5	12.7	1218.4	14.4
GR 1217.9	16.1	1217.9	17.9	1217.43	20.1	1217.39	21.2	1216.73	23.7
GR 1216.57	26	1215.98	29.8	1215.25	31.5	1214.73	33.7	1214.47	35.5
GR 1213.59	37.7	1213.05	41.7	1212.62	42.9	1212.76	44.6	1212.25	46.5
GR 1212.15	49.2	1211.94	50.3	1211.9	51.4	1211.55	52.6	1211.63	54.3
GR 1211.16	56	1211.02	57.3	1210.22	60.7	1209.56	62.3	1209.93	63.4
GR 1209.63	63.9	1209.22	66.1	1209.29	66.9	1209.15	67.4	1208.8	67.9
GR 1208.52	69.1	1208.54	70.2	1208.31	70.9	1208.43	72.4	1208.16	75.3
GR 1208.17	77.9	1207.69	79.9	1207.59	80.9	1207.74	82	1207.51	82.8
GR 1206.89	83.9	1206.74	84.5	1206.72	85.6	1206.52	86.2	1206.47	87.5
GR 1205.6	89.6	1205.56	91.3	1205.66	91.9	1205.56	93	1205.11	94.7
GR 1204.86	99.2	1204.98	99.9	1204.58	101	1204.66	102.4	1204.5	103.3
GR 1204.42	106.3	1204.1	107.8	1204.48	109	1204	110.7	1204.28	111.8
GR 1203.84	113.5	1203.96	115.3	1203.77	116.4	1203.74	118.1	1203.43	119.2
GR 1203.42	122.2	1202.76	124.4	1203.24	126.3	1202.91	127.8	1202.79	129.5
GR 1202.84	131.7	1202.65	132.9	1202.66	134.7	1202.84	136.5	1202.45	138
GR 1202.4	139.1	1202.56	139.8	1202.5	140.9	1202.59	142	1202.51	143.1
GR 1202.57	145.5	1202.38	147.2	1202.65	149.3	1202.97	150.6	1202.89	153.1
GR 1203	154.6	1204.08	157.4	1203.92	158.6	1204.09	159.7	1203.98	160.4
GR 1203.99	161.4	1203.68	163.7	1203.77	165.4	1203.66	166	1203.4	166.5
GR 1203.62	168.9	1203.52	170.5	1203.72	171.5	1203.75	173.4	1203.55	175.7
GR 1203.17	177.3	1203.17	178.4	1202.9	179.6	1202.51	180.2	1202.63	181.4
GR 1202.42	182.4	1202.51	183.3	1202.47	185.1	1202.38	185.9	1201.79	187.6
GR 1201.85	189.3	1201.72	189.9	1202.18	190.6	1202.22	191	1202.09	192
GR 1202.3	192.8	1202.25	194	1202.47	195.1	1202.81	196.1	1202.74	196.7
GR 1202.4	197.3	1201.89	197.9	1201.88	198	1202.42	199.1	1202.42	199.6
GR 1202.12	200.7	1202.79	203.9	1202.8	204.2	1202.7	204.5	1202.65	204.6
GR 1202.62	204.7	1202.9	205.9	1202.77	207	1202.91	208.7	1202.69	209.3
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GR 1203.16	214.9	1202.96	215.7	1203.03	216.1	1203.14	216.3	1203.18	216.4
GR 1203.46	217	1203.48	217.3	1203.41	217.8	1203.62	218.6	1203.5	219.5
GR 1203.55	219.7	1203.62	220.1	1203.59	221.2	1203.44	224.1	1202.64	225.6
GR 1202.55	225.8	1202.47	226.4	1203.14	227.6	1203.54	229.7	1203.31	234.1
GR 1203.26	234.5	1203.14	234.9	1203.25	236.6	1203.03	237.8	1203.04	237.8
GR 1203.14	238.3	1203.15	238.9	1203.16	239	1203.11	240.1	1203.08	240.2
GR 1203.06	240.4	1203.03	240.6	1203.01	240.7	1202.95	241.2	1203.08	242
GR 1202.38	243.7	1202.46	244	1202.47	244	1202.56	244.4	1202.92	245.1
GR 1203.35	247	1203.16	249.2	1203.2	249.6	1203.37	250.3	1203.23	250.7
GR 1203.13	251.4	1203.44	252.9	1203.47	253.2	1203.48	253.3	1203.49	253.6
GR 1203.53	254.3	1203.51	254.4	1203.51	254.5	1203.39	254.9	1203.2	255.1
GR 1203.02	255.4	1202.81	256.6	1203.5	257.6	1203.52	257.7	1203.54	257.7
GR 1203.59	258.1	1203.62	258.3	1203.29	259.9	1202.63	261.7	1203.16	263.6
GR 1203.47	266.8	1203.22	268	1202.82	268.7	1202.71	269.5	1202.78	270.6
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GR 1202.73	277.1	1203.15	278.3	1203.14	281.1	1203.81	283.9	1203.56	285.1
GR 1203.44	286.2	1203.67	287.4	1203.25	288.6	1203.05	290.2	1203.03	291.2
GR 1202.8	291.9	1202.8	292	1202.81	292	1203.06	293	1203.06	293.1
GR 1203.04	293.4	1203.03	293.6	1202.97	294.1	1203.14	295.3	1203.3	298.2
GR 1203.2	298.6	1203.19	299.7	1203.34	300.5	1203.35	300.6	1203.38	300.8
GR 1203.39	301	1203.02	302.2	1203.36	304.5	1203.34	304.8	1203.29	305.2
GR 1203.14	305.6	1203.13	305.6	1203.51	307.4	1203.27	310.1	1203.43	311.1
GR 1203.5	311.3	1203.72	311.8	1203.79	312.4	1203.62	313.9	1203.62	314.1
GR 1203.64	314.4	1203.66	314.7	1203.73	315.3	1203.88	315.7	1203.97	315.8
GR 1203.66	317	1203.81	318.1	1203.69	319.2	1203.9	322.1	1203.72	325.8
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GR 1199.79 746.063016 1199.8 746.3911 1199.83 747.047268 1199.91 747.703436 1199.92 747.703436  
GR 1200.02 748.687688 1200.08 749.343856 1200.18 750.328108 1200.16 751.968528 1199.98 755.249368  
GR 1200.02 755.577452 1200.23 756.889788 1200.2 757.217872 1200.19 757.87404 1200.16 758.530208  
GR 1200.06 759.51446 1199.97 760.170628 1199.96 760.826796 1199.96 761.811048 1199.98 763.123384  
GR 1200.1 766.07614 1200.12 766.732308 1200.11 767.060392 1200.03 768.044644 1200.01 768.700812  
GR 1199.98 769.685064 1199.97 770.013148 1200.02 770.669316 1200.1 771.653568 1200.11 772.63782  
GR 1200.13 773.293988 1200.03 776.574828 1200.02 776.574828 1200.02 776.902912 1200.06 778.543332  
GR 1199.96 781.824172 1200.01 783.464592 1200.16 786.745432 1200.16 787.073516 1200.17 788.385852  
GR 1200.19 789.698188 1200.19 790.026272 1200.2 790.026272 1200.31 791.666692 1200.32 791.666692  
GR 1200.33 791.666692 1200.52 792.979028 1200.55 793.307112 1200.45 796.587952 1200.41 798.228372  
GR 1200.43 798.88454 1200.44 799.540708 1200.45 799.868792 1200.45 800.196876 1200.46 801.837296  
GR 1200.44 803.149632 1200.56 804.790052 1200.57 804.790052 1200.6 807.742808 1200.61 808.070892  
GR 1200.87 811.023648 1200.92 811.351732 1200.91 814.632572 1200.91 814.960656 1200.92 814.960656  
GR 1200.96 815.616824 1201.02 816.272992 1201.04 816.601076 1201.1 817.913412 1201.12 818.241496  
GR 1201.15 818.56958 1201.2 819.225748 1201.25 820.866168 1201.26 822.178504 1201.27 823.162756  
GR 1201.28 823.49084 1201.3 824.147008 1201.3 824.803176 1201.35 826.115512 1201.36 826.443596  
GR 1201.34 828.084016 1201.35 828.084016 1201.46 829.396352 1201.46 829.724436 1201.55 831.364856  
GR 1201.56 832.021024 1201.57 832.349108 1201.59 833.005276 1201.62 833.661444 1201.63 833.989528  
GR 1201.66 834.645696 1201.7 835.301864 1201.83 836.942284 1201.88 837.598452 1201.91 837.926536  
GR 1201.97 841.53546 1202.04 842.519712 1202.06 842.847796 1202.1 843.503964 1202.17 844.160132  
GR 1202.23 844.488216 1202.29 845.144384 1202.31 845.472468 1202.37 846.128636 1202.42 847.112888  
GR 1202.43 847.112888 1202.47 847.769056 1202.48 848.425224 1202.5 849.081392 1202.51 849.409476  
GR 1202.5 851.37798 1202.56 852.690316 1202.56 853.0184 1203.33 861.2205 1203.34 861.548584  
GR 1203.37 864.50134 1203.59 867.78218 1203.61 868.110264 1203.63 868.766432 1203.66 869.4226  
GR 1203.7 870.078768 1203.71 870.406852 1204.16 876.312364 1204.29 877.296616 1204.35 879.26512  
GR 1204.4 879.593204 1204.54 880.90554 1204.72 882.54596 1204.78 883.530212 1204.85 884.18638  
GR 1204.9 885.498716 1204.95 886.482968 1205.08 887.46722 1205.09 887.795304 1205.17 889.10764  
GR 1205.3 892.38848 1205.32 892.716564 1205.37 893.044648 1205.44 893.700816 1205.57 895.013152  
GR 1205.65 895.997404 1205.79 899.278244 1205.78 899.606328 1205.71 900.59058 1205.71 900.918664  
GR 1205.84 902.559084 1205.85 902.559084 1205.97 903.87142 1205.99 904.199504 1206.37 906.496092  
GR 1206.39 906.824176 1206.64 910.105016 1206.69 910.761184 1206.71 911.089268 1206.78 912.401604  
GR 1206.69 915.682444 1206.68 915.682444 1206.61 916.99478 1206.6 917.322864 1206.62 919.619452  
GR 1206.81 922.900292 1206.9 923.55646 1206.98 924.212628 1207.14 925.524964 1207.49 927.165384  
GR 1207.5 927.493468 1207.51 927.493468 1207.61 929.133888 1207.65 930.11814 1207.68 930.774308  
GR 1207.73 931.102392 1207.76 931.75856 1207.81 932.414728 1208.67 937.335988 1208.66 937.664072  
GR 1208.59 938.976408 1208.59 939.304492 1208.57 940.288744 1208.58 940.616828 1208.67 942.585332  
GR 1208.73 943.897668 1209.74 948.818928 1209.8 949.147012 1209.97 950.459348 1210.01 950.459348  
GR 1210.01 950.787432 1210.07 951.771684 1210.09 952.099768 1210.1 952.099768 1210.24 953.412104  
GR 1210.28 953.740188 1210.32 954.068272 1210.4 955.052524 1210.47 955.380608 1210.49 956.036776  
GR 1210.49 956.36486 1210.52 957.021028 1210.5 958.00528 1210.47 958.661448 1210.48 959.317616  
GR 1210.49 959.973784 1210.5 960.301868 1210.52 960.958036 1210.54 961.942288 1210.55 961.942288  
GR 1210.57 962.270372 1210.68 963.910792 1210.69 963.910792 1210.73 964.238876 1210.86 965.223128  
GR 1210.88 965.551212 1210.91 965.551212 1211.08 966.863548 1211.13 967.191632 1211.21 967.519716  
GR 1211.35 968.175884 1211.43 968.832052 1211.52 969.48822 1211.53 969.48822 1211.62 970.472472  
GR 1211.6 971.12864 1211.6 971.456724 1211.58 972.112892 1211.63 972.440976 1211.68 973.097144  
GR 1211.72 973.753312 1211.77 974.081396 1211.97 975.393732 1211.98 975.393732 1212.05 976.377984  
GR 1212.09 977.034152 1212.18 978.674572 1212.22 979.986908 1212.24 980.314992 1212.29 980.97116  
GR 1212.33 981.299244 1212.38 981.955412 1212.47 982.61158 1212.48 982.939664 1212.58 983.595832  
GR 1212.66 984.252 1212.74 984.580084 1212.88 985.564336 1213.03 986.548588 1213.07 986.876672  
GR 1213.08 987.204756 1213.09 988.517092 1213.1 988.845176 1213.14 990.157512 1213.16 990.485596

GR 1213.27 991.469848 1213.3 991.797932 1213.33 992.4541 1213.36 993.110268 1213.39 993.438352  
 GR 1213.43 994.422604 1213.44 994.422604 1213.49 995.078772 1213.56 996.063024 1213.59 996.063024  
 GR 1213.9 1000.000032 1213.91 1000.328116 1213.95 1001.312368 1213.97 1001.640452 1213.97 1001.968536  
 GR 1214.14 1003.93704 1214.19 1004.593208 1214.21 1005.249376 1214.28 1005.57746 1214.39 1006.889796  
 GR 1214.49 1007.545964 1214.6 1008.530216 1214.65 1009.186384 1214.69 1009.514468 1214.74 1010.170636  
 GR 1214.77 1010.49872 1214.85 1011.482972 1214.87 1011.811056 1215.1 1013.451476 1215.35 1014.763812  
 GR 1215.38 1015.091896 1215.42 1015.41998 1215.45 1015.483956

[INFLOWS]

;;Node	Constituent	Time Series	Type	Mfactor	Sfactor	Baseline	Pattern
11	FLOW	CalibratedInflow	FLOW	1.0	1.0		

[CURVES]

;;Name	Type	X-Value	Y-Value
Pond	Storage	1	327
Pond		2	26498
Pond		3	66828
Pond		4	87012
Pond		5	112685
Pond		6	168147
Pond		7	290866
Pond		8	397877
Pond		9	453214
Pond		16	1024684

[TIMESERIES]

;;Name	Date	Time	Value
Inflow		0:15:00	0
Inflow		0:30:00	0
Inflow		0:45:00	0
Inflow		1:00:00	0
Inflow		1:15:00	0
Inflow		1:30:00	0.01
Inflow		1:45:00	0.01
Inflow		2:00:00	0.02
Inflow		2:15:00	0.02
Inflow		2:30:00	0.03
Inflow		2:45:00	0.05
Inflow		3:00:00	0.07
Inflow		3:15:00	0.1
Inflow		3:30:00	0.13
Inflow		3:45:00	0.2
Inflow		4:00:00	0.29
Inflow		4:15:00	0.42
Inflow		4:30:00	0.02
Inflow		4:45:00	0.14
Inflow		5:00:00	0.34
Inflow		5:15:00	0.61
Inflow		5:30:00	0.97
Inflow		5:45:00	1.41
Inflow		6:00:00	1.91
Inflow		6:15:00	1.8
Inflow		6:30:00	1.72

Inflow	6:45:00	1.88
Inflow	7:00:00	2.3
Inflow	7:15:00	2.96
Inflow	7:30:00	3.82
Inflow	7:45:00	4.85
Inflow	8:00:00	5.98
Inflow	8:15:00	7.18
Inflow	8:30:00	8.49
Inflow	8:45:00	9.86
Inflow	9:00:00	11.19
Inflow	9:15:00	12.54
Inflow	9:30:00	14.39
Inflow	9:45:00	16.11
Inflow	10:00:00	17.79
Inflow	10:15:00	19.33
Inflow	10:30:00	21.01
Inflow	10:45:00	22.77
Inflow	11:00:00	25.03
Inflow	11:15:00	27.52
Inflow	11:30:00	31.03
Inflow	11:45:00	35.06
Inflow	12:00:00	87.8
Inflow	12:15:00	398.07
Inflow	12:30:00	780.29
Inflow	12:45:00	886.2
Inflow	13:00:00	972.43
Inflow	13:15:00	1027.91
Inflow	13:30:00	944.23
Inflow	13:45:00	785.77
Inflow	14:00:00	634.75
Inflow	14:15:00	512.5
Inflow	14:30:00	413.91
Inflow	14:45:00	325.87
Inflow	15:00:00	237.31
Inflow	15:15:00	175.36
Inflow	15:30:00	124.72
Inflow	15:45:00	89.02
Inflow	16:00:00	65.23
Inflow	16:15:00	55.94
Inflow	16:30:00	46.93
Inflow	16:45:00	39.29
Inflow	17:00:00	33.56
Inflow	17:15:00	29.31
Inflow	17:30:00	26
Inflow	17:45:00	23.31
Inflow	18:00:00	21.12
Inflow	18:15:00	19.36
Inflow	18:30:00	18
Inflow	18:45:00	16.97
Inflow	19:00:00	16.2
Inflow	19:15:00	15.64
Inflow	19:30:00	15.23
Inflow	19:45:00	14.92
Inflow	20:00:00	14.69
Inflow	20:15:00	14.53
Inflow	20:30:00	14.26

Inflow	20:45:00	13.92
Inflow	21:00:00	13.58
Inflow	21:15:00	13.23
Inflow	21:30:00	12.85
Inflow	21:45:00	12.43
Inflow	22:00:00	12.07
Inflow	22:15:00	11.75
Inflow	22:30:00	11.44
Inflow	22:45:00	11.16
Inflow	23:00:00	10.91
Inflow	23:15:00	10.71
Inflow	23:30:00	10.54
Inflow	23:45:00	10.4

;  
;Calibrated model inflow, model calibrated using data from September 2023 storms.

CalibratedInflow	9/22/2023	0:15:00	0
CalibratedInflow	9/22/2023	0:30:00	0
CalibratedInflow	9/22/2023	0:45:00	0
CalibratedInflow	9/22/2023	1:00:00	0
CalibratedInflow	9/22/2023	1:15:00	0
CalibratedInflow	9/22/2023	1:30:00	0.01
CalibratedInflow	9/22/2023	1:45:00	0.01
CalibratedInflow	9/22/2023	2:00:00	0.02
CalibratedInflow	9/22/2023	2:15:00	0.02
CalibratedInflow	9/22/2023	2:30:00	0.03
CalibratedInflow	9/22/2023	2:45:00	0.05
CalibratedInflow	9/22/2023	3:00:00	0.07
CalibratedInflow	9/22/2023	3:15:00	0.1
CalibratedInflow	9/22/2023	3:30:00	0.14
CalibratedInflow	9/22/2023	3:45:00	0.2
CalibratedInflow	9/22/2023	4:00:00	0.29
CalibratedInflow	9/22/2023	4:15:00	0.42
CalibratedInflow	9/22/2023	4:30:00	0.02
CalibratedInflow	9/22/2023	4:45:00	0.16
CalibratedInflow	9/22/2023	5:00:00	0.38
CalibratedInflow	9/22/2023	5:15:00	0.71
CalibratedInflow	9/22/2023	5:30:00	1.13
CalibratedInflow	9/22/2023	5:45:00	1.67
CalibratedInflow	9/22/2023	6:00:00	1.87
CalibratedInflow	9/22/2023	6:15:00	1.72
CalibratedInflow	9/22/2023	6:30:00	1.89
CalibratedInflow	9/22/2023	6:45:00	2.43
CalibratedInflow	9/22/2023	7:00:00	3.33
CalibratedInflow	9/22/2023	7:15:00	4.52
CalibratedInflow	9/22/2023	7:30:00	5.94
CalibratedInflow	9/22/2023	7:45:00	7.55
CalibratedInflow	9/22/2023	8:00:00	9.31
CalibratedInflow	9/22/2023	8:15:00	11.12
CalibratedInflow	9/22/2023	8:30:00	13.47
CalibratedInflow	9/22/2023	8:45:00	16.14
CalibratedInflow	9/22/2023	9:00:00	18.36
CalibratedInflow	9/22/2023	9:15:00	20.26
CalibratedInflow	9/22/2023	9:30:00	22.18
CalibratedInflow	9/22/2023	9:45:00	24.23
CalibratedInflow	9/22/2023	10:00:00	26.49
CalibratedInflow	9/22/2023	10:15:00	28.89

CalibratedInflow	9/22/2023	10:30:00	31.69
CalibratedInflow	9/22/2023	10:45:00	34.91
CalibratedInflow	9/22/2023	11:00:00	39.1
CalibratedInflow	9/22/2023	11:15:00	43.9
CalibratedInflow	9/22/2023	11:30:00	51.11
CalibratedInflow	9/22/2023	11:45:00	62.04
CalibratedInflow	9/22/2023	12:00:00	162.07
CalibratedInflow	9/22/2023	12:15:00	504.14
CalibratedInflow	9/22/2023	12:30:00	886.21
CalibratedInflow	9/22/2023	12:45:00	1001.33
CalibratedInflow	9/22/2023	13:00:00	1139.65
CalibratedInflow	9/22/2023	13:15:00	1221.86
CalibratedInflow	9/22/2023	13:30:00	1134.09
CalibratedInflow	9/22/2023	13:45:00	1000.29
CalibratedInflow	9/22/2023	14:00:00	890.39
CalibratedInflow	9/22/2023	14:15:00	748.19
CalibratedInflow	9/22/2023	14:30:00	697.61
CalibratedInflow	9/22/2023	14:45:00	631.26
CalibratedInflow	9/22/2023	15:00:00	574.75
CalibratedInflow	9/22/2023	15:15:00	533.24
CalibratedInflow	9/22/2023	15:30:00	505.31
CalibratedInflow	9/22/2023	15:45:00	466.6
CalibratedInflow	9/22/2023	16:00:00	442.07
CalibratedInflow	9/22/2023	16:15:00	433.46
CalibratedInflow	9/22/2023	16:30:00	428.88
CalibratedInflow	9/22/2023	16:45:00	426.78
CalibratedInflow	9/22/2023	17:00:00	426.33
CalibratedInflow	9/22/2023	17:15:00	425.99
CalibratedInflow	9/22/2023	17:30:00	424.87
CalibratedInflow	9/22/2023	17:45:00	423.24
CalibratedInflow	9/22/2023	18:00:00	421.68
CalibratedInflow	9/22/2023	18:15:00	420.42
CalibratedInflow	9/22/2023	18:30:00	419.38
CalibratedInflow	9/22/2023	18:45:00	418.4
CalibratedInflow	9/22/2023	19:00:00	417.34
CalibratedInflow	9/22/2023	19:15:00	416.15
CalibratedInflow	9/22/2023	19:30:00	414.81
CalibratedInflow	9/22/2023	19:45:00	413.33
CalibratedInflow	9/22/2023	20:00:00	411.73
CalibratedInflow	9/22/2023	20:15:00	410.01
CalibratedInflow	9/22/2023	20:30:00	407.69
CalibratedInflow	9/22/2023	20:45:00	405.19
CalibratedInflow	9/22/2023	21:00:00	402.78
CalibratedInflow	9/22/2023	21:15:00	400.28
CalibratedInflow	9/22/2023	21:30:00	397.34
CalibratedInflow	9/22/2023	21:45:00	393.09
CalibratedInflow	9/22/2023	22:00:00	387.38
CalibratedInflow	9/22/2023	22:15:00	381.46
CalibratedInflow	9/22/2023	22:30:00	376.27
CalibratedInflow	9/22/2023	22:45:00	371.97
CalibratedInflow	9/22/2023	23:00:00	367.94
CalibratedInflow	9/22/2023	23:15:00	364.26
CalibratedInflow	9/22/2023	23:30:00	360.81
CalibratedInflow	9/22/2023	23:45:00	357.24
CalibratedInflow	9/23/2023	0:00:00	353.1
CalibratedInflow	9/23/2023	0:15:00	349

CalibratedInflow	9/23/2023	0:30:00	344.05
CalibratedInflow	9/23/2023	0:45:00	338.34
CalibratedInflow	9/23/2023	1:00:00	331.79
CalibratedInflow	9/23/2023	1:15:00	323.19
CalibratedInflow	9/23/2023	1:30:00	311.87
CalibratedInflow	9/23/2023	1:45:00	298.53
CalibratedInflow	9/23/2023	2:00:00	283.46
CalibratedInflow	9/23/2023	2:15:00	268.59
CalibratedInflow	9/23/2023	2:30:00	255.23
CalibratedInflow	9/23/2023	2:45:00	243.81
CalibratedInflow	9/23/2023	3:00:00	232.72
CalibratedInflow	9/23/2023	3:15:00	221.09
CalibratedInflow	9/23/2023	3:30:00	210.67
CalibratedInflow	9/23/2023	3:45:00	198.81
CalibratedInflow	9/23/2023	4:00:00	188.42
CalibratedInflow	9/23/2023	4:15:00	180.32
CalibratedInflow	9/23/2023	4:30:00	173.27
CalibratedInflow	9/23/2023	4:45:00	166.51
CalibratedInflow	9/23/2023	5:00:00	160.02
CalibratedInflow	9/23/2023	5:15:00	153.84
CalibratedInflow	9/23/2023	5:30:00	147.89
CalibratedInflow	9/23/2023	5:45:00	142.18
CalibratedInflow	9/23/2023	6:00:00	136.58
CalibratedInflow	9/23/2023	6:15:00	131.08
CalibratedInflow	9/23/2023	6:30:00	125.9
CalibratedInflow	9/23/2023	6:45:00	121.22
CalibratedInflow	9/23/2023	7:00:00	116.96
CalibratedInflow	9/23/2023	7:15:00	112.94
CalibratedInflow	9/23/2023	7:30:00	109.08
CalibratedInflow	9/23/2023	7:45:00	105.36
CalibratedInflow	9/23/2023	8:00:00	101.79
CalibratedInflow	9/23/2023	8:15:00	98.4
CalibratedInflow	9/23/2023	8:30:00	95.05
CalibratedInflow	9/23/2023	8:45:00	91.74
CalibratedInflow	9/23/2023	9:00:00	88.55
CalibratedInflow	9/23/2023	9:15:00	85.56
CalibratedInflow	9/23/2023	9:30:00	82.77
CalibratedInflow	9/23/2023	9:45:00	80.16
CalibratedInflow	9/23/2023	10:00:00	77.83
CalibratedInflow	9/23/2023	10:15:00	75.59
CalibratedInflow	9/23/2023	10:30:00	73.49
CalibratedInflow	9/23/2023	10:45:00	71.51
CalibratedInflow	9/23/2023	11:00:00	69.6
CalibratedInflow	9/23/2023	11:15:00	67.74
CalibratedInflow	9/23/2023	11:30:00	65.91
CalibratedInflow	9/23/2023	11:45:00	64.28
CalibratedInflow	9/23/2023	12:00:00	63.2
CalibratedInflow	9/23/2023	12:15:00	61.9
CalibratedInflow	9/23/2023	12:30:00	60.47
CalibratedInflow	9/23/2023	12:45:00	59.01
CalibratedInflow	9/23/2023	13:00:00	57.54
CalibratedInflow	9/23/2023	13:15:00	56.06
CalibratedInflow	9/23/2023	13:30:00	54.61
CalibratedInflow	9/23/2023	13:45:00	53.19
CalibratedInflow	9/23/2023	14:00:00	51.81
CalibratedInflow	9/23/2023	14:15:00	50.48

CalibratedInflow	9/23/2023	14:30:00	49.21
CalibratedInflow	9/23/2023	14:45:00	47.99
CalibratedInflow	9/23/2023	15:00:00	46.83
CalibratedInflow	9/23/2023	15:15:00	45.72
CalibratedInflow	9/23/2023	15:30:00	44.64
CalibratedInflow	9/23/2023	15:45:00	43.62
CalibratedInflow	9/23/2023	16:00:00	42.77
CalibratedInflow	9/23/2023	16:15:00	41.98
CalibratedInflow	9/23/2023	16:30:00	41.2
CalibratedInflow	9/23/2023	16:45:00	40.4
CalibratedInflow	9/23/2023	17:00:00	39.57
CalibratedInflow	9/23/2023	17:15:00	38.73
CalibratedInflow	9/23/2023	17:30:00	37.88
CalibratedInflow	9/23/2023	17:45:00	37.01
CalibratedInflow	9/23/2023	18:00:00	36.13
CalibratedInflow	9/23/2023	18:15:00	35.28
CalibratedInflow	9/23/2023	18:30:00	34.48
CalibratedInflow	9/23/2023	18:45:00	33.71
CalibratedInflow	9/23/2023	19:00:00	32.98
CalibratedInflow	9/23/2023	19:15:00	32.28
CalibratedInflow	9/23/2023	19:30:00	31.59
CalibratedInflow	9/23/2023	19:45:00	30.9
CalibratedInflow	9/23/2023	20:00:00	30.24
CalibratedInflow	9/23/2023	20:15:00	29.61
CalibratedInflow	9/23/2023	20:30:00	29.01
CalibratedInflow	9/23/2023	20:45:00	28.44
CalibratedInflow	9/23/2023	21:00:00	27.87
CalibratedInflow	9/23/2023	21:15:00	27.33
CalibratedInflow	9/23/2023	21:30:00	26.8
CalibratedInflow	9/23/2023	21:45:00	26.29
CalibratedInflow	9/23/2023	22:00:00	25.79
CalibratedInflow	9/23/2023	22:15:00	25.32
CalibratedInflow	9/23/2023	22:30:00	24.85
CalibratedInflow	9/23/2023	22:45:00	24.4
CalibratedInflow	9/23/2023	23:00:00	23.97
CalibratedInflow	9/23/2023	23:15:00	23.54
CalibratedInflow	9/23/2023	23:30:00	23.13
CalibratedInflow	9/23/2023	23:45:00	22.73
CalibratedInflow	9/24/2023	0:00:00	22.34
CalibratedInflow	9/24/2023	0:15:00	21.96
CalibratedInflow	9/24/2023	0:30:00	21.59
CalibratedInflow	9/24/2023	0:45:00	21.24
CalibratedInflow	9/24/2023	1:00:00	20.89
CalibratedInflow	9/24/2023	1:15:00	20.55
CalibratedInflow	9/24/2023	1:30:00	20.22
CalibratedInflow	9/24/2023	1:45:00	19.9
CalibratedInflow	9/24/2023	2:00:00	19.59
CalibratedInflow	9/24/2023	2:15:00	19.28
CalibratedInflow	9/24/2023	2:30:00	18.98
CalibratedInflow	9/24/2023	2:45:00	18.68
CalibratedInflow	9/24/2023	3:00:00	18.39
CalibratedInflow	9/24/2023	3:15:00	18.1
CalibratedInflow	9/24/2023	3:30:00	17.81
CalibratedInflow	9/24/2023	3:45:00	17.53
CalibratedInflow	9/24/2023	4:00:00	17.26
CalibratedInflow	9/24/2023	4:15:00	16.99



CalibratedInflow	9/24/2023	4:30:00	16.72
CalibratedInflow	9/24/2023	4:45:00	16.47
CalibratedInflow	9/24/2023	5:00:00	16.21
CalibratedInflow	9/24/2023	5:15:00	15.97
CalibratedInflow	9/24/2023	5:30:00	15.73
CalibratedInflow	9/24/2023	5:45:00	15.49
CalibratedInflow	9/24/2023	6:00:00	15.26
CalibratedInflow	9/24/2023	6:15:00	15.03
CalibratedInflow	9/24/2023	6:30:00	14.81
CalibratedInflow	9/24/2023	6:45:00	14.58
CalibratedInflow	9/24/2023	7:00:00	14.37
CalibratedInflow	9/24/2023	7:15:00	14.15
CalibratedInflow	9/24/2023	7:30:00	13.95
CalibratedInflow	9/24/2023	7:45:00	13.74
CalibratedInflow	9/24/2023	8:00:00	13.54
CalibratedInflow	9/24/2023	8:15:00	13.35
CalibratedInflow	9/24/2023	8:30:00	13.16
CalibratedInflow	9/24/2023	8:45:00	12.97
CalibratedInflow	9/24/2023	9:00:00	12.78
CalibratedInflow	9/24/2023	9:15:00	12.6
CalibratedInflow	9/24/2023	9:30:00	12.42
CalibratedInflow	9/24/2023	9:45:00	12.25
CalibratedInflow	9/24/2023	10:00:00	12.13
CalibratedInflow	9/24/2023	10:15:00	12.01
CalibratedInflow	9/24/2023	10:30:00	11.88
CalibratedInflow	9/24/2023	10:45:00	11.74
CalibratedInflow	9/24/2023	11:00:00	11.61
CalibratedInflow	9/24/2023	11:15:00	11.47
CalibratedInflow	9/24/2023	11:30:00	11.33
CalibratedInflow	9/24/2023	11:45:00	11.19
CalibratedInflow	9/24/2023	12:00:00	11.05
CalibratedInflow	9/24/2023	12:15:00	10.91
CalibratedInflow	9/24/2023	12:30:00	10.78
CalibratedInflow	9/24/2023	12:45:00	10.64
CalibratedInflow	9/24/2023	13:00:00	10.51
CalibratedInflow	9/24/2023	13:15:00	10.37
CalibratedInflow	9/24/2023	13:30:00	10.24
CalibratedInflow	9/24/2023	13:45:00	10.11
CalibratedInflow	9/24/2023	14:00:00	9.99
CalibratedInflow	9/24/2023	14:15:00	9.86
CalibratedInflow	9/24/2023	14:30:00	9.74
CalibratedInflow	9/24/2023	14:45:00	9.62
CalibratedInflow	9/24/2023	15:00:00	9.5
CalibratedInflow	9/24/2023	15:15:00	9.38
CalibratedInflow	9/24/2023	15:30:00	9.26
CalibratedInflow	9/24/2023	15:45:00	9.15
CalibratedInflow	9/24/2023	16:00:00	9.03
CalibratedInflow	9/24/2023	16:15:00	8.92
CalibratedInflow	9/24/2023	16:30:00	8.82
CalibratedInflow	9/24/2023	16:45:00	8.71
CalibratedInflow	9/24/2023	17:00:00	8.6
CalibratedInflow	9/24/2023	17:15:00	8.5
CalibratedInflow	9/24/2023	17:30:00	8.4
CalibratedInflow	9/24/2023	17:45:00	8.3
CalibratedInflow	9/24/2023	18:00:00	8.2
CalibratedInflow	9/24/2023	18:15:00	8.1

CalibratedInflow	9/24/2023	18:30:00	8.01
CalibratedInflow	9/24/2023	18:45:00	7.91
CalibratedInflow	9/24/2023	19:00:00	7.82
CalibratedInflow	9/24/2023	19:15:00	7.73
CalibratedInflow	9/24/2023	19:30:00	7.64
CalibratedInflow	9/24/2023	19:45:00	7.55
CalibratedInflow	9/24/2023	20:00:00	7.46
CalibratedInflow	9/24/2023	20:15:00	7.37
CalibratedInflow	9/24/2023	20:30:00	7.29
CalibratedInflow	9/24/2023	20:45:00	7.2
CalibratedInflow	9/24/2023	21:00:00	7.12
CalibratedInflow	9/24/2023	21:15:00	7.04
CalibratedInflow	9/24/2023	21:30:00	6.96
CalibratedInflow	9/24/2023	21:45:00	6.88
CalibratedInflow	9/24/2023	22:00:00	6.8
CalibratedInflow	9/24/2023	22:15:00	6.72
CalibratedInflow	9/24/2023	22:30:00	6.65
CalibratedInflow	9/24/2023	22:45:00	6.58
CalibratedInflow	9/24/2023	23:00:00	6.5
CalibratedInflow	9/24/2023	23:15:00	6.43
CalibratedInflow	9/24/2023	23:30:00	6.36
CalibratedInflow	9/24/2023	23:45:00	6.29
CalibratedInflow	9/25/2023	0:00:00	6.22
CalibratedInflow	9/25/2023	0:15:00	6.15
CalibratedInflow	9/25/2023	0:30:00	6.08
CalibratedInflow	9/25/2023	0:45:00	6.02
CalibratedInflow	9/25/2023	1:00:00	5.95
CalibratedInflow	9/25/2023	1:15:00	5.88
CalibratedInflow	9/25/2023	1:30:00	5.82
CalibratedInflow	9/25/2023	1:45:00	5.76
CalibratedInflow	9/25/2023	2:00:00	5.7
CalibratedInflow	9/25/2023	2:15:00	5.63
CalibratedInflow	9/25/2023	2:30:00	5.57
CalibratedInflow	9/25/2023	2:45:00	5.51
CalibratedInflow	9/25/2023	3:00:00	5.46
CalibratedInflow	9/25/2023	3:15:00	5.4
CalibratedInflow	9/25/2023	3:30:00	5.34
CalibratedInflow	9/25/2023	3:45:00	5.28
CalibratedInflow	9/25/2023	4:00:00	5.23
CalibratedInflow	9/25/2023	4:15:00	5.17
CalibratedInflow	9/25/2023	4:30:00	5.12
CalibratedInflow	9/25/2023	4:45:00	5.07
CalibratedInflow	9/25/2023	5:00:00	5.01
CalibratedInflow	9/25/2023	5:15:00	4.96
CalibratedInflow	9/25/2023	5:30:00	4.91
CalibratedInflow	9/25/2023	5:45:00	4.86
CalibratedInflow	9/25/2023	6:00:00	4.81
CalibratedInflow	9/25/2023	6:15:00	4.76
CalibratedInflow	9/25/2023	6:30:00	4.71
CalibratedInflow	9/25/2023	6:45:00	4.66
CalibratedInflow	9/25/2023	7:00:00	4.62
CalibratedInflow	9/25/2023	7:15:00	4.57
CalibratedInflow	9/25/2023	7:30:00	4.52
CalibratedInflow	9/25/2023	7:45:00	4.48
CalibratedInflow	9/25/2023	8:00:00	4.43
CalibratedInflow	9/25/2023	8:15:00	4.39

CalibratedInflow	9/25/2023	8:30:00	4.34
CalibratedInflow	9/25/2023	8:45:00	4.3
CalibratedInflow	9/25/2023	9:00:00	4.26
CalibratedInflow	9/25/2023	9:15:00	4.22
CalibratedInflow	9/25/2023	9:30:00	4.17
CalibratedInflow	9/25/2023	9:45:00	4.13
CalibratedInflow	9/25/2023	10:00:00	4.09
CalibratedInflow	9/25/2023	10:15:00	4.05
CalibratedInflow	9/25/2023	10:30:00	4.01
CalibratedInflow	9/25/2023	10:45:00	3.98
CalibratedInflow	9/25/2023	11:00:00	3.94
CalibratedInflow	9/25/2023	11:15:00	3.9
CalibratedInflow	9/25/2023	11:30:00	3.86
CalibratedInflow	9/25/2023	11:45:00	3.82
CalibratedInflow	9/25/2023	12:00:00	3.79
CalibratedInflow	9/25/2023	12:15:00	3.75
CalibratedInflow	9/25/2023	12:30:00	3.72
CalibratedInflow	9/25/2023	12:45:00	3.68
CalibratedInflow	9/25/2023	13:00:00	3.65
CalibratedInflow	9/25/2023	13:15:00	3.61
CalibratedInflow	9/25/2023	13:30:00	3.58
CalibratedInflow	9/25/2023	13:45:00	3.54
CalibratedInflow	9/25/2023	14:00:00	3.51
CalibratedInflow	9/25/2023	14:15:00	3.48
CalibratedInflow	9/25/2023	14:30:00	3.44
CalibratedInflow	9/25/2023	14:45:00	3.41
CalibratedInflow	9/25/2023	15:00:00	3.38
CalibratedInflow	9/25/2023	15:15:00	3.35
CalibratedInflow	9/25/2023	15:30:00	3.32
CalibratedInflow	9/25/2023	15:45:00	3.29
CalibratedInflow	9/25/2023	16:00:00	3.26
CalibratedInflow	9/25/2023	16:15:00	3.23
CalibratedInflow	9/25/2023	16:30:00	3.2
CalibratedInflow	9/25/2023	16:45:00	3.17
CalibratedInflow	9/25/2023	17:00:00	3.14
CalibratedInflow	9/25/2023	17:15:00	3.12
CalibratedInflow	9/25/2023	17:30:00	3.09
CalibratedInflow	9/25/2023	17:45:00	3.06
CalibratedInflow	9/25/2023	18:00:00	3.03
CalibratedInflow	9/25/2023	18:15:00	3.01
CalibratedInflow	9/25/2023	18:30:00	2.98
CalibratedInflow	9/25/2023	18:45:00	2.95
CalibratedInflow	9/25/2023	19:00:00	2.93
CalibratedInflow	9/25/2023	19:15:00	2.9
CalibratedInflow	9/25/2023	19:30:00	2.88
CalibratedInflow	9/25/2023	19:45:00	2.85
CalibratedInflow	9/25/2023	20:00:00	2.83
CalibratedInflow	9/25/2023	20:15:00	2.81
CalibratedInflow	9/25/2023	20:30:00	2.78
CalibratedInflow	9/25/2023	20:45:00	2.76
CalibratedInflow	9/25/2023	21:00:00	2.73
CalibratedInflow	9/25/2023	21:15:00	2.71
CalibratedInflow	9/25/2023	21:30:00	2.69
CalibratedInflow	9/25/2023	21:45:00	2.67
CalibratedInflow	9/25/2023	22:00:00	2.65
CalibratedInflow	9/25/2023	22:15:00	2.62

CalibratedInflow 9/25/2023 22:30:00 2.6  
CalibratedInflow 9/25/2023 22:45:00 2.58  
CalibratedInflow 9/25/2023 23:00:00 2.56  
CalibratedInflow 9/25/2023 23:15:00 2.54  
CalibratedInflow 9/25/2023 23:30:00 2.52  
CalibratedInflow 9/25/2023 23:45:00 2.5

[REPORT]

::Reporting Options  
SUBCATCHMENTS ALL  
NODES ALL  
LINKS ALL

[TAGS]

[MAP]

DIMENSIONS -5670.920 0.000 10000.000 10000.000  
Units None

[COORDINATES]

::Node	X-Coord	Y-Coord
5	6047.221	4860.335
11	717.612	5016.760
7	9076.463	4860.335

[VERTICES]

::Link	X-Coord	Y-Coord
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[Polygons]

# Alternative 3 - Dam Removal SWMM Model Output:

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.2)

\*\*\*\*\*

## Analysis Options

\*\*\*\*\*

Flow Units ..... CFS

### Process Models:

Rainfall/Runoff ..... NO

RDII ..... NO

Snowmelt ..... NO

Groundwater ..... NO

Flow Routing ..... YES

Ponding Allowed ..... NO

Water Quality ..... NO

Flow Routing Method ..... DYNWAVE

Surcharge Method ..... EXTRAN

Starting Date ..... 09/22/2023 00:00:00

Ending Date ..... 09/25/2023 23:45:00

Antecedent Dry Days ..... 0.0

Report Time Step ..... 00:15:00

Routing Time Step ..... 30.00 sec

Variable Time Step ..... YES

Maximum Trials ..... 8

Number of Threads ..... 1

Head Tolerance ..... 0.005000 ft

\*\*\*\*\*

Flow Routing Continuity	Volume acre-feet	Volume 10 <sup>6</sup> gal
-------------------------	---------------------	-------------------------------

\*\*\*\*\*

Dry Weather Inflow .....	0.000	0.000
--------------------------	-------	-------

Wet Weather Inflow .....	0.000	0.000
--------------------------	-------	-------

Groundwater Inflow .....	0.000	0.000
--------------------------	-------	-------

RDII Inflow .....	0.000	0.000
-------------------	-------	-------

External Inflow .....	766.017	249.618
-----------------------	---------	---------

External Outflow .....	765.387	249.413
------------------------	---------	---------

Flooding Loss .....	0.000	0.000
---------------------	-------	-------

Evaporation Loss .....	0.000	0.000
------------------------	-------	-------

Exfiltration Loss .....	0.000	0.000
-------------------------	-------	-------

Initial Stored Volume ....	0.000	0.000
----------------------------	-------	-------

Final Stored Volume .....	0.381	0.124
---------------------------	-------	-------

Continuity Error (%) .....	0.033	
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\*\*\*\*\*

## Time-Step Critical Elements

\*\*\*\*\*

None

\*\*\*\*\*

Highest Flow Instability Indexes

\*\*\*\*\*

All links are stable.

\*\*\*\*\*

Most Frequent Nonconverging Nodes

\*\*\*\*\*

Convergence obtained at all time steps.

\*\*\*\*\*

Routing Time Step Summary

\*\*\*\*\*

Minimum Time Step : 29.50 sec  
 Average Time Step : 30.00 sec  
 Maximum Time Step : 30.00 sec  
 % of Time in Steady State : 0.00  
 Average Iterations per Step : 2.00  
 % of Steps Not Converging : 0.00  
 Time Step Frequencies :

30.000 - 13.228 sec	: 100.00 %
13.228 - 5.833 sec	: 0.00 %
5.833 - 2.572 sec	: 0.00 %
2.572 - 1.134 sec	: 0.00 %
1.134 - 0.500 sec	: 0.00 %

\*\*\*\*\*

Node Depth Summary

\*\*\*\*\*

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Max Depth Feet	Reported Max Depth Feet
5	JUNCTION	1.60	5.95	1196.95	0 13:27	5.95	5.95
11	JUNCTION	1.51	5.97	1201.97	0 13:19	5.95	5.95
7	OUTFALL	0.75	3.76	1190.46	0 13:27	3.75	3.75

\*\*\*\*\*

Node Inflow Summary

\*\*\*\*\*

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Maximum Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
5	JUNCTION	0.00	1199.03	0 13:21	0	250	0.268
11	JUNCTION	1221.81	1221.81	0 13:15	250	250	-0.185
7	OUTFALL	0.00	1186.15	0 13:27	0	249	0.000

\*\*\*\*\*

Node Surcharge Summary

\*\*\*\*\*

No nodes were surcharged.

\*\*\*\*\*

Node Flooding Summary

\*\*\*\*\*

No nodes were flooded.

\*\*\*\*\*

Outfall Loading Summary

\*\*\*\*\*

Outfall Node	Flow Freq	Avg Flow Pent	Max Flow CFS	Total Volume 10^6 gal
7	93.59	103.34	1186.15	249.394
System	93.59	103.34	1186.15	249.394

\*\*\*\*\*

Link Flow Summary

\*\*\*\*\*

Link	Type	Maximum  Flow  CFS	Time of Occurrence days hr:min	Max  Veloc  ft/sec	Maximum Full Flow	Max/ Full Depth
ExistingChannel_Downstream	CHANNEL	1186.15	0 13:27	3.25	0.03	0.23
NewFloodplainChannel	CHANNEL	1199.03	0 13:21	1.82	0.01	0.15

\*\*\*\*\*

Flow Classification Summary

\*\*\*\*\*

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class	Up Dry	Down Dry	Sub Dry	Sup Crit	Up Crit	Down Crit	Norm Crit	Inlet Ltd
ExistingChannel_Downstream	1.00	0.03	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00
NewFloodplainChannel	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.89	0.00

\*\*\*\*\*

Conduit Surcharge Summary

\*\*\*\*\*

No conduits were surcharged.

Analysis begun on: Mon Feb 12 08:23:28 2024

Analysis ended on: Mon Feb 12 08:23:28 2024

Total elapsed time: < 1 sec



# Alternative 4 - Open-Bottom Culvert SWMM Model Input:

[TITLE]

::Project Title/Notes

[OPTIONS]

::Option Value

FLOW\_UNITS CFS  
INFILTRATION GREEN\_AMPT  
FLOW\_ROUTING DYNWAVE  
LINK\_OFFSETS ELEVATION  
MIN\_SLOPE 0  
ALLOW\_PONDING YES  
SKIP\_STEADY\_STATE NO

START\_DATE 09/22/2023  
START\_TIME 00:00:00  
REPORT\_START\_DATE 09/22/2023  
REPORT\_START\_TIME 00:00:00  
END\_DATE 09/25/2023  
END\_TIME 23:55:00  
SWEEP\_START 01/01  
SWEEP\_END 12/31  
DRY\_DAYS 0  
REPORT\_STEP 00:15:00  
WET\_STEP 00:05:00  
DRY\_STEP 01:00:00  
ROUTING\_STEP 0:00:20  
RULE\_STEP 00:00:00

INERTIAL\_DAMPING PARTIAL  
NORMAL\_FLOW\_LIMITED BOTH  
FORCE\_MAIN\_EQUATION H-W  
VARIABLE\_STEP 0.75  
LENGTHENING\_STEP 0  
MIN\_SURFAREA 12.566  
MAX\_TRIALS 8  
HEAD\_TOLERANCE 0.005  
SYS\_FLOW\_TOL 5  
LAT\_FLOW\_TOL 5  
MINIMUM\_STEP 0.5  
THREADS 1

[EVAPORATION]

::Data Source Parameters

::-----

CONSTANT 0.1  
DRY\_ONLY NO

[RAINGAGES]

::Name Format Interval SCF Source

::-----

Gage1 VOLUME 0:15 1.0 TIMESERIES Tischer24hr100yr

[SUBCATCHMENTS]

::Name Rain Gage Outlet Area %Imperv Width %Slope CurbLen SnowPack

::-----

S1	Gage1	J9	1665	4.3	4000	20.3	0
S2	Gage1	J14	432	5.4	3000	28.2	0
S3	Gage1	J42	176	10.1	2500	25.3	0

[SUBAREAS]

Subcatchment	N-Imperv	N-Perv	S-Imperv	S-Perv	PctZero	RouteTo	PctRouted
S1	0.01	0.15	0.05	0.05	25	OUTLET	
S2	0.01	0.15	0.05	0.05	25	OUTLET	
S3	0.01	0.15	0.05	0.05	25	OUTLET	

[INFILTRATION]

Subcatchment	Param1	Param2	Param3	Param4	Param5
S1	5.57	1.15	0.19		
S2	5.88	0.41	0.19		
S3	5.04	2.25	0.21		

[AQUIFERS]

Name	Por	WP	FC	Ksat	Kslope	Tslope	ETu	ETs	Seep	Ebot	Egw	Umc	ETupat
S1	0.5	0.2	0.32	2	10.0	15.0	0.35	5	0.002	1324.98	1325.98	0.30	
S2	0.5	0.15	0.32	1.15	10.0	15.0	0.35	5	0.002	1292.31	1293.31	0.30	
S3	0.5	0.15	0.30	1.15	10.0	15.0	0.35	5	0.002	1201.86	1202.86	0.30	

[GROUNDWATER]

Subcatchment	Aquifer	Node	Esurf	A1	B1	A2	B2	A3	Dsw	Egwt	Ebot	Wgr	Umc
S1	S1	J44	1328.98	0.5	2	0	0	0	0	1325.98	1323.98	1325.98	*
S2	S2	J39	1296.31	0.5	2	0	0	0	0	1293.31	1291.31	1293.31	*
S3	S3	J42	1205.86	0.5	2	0	0	0	0	1202.86	1197.86	1202.86	*

[JUNCTIONS]

Name	Elevation	MaxDepth	InitDepth	SurDepth	Aponded
J7	1317.48	0	0	0	0
J8	1391.57	0	0	0	0
J9	1302.82	0	0	0	0
J11	1302.54	0	0	0	0
J14	1248.14	0	0	0	0
J15	1282.57	0	0	0	0
J16	1213.30	0	0	0	0
J34	1190.12	0	0	0	0
J35	1317.03	0	0	0	0
J36	1313.22	0	0	0	0
J37	1307.83	0	0	0	0
J38	1298.93	0	0	0	0
J39	1293.31	0	0	0	0
J40	1284.37	0	0	0	0
J41	1230.41	0	0	0	0
J42	1202.86	0	0	0	0
J43	1367.09	0	0	0	0
J44	1325.98	0	0	0	0
J45	1308.99	0	0	0	0
J46	1236.5	0	0	0	0

[OUTFALLS]

;;Name	Elevation	Type	Stage Data	Gated	Route To
Out2	1186.7	FREE	NO		

[STORAGE]

;;Name	Elev.	MaxDepth	InitDepth	Shape	Curve Type/Params	SurDepth	Fevap	Psi	Ksat	IMD
;Hartley Pond Storage1	1191	16	1	TABULAR	HartleyPond	0	0			

[CONDUITS]

;;Name	From Node	To Node	Length	Roughness	InOffset	OutOffset	InitFlow	MaxFlow
C9	J7	J35	1030	0.06	*	*	0	0
C10	J35	J36	1424	0.06	*	*	0	0
C11	J36	J37	1713	0.06	*	*	0	0
C12	J37	J9	1591	0.06	*	*	0	0
C13	J9	J38	1005	0.06	*	*	0	0
C14	J38	J39	1283	0.06	*	*	0	0
C15	J39	J40	1221	0.06	*	*	0	0
C16	J40	J14	1752	0.06	*	*	0	0
C17	J14	J41	654	0.06	*	*	0	0
C18	J41	J16	745	0.06	*	*	0	0
C19	J16	J42	1050	0.06	*	*	0	0
C20	J42	Storage1	957	0.06	*	*	0	0
C22	J34	Out2	787	0.06	*	*	0	0
C23	J8	J43	908	0.06	*	*	0	0
C24	J43	J44	1885	0.06	*	*	0	0
C25	J44	J45	2132	0.06	*	*	0	0
C26	J45	J9	1738	0.06	*	*	0	0
C27	J11	J14	767	0.06	*	*	0	0
C28	J15	J46	656	0.06	*	*	0	0
C29	J46	J16	755	0.06	*	*	0	0
C30	Storage1	J34	550	0.06	1203	*	0	0
C31	Storage1	J34	110	0.05	1191	*	0	0

[WEIRS]

;;Name	From Node	To Node	Type	CrestHt	Qcoeff	Gated	EndCon	EndCoeff	Surcharge
RoadWidth	RoadSurf	Coeff.	Curve						
;Hartley Dam 1	Storage1	J34	TRANSVERSE	1199.6	3.367	NO	0	0	YES

[XSECTIONS]

;;Link	Shape	Geom1	Geom2	Geom3	Geom4	Barrels	Culvert
C9	IRREGULAR	TischerReach11_1					
C10	IRREGULAR	RischerReach11_2					
C11	IRREGULAR	TischerReach11_3					
C12	IRREGULAR	TischerReach11_4					
C13	IRREGULAR	TischerReach10_1					
C14	IRREGULAR	TischerReach10_04					
C15	IRREGULAR	TischerReach10_3					
C16	IRREGULAR	TischerReach10_4					

C17	IRREGULAR	TischerReach9_1							
C18	IRREGULAR	TischerReach9_2							
C19	IRREGULAR	TischerReach8_1							
C20	IRREGULAR	TischerReach8_02							
C22	IRREGULAR	TischerReach8_3							
C23	IRREGULAR	Tributary10_1							
C24	IRREGULAR	Tributary10_2							
C25	IRREGULAR	Tributary10_3							
C26	IRREGULAR	Tributary10_4							
C27	IRREGULAR	Tributary9_1							
C28	IRREGULAR	Tributary8_1							
C29	IRREGULAR	Tributary8_2							
C30	IRREGULAR	HartleyPond_DrainageChannel							
C31	CUSTOM	7.5	FloodReduction_CustomCulvert	0	0	1			
1	RECT_OPEN	7.4	20	0.22	0.22				

[TRANSECTS]

::Transect Data in HEC-2 format

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;
NC 0.11 0.11 0.06
X1 TischerReach11_1 111 82.0 138.5 0.0 0.0 0.0 0.0 0.0
GR 1321.81 0.0 1321.81 1.6 1321.76 3.6 1321.75 5.2 1321.75 8.9
GR 1321.78 12.8 1321.77 14.4 1321.72 16.4 1321.6 23.6 1321.5 27.9
GR 1321.5 31.5 1321.57 34.4 1321.69 38.1 1321.72 43.0 1321.71 45.6
GR 1321.69 47.2 1321.69 50.9 1321.63 54.5 1321.59 58.1 1321.54 60.0
GR 1321.47 65.6 1321.44 69.2 1321.41 70.5 1321.4 71.5 1321.4 72.8
GR 1321.35 74.1 1321.34 74.5 1321.33 75.5 1321.29 76.1 1321.28 76.4
GR 1321.17 77.8 1321.14 78.4 1321.1 82.0 1320.79 83.3 1320.62 84.0
GR 1320.53 84.3 1320.3 85.0 1320.19 85.6 1320.01 86.3 1319.68 87.9
GR 1319.52 88.9 1319.46 89.2 1318.25 92.8 1318.04 93.8 1318.02 93.8
GR 1317.81 94.8 1317.76 94.8 1317.68 95.5 1317.57 96.1 1317.52 96.5
GR 1317.53 97.4 1317.53 98.4 1317.53 98.8 1317.53 99.4 1317.54 99.7
GR 1317.54 100.1 1317.54 101.0 1317.55 101.0 1317.54 102.0 1317.52 103.7
GR 1317.49 104.7 1317.46 105.6 1317.45 106.0 1317.44 107.0 1317.44 107.3
GR 1317.52 109.3 1317.59 109.6 1317.71 110.9 1317.98 112.2 1318.16 112.9
GR 1318.34 113.5 1318.73 114.5 1318.76 114.8 1318.83 115.2 1319.05 115.8
GR 1319.18 116.5 1319.33 118.4 1319.32 118.4 1319.29 119.4 1319.27 120.1
GR 1319.19 122.0 1319.2 122.0 1319.36 123.7 1319.47 124.3 1319.68 125.7
GR 1320.38 129.3 1320.41 129.3 1320.42 129.3 1320.64 130.6 1320.72 131.2
GR 1320.73 131.9 1320.75 132.5 1320.75 132.9 1320.76 133.2 1320.78 134.2
GR 1320.79 134.8 1320.82 135.5 1320.9 136.2 1320.93 136.5 1320.92 136.8
GR 1320.92 138.5 1321.02 139.1 1321.08 139.8 1321.14 140.1 1321.17 140.4
GR 1321.22 140.7 1321.5 142.1 1321.65 142.7 1321.75 143.4 1321.87 144.0
GR 1321.89 144.0
;
NC 0.11 0.11 0.06
X1 RischerReach11_2 133 99.0 131.8 0.0 0.0 0.0 0.0 0.0
GR 1316.04 0.0 1316.01 0.9 1316.06 2.6 1316.06 4.2 1315.97 5.9
GR 1315.98 7.3 1315.97 9.3 1315.99 11.0 1316.12 12.7 1316.12 14.1
GR 1316.06 16.0 1316.04 17.7 1316.16 19.4 1316.03 21.1 1316.01 22.8
GR 1315.99 23.7 1315.93 25.1 1315.92 26.4 1315.97 27.8 1315.95 31.2
GR 1316.05 32.8 1316.06 34.5 1315.98 36.2 1315.96 37.9 1315.88 39.6
GR 1315.82 41.3 1315.81 42.9 1315.94 44.7 1315.98 48.0 1315.87 49.7
GR 1315.82 51.4 1315.81 52.4 1315.89 54.7 1315.84 56.4 1315.9 57.9
GR 1315.93 59.8 1315.91 61.5 1315.79 63.4 1315.72 65.0 1315.74 66.1
GR 1315.73 66.5 1315.86 68.2 1315.97 71.6 1315.85 73.3 1315.7 74.9

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GR 1315.57 78.3 1315.56 79.8 1315.58 81.2 1315.64 83.4 1315.62 83.9  
GR 1315.4 86.7 1315.38 88.0 1315.38 88.4 1315.5 90.1 1315.47 93.5  
GR 1315.58 96.8 1315.59 99.0 1315.47 101.7 1315.29 104.4 1315.16 106.9  
GR 1314.98 108.5 1314.82 110.3 1314.64 111.3 1314.48 112.0 1314.52 112.6  
GR 1314.52 113.1 1314.6 115.4 1314.72 117.0 1314.74 118.7 1314.7 119.5  
GR 1314.62 120.4 1314.62 120.9 1314.71 122.1 1314.94 123.6 1315.25 125.4  
GR 1315.48 127.1 1315.64 128.8 1315.63 130.4 1315.7 131.8 1315.7 132.2  
GR 1315.51 134.5 1315.45 135.5 1315.61 138.9 1315.53 141.4 1315.52 142.3  
GR 1315.55 144.1 1315.44 145.6 1315.5 147.3 1315.5 149.0 1315.53 150.7  
GR 1315.66 152.4 1315.64 154.1 1315.52 155.7 1315.56 157.4 1315.58 157.8  
GR 1315.59 159.0 1315.68 160.8 1315.72 163.3 1315.81 165.8 1315.81 167.4  
GR 1315.84 169.2 1315.85 170.9 1315.89 172.6 1315.75 174.2 1315.75 177.6  
GR 1315.68 179.3 1315.69 181.0 1315.78 182.7 1315.78 183.8 1315.83 186.1  
GR 1315.84 187.9 1315.88 189.4 1315.85 190.6 1315.85 191.1 1315.78 192.8  
GR 1315.81 194.8 1315.82 196.1 1315.92 198.9 1315.93 201.2 1315.96 202.9  
GR 1316.08 204.6 1316.01 207.9 1315.89 209.6 1315.89 209.8 1315.92 211.3  
GR 1316.02 213.0 1316.07 215.3 1316.06 218.0 1316.2 221.4 1316.12 223.5  
GR 1316.19 226.4 1316.18 228.1 1316.27 229.7

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NC 0.11 0.11 0.06

XI TischerReach11\_3 234 76.1 114.2 0.0 0.0 0.0 0.0 0.0  
GR 1324.7 0.0 1324.79 3.3 1324.78 3.6 1324.8 4.9 1324.75 6.6  
GR 1324.76 7.9 1324.79 8.5 1324.8 9.2 1324.82 9.8 1324.75 11.5  
GR 1324.76 13.1 1324.79 13.8 1324.79 14.4 1324.81 14.8 1324.72 16.4  
GR 1324.54 18.4 1324.47 19.4 1324.43 19.7 1324.32 21.3 1324.04 24.6  
GR 1323.66 27.9 1323.46 29.5 1322.83 34.8 1322.42 38.1 1322.22 39.7  
GR 1322.08 41.3 1321.92 42.7 1321.86 43.0 1321.81 43.6 1321.77 44.0  
GR 1321.68 45.3 1321.65 45.6 1321.6 46.3 1321.51 46.9 1321.52 47.6  
GR 1321.44 48.2 1321.48 49.5 1321.29 50.2 1321.02 51.2 1320.99 51.2  
GR 1320.93 51.5 1320.47 52.5 1319.83 54.5 1319.77 55.4 1319.78 55.4  
GR 1319.69 56.1 1319.59 56.8 1319.6 57.4 1319.53 57.7 1319.41 58.4  
GR 1319.34 59.4 1319.26 59.7 1319.16 59.7 1318.21 61.4 1318.15 61.4  
GR 1317.49 63.0 1317.25 64.6 1317.11 67.9 1316.94 69.6 1316.92 69.9  
GR 1316.88 70.9 1316.84 72.8 1316.76 74.1 1316.6 76.1 1316.28 77.8  
GR 1315.82 79.4 1315.49 81.0 1315.26 82.7 1315 84.6 1314.9 85.6  
GR 1314.87 86.0 1314.83 86.6 1314.8 87.3 1314.74 87.6 1313.98 91.2  
GR 1313.83 91.5 1313.56 92.5 1312.87 94.5 1312.78 96.1 1312.76 96.5  
GR 1312.75 97.4 1312.7 98.4 1312.66 98.8 1312.66 99.4 1312.51 101.0  
GR 1312.24 102.7 1312.31 103.0 1312.69 104.3 1314.26 107.6 1314.59 108.9  
GR 1315.69 112.5 1315.88 114.2 1315.87 114.5 1315.82 115.8 1315.76 116.5  
GR 1315.69 117.5 1315.68 117.5 1315.54 119.4 1315.37 121.1 1315.49 122.7  
GR 1315.47 123.4 1315.46 123.7 1315.45 124.3 1315.35 126.0 1315.32 126.0  
GR 1315.16 127.6 1315.15 127.6 1315.12 129.3 1314.67 134.2 1314.61 135.8  
GR 1314.61 136.2 1314.59 137.5 1314.41 139.1 1314.37 140.7 1314.35 141.1  
GR 1314.31 142.1 1314.28 142.4 1314.22 143.0 1314.2 143.4 1314.07 145.0  
GR 1314.05 145.0 1313.98 145.7 1313.8 147.0 1313.69 147.6 1313.48 149.0  
GR 1313.46 149.3 1313.36 150.6 1313.35 150.9 1313.34 150.9 1313.24 152.2  
GR 1313.2 152.9 1313.18 153.5 1313.14 154.2 1313.11 155.8 1313.04 156.5  
GR 1313.01 156.8 1312.95 157.5 1312.91 157.8 1312.82 158.8 1312.79 159.1  
GR 1312.77 159.4 1312.66 160.8 1312.54 162.4 1312.44 164.0 1312.44 164.7  
GR 1312.44 165.7 1312.41 166.7 1312.38 167.3 1312.39 168.0 1312.39 168.6  
GR 1312.4 169.0 1312.39 169.3 1312.33 170.6 1312.33 170.9 1312.38 171.9  
GR 1312.41 172.2 1312.41 172.6 1312.43 173.9 1312.43 174.5 1312.44 175.2  
GR 1312.44 175.5 1312.46 176.5 1312.45 176.5 1312.5 177.5 1312.78 178.1  
GR 1312.89 178.1 1313.18 179.1 1313.46 180.1 1313.6 181.1 1313.7 182.1  
GR 1313.71 182.4 1313.74 183.1 1313.84 186.0 1313.88 186.7 1313.91 187.3

GR 1313.93 189.0 1313.96 189.6 1313.98 190.0 1314.01 190.6 1314.02 190.9  
GR 1314.03 191.9 1314.03 192.3 1314.04 192.6 1313.97 193.9 1314.02 195.2  
GR 1314.02 195.5 1314.01 195.9 1313.97 196.9 1313.95 197.8 1313.88 200.5  
GR 1313.86 201.1 1313.85 202.1 1313.86 203.7 1313.86 204.1 1313.81 205.1  
GR 1313.79 205.4 1313.79 205.7 1313.87 207.3 1313.86 207.7 1313.83 208.3  
GR 1313.82 209.0 1313.75 209.6 1313.72 209.6 1313.64 210.6 1313.6 211.6  
GR 1313.57 212.3 1313.57 212.6 1313.55 213.6 1313.54 213.9 1313.56 214.2  
GR 1313.57 215.2 1313.57 215.6 1313.56 216.2 1313.57 216.9 1313.58 217.2  
GR 1313.62 218.5 1313.63 218.8 1313.64 219.2 1313.66 219.8 1313.67 220.5  
GR 1313.68 221.1 1313.68 221.5 1313.69 222.1 1313.77 222.8 1313.84 223.1  
GR 1313.92 223.8 1313.95 224.1 1313.99 225.1 1314.01 225.4 1314.01 225.7  
GR 1313.97 227.0 1313.85 228.7 1313.85 229.0 1313.85 229.7

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NC 0.11 0.11 0.06

XI TischerReach11\_4 195 90.0 128.1 0.0 0.0 0.0 0.0 0.0

GR 1311 -100 1308.44 0.0 1308.41 1.3 1308.51 3.4 1308.53 5.5  
GR 1308.46 6.8 1308.41 8.5 1308.36 9.6 1308.43 11.9 1308.51 13.1  
GR 1308.6 14.0 1308.62 14.6 1308.4 17.2 1308.4 17.8 1308.44 19.0  
GR 1308.44 19.8 1308.48 21.3 1308.4 23.6 1308.31 25.0 1308.27 26.7  
GR 1308.21 27.7 1308.19 28.3 1308.21 29.4 1308.17 30.9 1308.11 31.8  
GR 1307.9 33.0 1307.78 34.1 1307.68 35.3 1307.68 35.5 1307.76 36.5  
GR 1307.87 37.6 1307.97 39.9 1308.07 41.1 1308.12 41.5 1308.23 43.3  
GR 1308.22 43.6 1308.07 44.6 1307.96 45.8 1307.93 46.9 1307.94 47.8  
GR 1307.98 48.5 1307.95 49.9 1307.86 51.6 1307.71 52.8 1307.62 53.7  
GR 1307.62 53.9 1307.78 56.3 1307.77 57.4 1307.91 59.8 1308.01 60.9  
GR 1308.03 61.5 1308.04 62.6 1308.14 64.4 1308.15 64.7 1308.12 65.6  
GR 1308.22 69.3 1308.2 71.9 1308.25 73.1 1308.3 73.8 1308.37 74.9  
GR 1308.41 77.4 1308.73 80.8 1308.89 83.1 1308.95 84.3 1308.96 84.9  
GR 1308.95 85.4 1308.87 86.6 1308.84 87.8 1308.9 88.9 1308.94 90.0  
GR 1308.47 94.3 1308.29 95.4 1307.74 98.3 1307.44 99.4 1307.06 100.6  
GR 1306.79 101.7 1306.6 102.9 1306.49 104.1 1306.4 104.8 1306.27 106.4  
GR 1306.2 106.9 1306.15 107.6 1306.04 108.4 1306 109.1 1305.99 109.9  
GR 1306.05 111.1 1306.03 112.2 1306.06 113.3 1306.31 114.6 1306.39 115.4  
GR 1306.55 116.2 1306.86 117.5 1307.05 118.1 1307.39 118.8 1310.06 123.8  
GR 1310.62 125.1 1310.95 126.0 1311.11 126.6 1311.22 127.4 1311.28 128.1  
GR 1311.28 129.2 1311.13 130.9 1311.08 132.1 1311.09 133.2 1311.16 134.4  
GR 1311.1 135.6 1310.97 136.7 1310.96 137.9 1310.99 138.6 1311.11 140.2  
GR 1311.12 140.7 1311.09 141.4 1310.97 142.3 1310.86 142.8 1310.65 143.7  
GR 1310.05 146.1 1309.34 148.4 1309.14 149.2 1309.09 149.6 1309.06 150.1  
GR 1309.04 150.7 1309.06 151.3 1309.15 151.9 1309.33 152.7 1309.44 153.4  
GR 1309.55 154.2 1309.82 155.3 1309.86 155.5 1309.98 157.6 1309.98 157.9  
GR 1309.74 159.7 1309.6 160.5 1309.25 161.8 1308.9 163.1 1308.79 163.5  
GR 1308.6 164.7 1308.47 165.7 1308.41 167.1 1308.43 168.2 1308.5 169.4  
GR 1308.62 170.9 1308.64 171.7 1308.62 172.4 1308.51 173.5 1308.48 174.0  
GR 1308.45 175.2 1308.48 176.4 1308.5 178.7 1308.5 179.9 1308.47 180.8  
GR 1308.47 183.0 1308.51 183.9 1308.59 185.1 1308.68 185.7 1308.83 186.5  
GR 1309.19 189.2 1309.07 190.4 1308.94 191.4 1308.87 191.7 1308.78 192.7  
GR 1308.76 193.5 1308.68 193.9 1308.53 194.3 1308.39 195.0 1308.31 195.6  
GR 1308.48 196.9 1308.52 197.4 1308.56 198.6 1308.63 202.0 1308.52 203.2  
GR 1308.52 204.1 1308.68 206.2 1308.67 207.9 1308.79 209.1 1308.81 210.2  
GR 1309.15 212.5 1309.24 213.7 1309.27 214.6 1309.27 215.2 1309.41 216.0  
GR 1309.56 216.8 1309.85 217.8 1309.97 218.4 1310.11 218.9 1310.45 220.4  
GR 1310.49 221.0 1310.47 221.9 1310.42 223.0 1310.08 224.2 1309.9 225.2  
GR 1309.61 226.5 1309.51 227.3 1309.46 228.2 1309.38 228.9 1309.34 229.7

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NC 0.11 0.11 0.06

X1 TischerReach10_1	445	255.6	301.5	0.0	0.0	0.0	0.0	0.0
GR 1310.02	0.0	1310.09	3.3	1310.25	6.9	1310.41	8.9	1310.5 10.8
GR 1310.43	12.8	1310.24	14.8	1310.2	18.0	1310.31	20.3	1310.69 24.3
GR 1310.73	25.9	1310.73	26.6	1310.4	31.8	1310.5	33.8	1310.52 36.1
GR 1310.15	40.0	1310.1	41.3	1310.15	42.0	1310.13	43.3	1310.57 44.9
GR 1310.61	46.9	1310.49	47.9	1310.45	48.9	1310.58	50.9	1311.26 54.5
GR 1311.32	56.4	1311.42	57.7	1311.58	58.7	1311.62	59.7	1311.48 61.4
GR 1311.37	62.0	1311.38	62.7	1311.85	67.9	1311.97	69.9	1312.04 73.2
GR 1312.2	75.5	1312.35	76.8	1312.69	81.7	1312.85	82.7	1313.03 85.6
GR 1313.16	86.3	1313.18	86.9	1313.43	88.6	1313.35	92.5	1313.5 94.8
GR 1313.66	98.4	1313.91	102.0	1314.2	104.3	1314.32	105.6	1314.9 107.6
GR 1315.17	109.6	1315.63	111.5	1316.07	114.8	1316.65	117.5	1316.72 118.1
GR 1317.22	121.1	1317.37	127.3	1317.46	128.6	1318.01	130.9	1318.4 131.9
GR 1319.06	134.2	1319.29	136.2	1319.44	138.1	1319.25	150.6	1319.26 151.2
GR 1319.27	151.6	1319.33	152.6	1319.57	155.2	1319.54	157.2	1319.04 162.1
GR 1318.89	162.7	1318.75	164.7	1318.6	165.7	1318.33	166.7	1318.3 167.0
GR 1317.76	168.6	1317.55	169.0	1317.18	170.3	1317.14	170.6	1315.85 173.2
GR 1312.95	178.1	1312.49	178.8	1311.68	179.8	1310.44	181.8	1309.7 183.4
GR 1308.82	185.7	1308.25	188.3	1308.1	189.3	1308.06	191.3	1308.02 191.9
GR 1307.86	193.2	1307.81	193.9	1307.72	195.2	1307.73	200.5	1307.68 202.8
GR 1307.42	204.7	1306.89	207.3	1306.88	207.7	1306.56	209.0	1306.41 210.0
GR 1306.12	211.0	1305.8	211.9	1305.76	212.3	1305.41	213.6	1305.06 214.6
GR 1304.71	215.9	1304.61	217.8	1304.25	221.1	1303.94	225.4	1303.98 228.0
GR 1304.31	233.3	1304.4	233.9	1304.55	234.9	1305.23	238.5	1305.45 240.8
GR 1305.5	241.1	1305.67	242.1	1305.72	242.8	1306	244.1	1306.12 244.8
GR 1306.39	245.7	1306.82	248.0	1306.83	248.4	1306.71	250.3	1306.77 252.0
GR 1306.79	252.3	1307	253.0	1307.15	253.9	1307.26	255.6	1306.17 260.2
GR 1305.61	262.8	1304.14	266.4	1303.52	267.4	1303.47	267.4	1303.37 267.7
GR 1302.36	269.4	1301.62	271.0	1301.54	271.0	1301.2	273.0	1301.17 274.6
GR 1301.28	276.9	1301.47	278.9	1302.07	280.5	1302.08	280.8	1302.58 282.5
GR 1303.25	285.1	1303.5	286.4	1303.58	286.7	1303.94	287.7	1304.05 288.4
GR 1304.22	289.0	1304.41	289.7	1304.48	290.0	1304.5	290.4	1305.62 294.0
GR 1305.66	294.0	1305.83	294.3	1306.36	295.9	1307.19	297.6	1307.82 298.6
GR 1309.16	301.5	1309.71	303.5	1309.99	305.4	1309.79	306.8	1309.61 307.1
GR 1309.52	307.4	1308.96	308.1	1308.39	309.1	1307.21	311.7	1306.39 315.3
GR 1306.25	317.9	1306.04	319.6	1305.87	321.5	1305.74	322.5	1305.86 324.5
GR 1305.96	325.1	1306.13	326.1	1306.14	326.1	1306.15	326.4	1306.21 327.4
GR 1306.25	329.4	1306.15	332.3	1306.15	336.0	1306.05	336.9	1305.99 337.6
GR 1305.95	338.3	1305.9	339.2	1305.89	339.2	1305.89	339.6	1305.69 341.5
GR 1305.36	343.5	1305.33	344.8	1305.33	345.1	1305.33	345.5	1305.47 349.1
GR 1305.51	351.0	1305.49	351.4	1305.46	352.0	1305.44	352.7	1305.43 353.0
GR 1305.45	353.7	1305.45	354.0	1305.51	355.0	1305.55	355.3	1305.61 356.3
GR 1305.91	358.3	1305.94	358.6	1306.09	360.6	1306.14	360.9	1306.21 361.9
GR 1306.24	362.2	1306.25	362.2	1306.39	363.5	1306.54	364.2	1306.81 367.1
GR 1306.9	367.5	1306.96	368.1	1307.09	370.1	1307.34	371.7	1307.31 373.7
GR 1307.21	375.0	1307.16	375.3	1307.14	375.7	1307.1	376.6	1307.07 377.6
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GR 1307.26	387.1	1307.5	388.5	1307.58	389.1	1307.92	390.7	1307.84 392.7
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GR 1308.35	409.8	1308.19	412.4	1308.13	414.0	1308.22	415.7	1308.26 416.0
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GR 1308.64	424.5	1308.66	425.2	1308.73	428.1	1308.49	434.7	1308.89 438.3
GR 1309.09	440.0	1309.12	440.3	1309.14	440.3	1309.38	443.6	1309.41 443.9
GR 1309.46	444.9	1309.5	445.2	1309.56	445.9	1309.57	446.2	1309.6 446.5

GR 1309.71 448.5 1309.9 449.8 1310.04 450.8 1310.18 451.8 1310.2 452.1  
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GR 1299.53 6.7 1300.21 7.2 1300.27 7.3 1300.51 7.6 1300.66 7.8  
GR 1301 8.5 1301.21 8.8 1301.22 8.8 1301.27 9.4 1301.05 9.9  
GR 1301.02 10 1300.92 10.1 1300.63 10.5 1300.04 11 1298.83 11.9  
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GR 1296.82 14.3 1296.74 14.6 1296.57 14.8 1296.46 14.9 1296.14 15.2  
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GR 1298.96 24.8 1299.02 25.2 1299.03 25.2 1298.96 25.7 1299.11 26.3  
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GR 1289.87 23 1289.95 23.4 1290.08 24.5 1290.09 24.8 1290.08 25.1
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 GR 1230.68 5.2 1230.37 5.9 1230.3 6 1230.2 6.5 1230.24 6.6  
 GR 1230.24 6.9 1230.19 7.4 1230.2 7.7 1230.19 7.8 1230.04 8.3  
 GR 1230.01 8.4 1230.03 8.7 1230.02 8.8 1230.04 8.9 1230.01 9.5  
 GR 1229.92 9.9 1229.67 10.7 1229.57 11.3 1229.32 11.9 1229.2 12.5  
 GR 1229.03 13.1 1229.03 13.5 1228.97 13.8 1228.96 14 1229.04 14.6  
 GR 1229.12 14.9 1229.12 15.3 1229.14 15.6 1229.09 16 1229.07 16.4  
 GR 1229.08 16.8 1229.04 17.4 1229.08 18 1229.13 18.4 1229.14 18.5  
 GR 1229.28 19.3 1229.46 19.8 1229.53 20 1229.65 20.2 1229.69 20.3  
 GR 1229.78 21 1229.77 21.1 1229.68 21.4 1229.61 21.6 1229.38 22  
 GR 1228.82 22.5 1228.39 22.8 1228.38 22.8 1228.37 22.9 1227.88 23.4  
 GR 1227.81 23.6 1227.75 23.7 1227.75 23.9 1227.77 24 1227.77 24.3  
 GR 1227.81 24.6 1227.78 24.7 1227.6 25 1227.4 25.2 1227.12 25.5  
 GR 1226.92 25.7 1226.83 25.9 1226.58 26.4 1226.57 26.5 1226.73 27.2  
 GR 1226.75 27.3 1226.75 27.7 1226.74 27.9 1226.7 28.2 1226.69 28.2  
 GR 1226.69 28.3 1226.78 28.9 1226.79 29 1226.78 29.3 1226.78 29.5  
 GR 1226.91 30.1 1226.88 30.7 1227.04 31.1 1227.15 31.7 1227.19 31.8  
 GR 1227.24 32.5 1227.13 32.9 1227.06 33.1 1226.99 33.3 1226.87 33.5  
 GR 1226.67 33.7 1225.94 34.3 1225.93 34.3 1225.67 34.7 1225.5 34.9  
 GR 1225.39 35.4 1225.06 36.1 1224.66 36.9 1224.57 37 1224.45 37.2  
 GR 1224.26 37.6 1224.06 37.9 1224.04 37.9 1224.03 38 1224.05 38.1  
 GR 1224.07 38.3 1224.09 38.6 1224.11 38.7 1224.17 38.8 1224.32 39  
 GR 1224.48 39.2 1225.88 40.1 1226.31 40.4 1226.39 40.5 1226.52 40.5  
 GR 1226.87 40.8 1227.06 41 1227.56 41.6 1227.62 41.9 1227.63 42  
 GR 1227.66 42.2 1227.66 42.3 1227.57 42.8 1227.57 43 1227.64 43.2  
 GR 1227.69 43.3 1227.74 43.4 1227.83 43.9 1227.84 44 1227.84 44.1  
 GR 1227.83 44.1 1227.73 44.4 1227.68 44.6 1227.66 44.8 1227.64 45  
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 GR 1227.79 46.7 1227.83 46.9 1227.87 47.1 1227.94 47.6 1227.93 47.7  
 GR 1227.9 47.8 1227.78 48.3 1227.74 48.4 1227.7 48.5 1227.6 48.7  
 GR 1227.55 48.9 1227.45 49.1 1227.36 49.4 1227.34 49.5 1227.33 49.5  
 GR 1227.33 49.7 1227.33 49.8 1227.36 50.1 1227.37 50.2 1227.39 50.3  
 GR 1227.43 50.5 1227.44 50.7 1227.42 51.2 1227.22 52 1227.22 52.1  
 GR 1227.24 52.3 1227.25 52.5 1227.16 53 1227.13 53.1 1227.06 53.4  
 GR 1227 53.8 1227.03 54.1 1227.05 54.3 1227.05 54.5 1226.98 54.7  
 GR 1226.98 54.8 1227 54.9 1227.15 55.2 1227.24 55.5 1227.27 55.5  
 GR 1227.29 55.6 1227.46 55.9 1227.6 56.2 1227.67 56.3 1227.78 56.5  
 GR 1227.87 56.6 1227.93 56.8 1228.04 57 1228.19 57.4 1228.35 57.7  
 GR 1228.42 58 1228.46 58.1 1228.53 58.2 1228.6 58.4 1228.64 58.6  
 GR 1228.68 58.8 1228.72 59.1 1228.75 59.3 1228.79 59.5 1228.84 59.8  
 GR 1228.84 59.9 1228.86 60 1228.89 60.2 1228.91 60.4 1228.96 60.6  
 GR 1229.1 61 1229.13 61 1229.25 61.2 1229.47 61.6 1229.52 61.7  
 GR 1229.75 62 1230.04 62.4 1230.31 62.7 1230.5 62.8 1230.99 63.1  
 GR 1231.03 63.1 1231.53 63.4 1231.61 63.5 1231.72 63.6 1232.36 64  
 GR 1232.54 64.2 1232.9 64.4 1233.05 64.6 1233.5 64.9 1233.7 65.1  
 GR 1233.93 65.2 1233.97 65.3 1234.03 65.3 1234.75 66 1235.04 66.2  
 GR 1235.21 66.4 1235.33 66.5 1236.01 67 1236.1 67.1 1236.58 67.4  
 GR 1236.84 67.7 1236.99 67.8 1237.21 68 1237.45 68.2 1237.62 68.3  
 GR 1238.56 68.9 1239.59 69.7 1239.77 70 1240.2 70.6 1240.51 71.4  
 GR 1240.56 71.5 1240.585 71.75394 1240.59 71.8 1240.6 71.8

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NC 0.11 0.11 0.06  
 X1 TischerReach9\_2 259 32.5 41.9 0.0 0.0 0.0 3.28084 0.0  
 GR 1229.92 0 1229.86 0.4 1229.87 0.5 1229.84 0.9 1229.8 1  
 GR 1229.69 1.6 1229.94 2.2 1230.02 2.5 1230.5 3.8 1230.58 4  
 GR 1230.52 4.3 1230.5 4.5 1230.54 4.6 1230.56 4.8 1230.69 5.2  
 GR 1230.68 5.2 1230.37 5.9 1230.3 6 1230.2 6.5 1230.24 6.6  
 GR 1230.24 6.9 1230.19 7.4 1230.2 7.7 1230.19 7.8 1230.04 8.3  
 GR 1230.01 8.4 1230.03 8.7 1230.02 8.8 1230.04 8.9 1230.01 9.5  
 GR 1229.92 9.9 1229.67 10.7 1229.57 11.3 1229.32 11.9 1229.2 12.5  
 GR 1229.03 13.1 1229.03 13.5 1228.97 13.8 1228.96 14 1229.04 14.6  
 GR 1229.12 14.9 1229.12 15.3 1229.14 15.6 1229.09 16 1229.07 16.4  
 GR 1229.08 16.8 1229.04 17.4 1229.08 18 1229.13 18.4 1229.14 18.5  
 GR 1229.28 19.3 1229.46 19.8 1229.53 20 1229.65 20.2 1229.69 20.3  
 GR 1229.78 21 1229.77 21.1 1229.68 21.4 1229.61 21.6 1229.38 22  
 GR 1228.82 22.5 1228.39 22.8 1228.38 22.8 1228.37 22.9 1227.88 23.4  
 GR 1227.81 23.6 1227.75 23.7 1227.75 23.9 1227.77 24 1227.77 24.3  
 GR 1227.81 24.6 1227.78 24.7 1227.6 25 1227.4 25.2 1227.12 25.5  
 GR 1226.92 25.7 1226.83 25.9 1226.58 26.4 1226.57 26.5 1226.73 27.2  
 GR 1226.75 27.3 1226.75 27.7 1226.74 27.9 1226.7 28.2 1226.69 28.2  
 GR 1226.69 28.3 1226.78 28.9 1226.79 29 1226.78 29.3 1226.78 29.5  
 GR 1226.91 30.1 1226.88 30.7 1227.04 31.1 1227.15 31.7 1227.19 31.8  
 GR 1227.24 32.5 1227.13 32.9 1227.06 33.1 1226.99 33.3 1226.87 33.5  
 GR 1226.67 33.7 1225.94 34.3 1225.93 34.3 1225.67 34.7 1225.5 34.9  
 GR 1225.39 35.4 1225.06 36.1 1224.66 36.9 1224.57 37 1224.45 37.2  
 GR 1224.26 37.6 1224.06 37.9 1224.04 37.9 1224.03 38 1224.05 38.1  
 GR 1224.07 38.3 1224.09 38.6 1224.11 38.7 1224.17 38.8 1224.32 39  
 GR 1224.48 39.2 1225.88 40.1 1226.31 40.4 1226.39 40.5 1226.52 40.5  
 GR 1226.87 40.8 1227.06 41 1227.56 41.6 1227.62 41.9 1227.63 42  
 GR 1227.66 42.2 1227.66 42.3 1227.57 42.8 1227.57 43 1227.64 43.2  
 GR 1227.69 43.3 1227.74 43.4 1227.83 43.9 1227.84 44 1227.84 44.1  
 GR 1227.83 44.1 1227.73 44.4 1227.68 44.6 1227.66 44.8 1227.64 45  
 GR 1227.63 45.1 1227.62 45.2 1227.66 45.9 1227.76 46.5 1227.77 46.6  
 GR 1227.79 46.7 1227.83 46.9 1227.87 47.1 1227.94 47.6 1227.93 47.7  
 GR 1227.9 47.8 1227.78 48.3 1227.74 48.4 1227.7 48.5 1227.6 48.7  
 GR 1227.55 48.9 1227.45 49.1 1227.36 49.4 1227.34 49.5 1227.33 49.5  
 GR 1227.33 49.7 1227.33 49.8 1227.36 50.1 1227.37 50.2 1227.39 50.3  
 GR 1227.43 50.5 1227.44 50.7 1227.42 51.2 1227.22 52 1227.22 52.1  
 GR 1227.24 52.3 1227.25 52.5 1227.16 53 1227.13 53.1 1227.06 53.4  
 GR 1227 53.8 1227.03 54.1 1227.05 54.3 1227.05 54.5 1226.98 54.7  
 GR 1226.98 54.8 1227 54.9 1227.15 55.2 1227.24 55.5 1227.27 55.5  
 GR 1227.29 55.6 1227.46 55.9 1227.6 56.2 1227.67 56.3 1227.78 56.5  
 GR 1227.87 56.6 1227.93 56.8 1228.04 57 1228.19 57.4 1228.35 57.7  
 GR 1228.42 58 1228.46 58.1 1228.53 58.2 1228.6 58.4 1228.64 58.6  
 GR 1228.68 58.8 1228.72 59.1 1228.75 59.3 1228.79 59.5 1228.84 59.8  
 GR 1228.84 59.9 1228.86 60 1228.89 60.2 1228.91 60.4 1228.96 60.6  
 GR 1229.1 61 1229.13 61 1229.25 61.2 1229.47 61.6 1229.52 61.7  
 GR 1229.75 62 1230.04 62.4 1230.31 62.7 1230.5 62.8 1230.99 63.1  
 GR 1231.03 63.1 1231.53 63.4 1231.61 63.5 1231.72 63.6 1232.36 64  
 GR 1232.54 64.2 1232.9 64.4 1233.05 64.6 1233.5 64.9 1233.7 65.1  
 GR 1233.93 65.2 1233.97 65.3 1234.03 65.3 1234.75 66 1235.04 66.2  
 GR 1235.21 66.4 1235.33 66.5 1236.01 67 1236.1 67.1 1236.58 67.4  
 GR 1236.84 67.7 1236.99 67.8 1237.21 68 1237.45 68.2 1237.62 68.3  
 GR 1238.56 68.9 1239.59 69.7 1239.77 70 1240.2 70.6 1240.51 71.4  
 GR 1240.56 71.5 1240.585 71.75394 1240.59 71.8 1240.6 71.8

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 NC 0.11 0.11 0.06

X1 TischerReach8_1	446	96.2	108.5	0.0	0.0	0.0	3.28084	0.0	
GR 1215.74	0	1215.62	0.4	1215.52	1.3	1215.16	2.3	1215.07	2.7
GR 1214.97	3.5	1214.84	5.7	1214.87	6.4	1214.76	8.3	1214.48	9.6
GR 1214.66	10.5	1214.65	10.9	1214.5	12.4	1214.41	12.9	1214.39	13.7
GR 1214.23	14.3	1214.12	15	1214.13	16.3	1213.79	17.7	1213.08	19
GR 1212.34	20.7	1211.53	22.1	1211.25	22.8	1211.04	23.5	1210.99	24.4
GR 1210.63	26.2	1210.56	26.8	1210.94	27.4	1210.78	27.9	1210.87	28.5
GR 1211.16	29.6	1211.08	30.2	1210.93	30.7	1210.89	32.2	1210.82	32.9
GR 1210.68	33.5	1210.81	34.1	1211	34.6	1211	35.2	1210.85	36.3
GR 1210.91	36.7	1210.91	37.1	1210.85	37.4	1210.59	37.9	1210.56	37.9
GR 1210.75	39.1	1210.75	39.4	1210.65	40.5	1210.23	42.5	1210.14	43.5
GR 1210.19	43.8	1210.24	45	1210.22	45.2	1210.15	45.3	1210.06	45.7
GR 1210.12	46.3	1210.09	46.5	1209.97	46.8	1209.94	47.2	1209.6	48.3
GR 1209.62	48.5	1209.87	49.1	1210.3	49.6	1210.39	49.8	1210.34	50.7
GR 1210.55	52.1	1210.58	52.9	1210.72	53.6	1210.54	54.9	1210.37	55.4
GR 1210.04	56.8	1210.1	57.3	1210.39	58.1	1210.4	59.1	1210.31	59.6
GR 1210.42	60.7	1210.41	60.9	1210.36	61.7	1210.38	62.4	1210.25	63.5
GR 1210.22	64.1	1210.31	65.2	1210.28	65.9	1210.31	66.8	1210.4	67.4
GR 1210.4	68.9	1210.26	70.2	1210.09	70.8	1210.07	70.9	1210.02	71.8
GR 1210.13	73.4	1210.34	74.5	1210.3	75.3	1210.33	75.7	1210.51	76.3
GR 1210.44	76.8	1210.42	76.9	1210.34	77.1	1210.31	77.1	1210.21	77.5
GR 1210.25	79.1	1210.41	79.8	1210.53	80.1	1210.66	80.9	1210.43	81.9
GR 1210.41	82	1210.38	82.3	1210.45	83.1	1210.4	83.9	1210.06	85.7
GR 1209.97	86.9	1209.74	88.1	1209.73	88.4	1209.73	88.5	1210.05	90.2
GR 1210.04	90.3	1210.01	90.6	1209.98	91.4	1209.96	91.5	1209.88	91.9
GR 1209.72	92.4	1209.51	92.9	1209.47	93	1209.4	93.2	1209.39	93.3
GR 1209.32	93.5	1209.31	93.6	1209.47	94.6	1209.46	95.2	1209.51	95.4
GR 1209.62	96.2	1209.33	97.4	1209.26	98.8	1209.22	99.1	1209.21	99.2
GR 1209.12	99.5	1209.08	99.6	1209.07	99.6	1209.06	100.2	1209.19	100.6
GR 1209.2	100.7	1209.2	100.8	1209.02	101.9	1208.96	101.9	1208.7	102.2
GR 1208.22	102.9	1208.08	104.6	1208.13	106	1208.2	106.4	1208.43	106.9
GR 1208.59	107.1	1208.78	107.3	1208.85	107.4	1208.88	107.5	1209.22	107.8
GR 1209.57	108.4	1209.63	108.5	1209.62	108.6	1209.62	108.7	1209.58	108.9
GR 1209.57	109.1	1209.45	109.5	1209.41	109.6	1209.23	110.2	1209.32	110.4
GR 1209.36	110.6	1209.44	110.8	1209.52	111.3	1209.48	111.6	1209.45	111.7
GR 1209.41	111.9	1209.4	111.9	1209.41	112.1	1209.42	112.3	1209.42	112.4
GR 1209.44	112.7	1209.57	113.2	1209.76	113.8	1209.93	114.2	1210.07	114.4
GR 1210.16	114.6	1210.2	114.6	1210.21	115.3	1210.28	115.8	1210.48	116
GR 1210.86	116.3	1210.91	116.4	1211.1	117.4	1211.12	117.6	1211.14	117.8
GR 1211.15	117.9	1211.19	119	1211.22	119.1	1211.27	119.2	1211.35	119.4
GR 1211.41	119.7	1211.59	120.2	1211.62	120.5	1211.64	120.8	1211.63	121.3
GR 1211.62	121.3	1211.4	121.9	1211.36	122	1211.27	122.5	1211.06	123.2
GR 1210.91	123.5	1210.96	123.9	1211.01	124.1	1211.13	124.3	1211.32	124.6
GR 1211.34	124.7	1211.65	125.8	1211.58	126.2	1211.02	127.4	1210.88	128
GR 1210.99	128.4	1211.43	129.1	1211.46	129.2	1211.49	129.3	1211.51	129.9
GR 1211.48	130	1211.45	130.2	1211.44	130.3	1211.4	130.4	1211.35	130.8
GR 1211.4	131.3	1211.38	131.6	1211.36	131.8	1211.36	131.9	1211.56	133
GR 1211.39	133.5	1211.37	133.6	1211.31	133.8	1211.26	134	1211.24	134.1
GR 1211.18	134.4	1210.95	135.1	1210.94	135.2	1210.95	135.8	1210.96	136.1
GR 1211.01	136.3	1211.04	136.3	1211.16	136.5	1211.24	136.6	1211.4	137
GR 1211.44	137.3	1211.44	138.4	1211.43	138.7	1211.42	139.1	1211.4	139.3
GR 1211.34	139.6	1211.32	139.8	1211.28	140	1211.28	140.2	1211.29	140.4
GR 1211.31	140.8	1211.3	140.8	1211.19	141.5	1211.1	141.9	1211.09	141.9
GR 1211.08	141.9	1211	142.2	1210.95	142.4	1210.94	142.6	1210.94	143
GR 1211.17	143.7	1211.18	144.1	1211.1	144.5	1211.09	144.7	1211.08	144.9
GR 1211.08	145.2	1211.07	145.6	1211.25	146.7	1211.3	147.4	1211.3	147.5

GR 1211.25	147.9	1211.22	148	1211.14	148.2	1211.11	148.4	1211.07	148.6
GR 1211.04	148.7	1210.95	149	1210.91	149.1	1210.88	149.4	1210.82	149.7
GR 1210.92	150.2	1210.95	150.5	1210.95	150.6	1210.96	150.8	1210.96	150.9
GR 1210.99	151	1211.01	151.2	1211	151.3	1211.02	151.6	1211.04	151.9
GR 1211.04	152	1211.09	152.2	1211.16	152.4	1211.2	152.4	1211.2	152.7
GR 1211.21	153	1211.07	153.6	1210.99	153.8	1210.97	153.8	1210.91	154.1
GR 1211	154.7	1211.01	154.9	1211.02	155.2	1211.03	155.3	1211.07	155.6
GR 1211.08	155.7	1211.09	156.1	1211.09	156.3	1211.08	156.5	1211.05	156.7
GR 1211.03	156.8	1211.02	156.9	1211.01	157	1210.98	157.2	1210.97	157.4
GR 1211.12	158.1	1211.17	158.6	1211.17	158.7	1211.14	159	1211.14	159.1
GR 1211.05	159.5	1211.03	159.7	1211.18	160.8	1211.17	161	1211.1	161.3
GR 1211.09	161.3	1211.07	161.7	1211.05	161.9	1210.91	162.4	1210.98	163.9
GR 1210.87	164.6	1210.86	164.7	1210.85	164.7	1210.87	164.7	1211	165.1
GR 1211.08	165.2	1211.16	165.4	1211.26	165.7	1211.3	165.8	1211.32	165.9
GR 1211.3	166.2	1211.29	166.3	1211.28	166.6	1211.29	166.8	1211.29	166.9
GR 1211.12	167.3	1211.1	167.5	1211.03	167.7	1211.01	167.8	1210.99	168
GR 1210.98	168.1	1210.97	168.4	1211.03	169.3	1211.01	169.7	1210.97	169.9
GR 1210.92	170.2	1211.17	171.4	1211.17	171.6	1210.95	172.6	1210.94	172.8
GR 1210.92	172.9	1210.91	173	1210.9	173.3	1210.92	173.6	1210.93	173.7
GR 1211.12	174.4	1211.11	174.8	1211.23	175.8	1211.25	175.9	1211.35	176.2
GR 1211.38	176.3	1211.4	176.3	1211.43	176.5	1211.44	176.7	1211.52	176.9
GR 1211.68	177.5	1211.68	177.6	1211.7	177.8	1211.7	178	1211.61	178.6
GR 1211.47	178.9	1211.4	179.1	1211.39	179.3	1211.41	179.7	1211.42	179.7
GR 1211.75	180.8	1211.73	181.2	1211.72	181.3	1211.69	181.5	1211.72	181.9
GR 1211.68	182.5	1211.87	183	1211.88	183	1211.9	183.1	1212.04	183.4
GR 1212.16	183.8	1212.23	184.1	1212.23	184.2	1212.23	184.5	1212.26	184.7
GR 1212.24	184.9	1212.29	185.1	1212.3	185.2	1212.31	185.3	1212.32	185.3
GR 1212.34	186	1212.34	186.2	1212.34	186.4	1212.35	186.4	1212.33	186.8
GR 1212.33	186.9	1212.38	187.5	1212.29	187.9	1212.29	188	1212.41	188.6
GR 1212.43	188.8	1212.43	189	1212.42	189.1	1212.4	189.4	1212.39	189.8
GR 1212.4	190.1	1212.39	190.2	1212.37	190.5	1212.36	190.5	1212.34	190.8
GR 1212.34	190.9	1212.84	194.1	1212.98	195.6	1212.89	196.5	1212.81	196.8
GR 1212.79	196.9	1212.78	196.9	1212.74	197.2	1212.74	197.6	1212.71	197.9
GR 1212.71	198	1212.71	198.1	1212.68	198.6	1212.74	199.2	1212.99	199.9
GR 1213.05	200								

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NC	0.01	0.01	0.01						
X1 TischerReach8_2	450	97.9	107.1	0.0	0.0	0.0	0.0	0.0	0.0
GR 1202.42	0	1202.47	0.9	1202.45	1.5	1202.28	2.7	1202.29	3.8
GR 1202.21	4.4	1202.19	6.7	1202.05	8.7	1202.08	9	1202.26	9.7
GR 1202.31	10.2	1202.03	11.3	1202.05	12.5	1202.18	13.6	1202.08	14.2
GR 1202.19	14.8	1202.15	15.4	1201.88	16.6	1201.88	17.1	1201.97	17.7
GR 1202.02	18.8	1202.17	20	1202.01	20.6	1202	21	1202.18	21.7
GR 1202.2	22.1	1202.09	22.7	1202.02	23.5	1202.1	24.3	1202.19	24.7
GR 1202.2	25.2	1201.97	25.8	1201.88	26.5	1201.89	26.9	1202.03	27.5
GR 1202.06	28.3	1202.06	28.7	1201.93	29.2	1202.01	30.9	1202	31.6
GR 1202.19	32.7	1201.88	33.7	1201.94	34.5	1201.91	34.9	1201.85	35.2
GR 1201.93	36.3	1201.98	38.7	1202.15	39.6	1202.25	40.7	1202.19	41.8
GR 1202.3	42.9	1202.16	43.7	1202.06	44	1202.02	44.8	1202.25	45.7
GR 1202.47	46.2	1202.53	46.5	1201.9	48.3	1201.59	48.8	1201.68	49.4
GR 1201.66	50.7	1202	51.7	1201.87	52.8	1201.93	53.5	1201.81	54.6
GR 1201.84	55	1201.86	55.2	1201.85	55.8	1201.64	57.5	1201.69	57.9
GR 1201.7	58.3	1201.67	59	1202.2	60.5	1202.2	60.7	1202.15	60.9
GR 1201.73	61.5	1201.72	61.6	1201.72	61.7	1202.06	62.7	1202.08	63.4
GR 1201.93	64.4	1201.72	64.9	1201.89	65.7	1201.84	66.2	1201.7	66.7
GR 1201.98	67.5	1202.1	67.7	1202.16	67.8	1202.19	67.9	1202.23	68.2

GR 1202.23	68.6	1202.25	68.7	1202.25	68.9	1202.26	69	1202.3	69.3
GR 1202.35	69.5	1202.37	69.6	1202.37	69.7	1202.03	70.8	1202.02	70.8
GR 1202	70.9	1201.96	71.1	1201.95	71.4	1202.07	71.9	1202.11	72.6
GR 1202.23	73.1	1202.27	73.6	1202.28	73.7	1202.27	73.7	1202.22	74
GR 1202.55	74.7	1202.55	74.8	1202.54	74.8	1202.28	75.1	1202.05	75.5
GR 1201.98	75.7	1201.65	77	1201.59	77.7	1201.64	78.7	1201.71	79.1
GR 1201.74	79.2	1201.76	79.5	1201.74	79.7	1201.86	80.6	1201.72	81.7
GR 1201.89	82.7	1201.88	83.5	1201.79	83.9	1201.77	84.1	1201.76	84.3
GR 1201.73	84.5	1201.72	84.7	1201.73	84.7	1201.79	85	1201.72	86.4
GR 1201.74	86.5	1201.83	87.3	1202.04	88.1	1202.07	89.1	1201.97	90
GR 1201.98	90.2	1202.04	90.5	1202.05	91	1202.16	91.6	1202.16	91.7
GR 1202.18	92	1202.31	92.7	1202.17	93.3	1202.25	94.2	1202.19	94.4
GR 1202.18	94.9	1202.05	95.6	1202.08	95.7	1202.14	96	1202.13	96.8
GR 1202.29	97.1	1202.33	97.3	1202.32	97.5	1202.34	97.9	1202.29	98.5
GR 1202.26	98.6	1202.22	98.7	1202.16	98.9	1202.14	99.1	1202.12	99.3
GR 1202.11	99.7	1202.14	100	1202.16	100.2	1202.14	100.7	1202.14	100.8
GR 1201.86	101.4	1201.42	102	1201.31	102.5	1201.29	102.6	1201.3	102.7
GR 1201.31	103	1201.38	103.1	1202.21	103.7	1202.54	104.4	1202.76	105.4
GR 1202.94	107.1	1202.81	107.7	1202.72	108.3	1202.73	108.5	1202.7	108.7
GR 1202.7	108.8	1202.71	108.9	1202.75	109.1	1202.78	109.2	1202.81	109.5
GR 1202.82	109.6	1202.8	109.7	1202.78	109.9	1202.77	110	1202.8	111.2
GR 1202.63	111.8	1202.62	111.8	1202.55	112.1	1202.5	112.3	1202.57	112.9
GR 1202.38	114.1	1202.27	114.3	1202.19	114.5	1202.15	114.6	1202.15	114.7
GR 1202.14	115.2	1202.15	115.4	1202.16	115.7	1202.16	115.8	1202.15	115.8
GR 1202.16	115.9	1202.17	116.1	1202.12	116.7	1202.1	117	1202.12	117.5
GR 1201.84	119.4	1201.81	121	1201.65	121.7	1201.61	122.2	1201.65	122.4
GR 1201.72	122.7	1201.86	123.5	1202.37	125	1202.29	125.6	1202.27	125.7
GR 1202.24	125.7	1202.11	126	1202.04	126.2	1201.97	126.4	1201.94	126.7
GR 1201.92	126.8	1201.85	127.1	1201.79	127.3	1201.76	127.5	1201.69	127.9
GR 1201.66	128.2	1201.72	129	1201.81	129.3	1201.87	129.5	1202.15	130.8
GR 1202.07	131.2	1202.04	131.4	1202.01	131.7	1201.98	131.9	1201.9	132.3
GR 1201.89	132.3	1201.82	132.5	1201.79	132.7	1201.8	133	1201.85	133.7
GR 1201.8	134.1	1201.84	134.7	1201.79	135.5	1201.8	136.3	1201.79	136.4
GR 1201.78	136.6	1201.77	136.7	1201.84	137.7	1201.85	138.1	1201.83	138.3
GR 1201.78	138.5	1201.67	138.9	1201.79	139.6	1201.76	139.9	1201.74	140
GR 1201.73	140.3	1201.72	140.5	1201.72	140.6	1201.72	140.7	1201.75	141
GR 1201.74	141.2	1201.9	141.8	1201.69	142.4	1201.65	142.5	1201.61	142.7
GR 1201.72	144.1	1201.66	144.7	1201.7	145.4	1201.81	146.2	1201.83	146.4
GR 1201.84	146.5	1201.82	146.9	1201.84	147	1201.86	147.3	1201.9	147.6
GR 1201.95	147.8	1201.89	148.1	1201.74	148.6	1201.72	148.7	1201.72	148.8
GR 1201.71	149.5	1201.74	149.8	1201.88	151	1201.85	151.7	1201.73	152
GR 1201.71	152.2	1201.72	152.8	1201.61	153.3	1201.65	153.5	1201.83	153.8
GR 1201.97	154.5	1201.96	154.6	1201.92	154.8	1201.88	154.9	1201.87	155.1
GR 1201.79	155.3	1201.76	155.5	1201.71	155.6	1201.71	155.8	1201.56	156.8
GR 1201.61	157.4	1201.68	157.5	1201.79	157.8	1201.83	157.9	1201.96	158.2
GR 1201.98	158.2	1202.02	158.5	1202.02	158.6	1201.97	158.8	1201.81	159.1
GR 1201.67	159.3	1201.34	160.1	1201.22	160.8	1201.23	160.8	1201.29	160.9
GR 1201.44	161.2	1201.63	161.4	1201.73	161.5	1201.93	161.8	1202.04	161.9
GR 1202.09	162	1202.18	162.3	1202.26	162.6	1202.21	162.8	1202.03	163
GR 1201.98	163.1	1201.92	163.4	1201.94	163.6	1201.94	163.7	1201.93	163.7
GR 1201.92	163.8	1201.77	164.1	1201.67	164.3	1201.62	164.5	1201.55	164.8
GR 1201.53	164.8	1201.52	165	1201.51	165.2	1201.59	165.6	1201.59	165.8
GR 1201.57	165.9	1201.55	166	1201.52	166.3	1201.48	166.6	1201.48	166.7
GR 1201.69	167.8	1201.73	168.1	1201.51	168.8	1201.46	168.9	1201.42	168.9
GR 1201.24	169.2	1201.14	169.6	1201.14	169.8	1201.19	170	1201.38	170.3
GR 1201.49	170.8	1201.56	171.1	1201.56	171.2	1201.56	171.4	1201.47	171.8

GR 1201.59 172.4 1201.6 172.5 1201.62 172.8 1201.74 173.6 1201.72 173.8  
GR 1201.69 174 1201.68 174.1 1201.87 175.3 1201.81 175.8 1201.8 175.8  
GR 1201.91 176.5 1201.93 176.8 1201.74 177.3 1201.67 177.6 1201.7 177.6  
GR 1201.77 177.8 1201.85 178 1201.91 178.1 1201.93 178.4 1201.96 178.6  
GR 1201.97 178.7 1201.96 178.7 1201.96 178.8 1201.84 179.3 1201.75 179.5  
GR 1201.61 179.8 1201.58 179.8 1201.56 179.9 1201.53 180 1201.48 180.2  
GR 1201.41 180.5 1201.41 180.6 1201.44 180.8 1201.55 181.3 1201.56 181.4  
GR 1201.6 181.6 1201.61 181.7 1201.73 182.2 1201.71 182.4 1201.63 182.7  
GR 1201.63 182.8 1201.62 182.8 1201.43 183.9 1201.63 185.1 1201.6 185.5  
GR 1201.59 185.6 1201.48 186.2 1201.53 186.4 1201.59 186.8 1201.6 189.4  
GR 1201.64 189.6 1201.67 189.8 1201.73 190.1 1201.73 190.3 1201.7 190.5  
GR 1201.58 190.8 1201.57 190.8 1201.56 190.9 1201.53 191.2 1201.58 191.6  
GR 1201.66 191.8 1201.71 191.9 1201.73 192 1201.71 193 1201.81 193.7  
GR 1201.82 193.7 1201.86 194.3 1201.75 194.8 1201.74 194.9 1201.45 195.9  
GR 1201.36 197.2 1201.22 197.8 1201.36 198.3 1201.64 198.8 1201.71 198.9  
GR 1201.74 198.9 1201.78 199.1 1201.83 199.2 1201.84 199.5 1201.56 200

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NC 0.11 0.11 0.06

XI TischerReach8\_02 447 224.1 229.7 0.0 0.0 0.0 3.28084 0.0

GR 1221.76 0 1221.1 2.4 1220.7 3.1 1220.3 4.2 1220.25 5.7  
GR 1219.23 8.1 1219.04 9.8 1219.06 10.9 1218.5 12.7 1218.4 14.4  
GR 1217.9 16.1 1217.9 17.9 1217.43 20.1 1217.39 21.2 1216.73 23.7  
GR 1216.57 26 1215.98 29.8 1215.25 31.5 1214.73 33.7 1214.47 35.5  
GR 1213.59 37.7 1213.05 41.7 1212.62 42.9 1212.76 44.6 1212.25 46.5  
GR 1212.15 49.2 1211.94 50.3 1211.9 51.4 1211.55 52.6 1211.63 54.3  
GR 1211.16 56 1211.02 57.3 1210.22 60.7 1209.56 62.3 1209.93 63.4  
GR 1209.63 63.9 1209.22 66.1 1209.29 66.9 1209.15 67.4 1208.8 67.9  
GR 1208.52 69.1 1208.54 70.2 1208.31 70.9 1208.43 72.4 1208.16 75.3  
GR 1208.17 77.9 1207.69 79.9 1207.59 80.9 1207.74 82 1207.51 82.8  
GR 1206.89 83.9 1206.74 84.5 1206.72 85.6 1206.52 86.2 1206.47 87.5  
GR 1205.6 89.6 1205.56 91.3 1205.66 91.9 1205.56 93 1205.11 94.7  
GR 1204.86 99.2 1204.98 99.9 1204.58 101 1204.66 102.4 1204.5 103.3  
GR 1204.42 106.3 1204.1 107.8 1204.48 109 1204 110.7 1204.28 111.8  
GR 1203.84 113.5 1203.96 115.3 1203.77 116.4 1203.74 118.1 1203.43 119.2  
GR 1203.42 122.2 1202.76 124.4 1203.24 126.3 1202.91 127.8 1202.79 129.5  
GR 1202.84 131.7 1202.65 132.9 1202.66 134.7 1202.84 136.5 1202.45 138  
GR 1202.4 139.1 1202.56 139.8 1202.5 140.9 1202.59 142 1202.51 143.1  
GR 1202.57 145.5 1202.38 147.2 1202.65 149.3 1202.97 150.6 1202.89 153.1  
GR 1203 154.6 1204.08 157.4 1203.92 158.6 1204.09 159.7 1203.98 160.4  
GR 1203.99 161.4 1203.68 163.7 1203.77 165.4 1203.66 166 1203.4 166.5  
GR 1203.62 168.9 1203.52 170.5 1203.72 171.5 1203.75 173.4 1203.55 175.7  
GR 1203.17 177.3 1203.17 178.4 1202.9 179.6 1202.51 180.2 1202.63 181.4  
GR 1202.42 182.4 1202.51 183.3 1202.47 185.1 1202.38 185.9 1201.79 187.6  
GR 1201.85 189.3 1201.72 189.9 1202.18 190.6 1202.22 191 1202.09 192  
GR 1202.3 192.8 1202.25 194 1202.47 195.1 1202.81 196.1 1202.74 196.7  
GR 1202.4 197.3 1201.89 197.9 1201.88 198 1202.42 199.1 1202.42 199.6  
GR 1202.12 200.7 1202.79 203.9 1202.8 204.2 1202.7 204.5 1202.65 204.6  
GR 1202.62 204.7 1202.9 205.9 1202.77 207 1202.91 208.7 1202.69 209.3  
GR 1202.66 209.7 1202.66 209.8 1202.88 210.4 1202.86 211.6 1203.22 213.9  
GR 1203.16 214.9 1202.96 215.7 1203.03 216.1 1203.14 216.3 1203.18 216.4  
GR 1203.46 217 1203.48 217.3 1203.41 217.8 1203.62 218.6 1203.5 219.5  
GR 1203.55 219.7 1203.62 220.1 1203.59 221.2 1203.44 224.1 1202.64 225.6  
GR 1202.55 225.8 1202.47 226.4 1203.14 227.6 1203.54 229.7 1203.31 234.1  
GR 1203.26 234.5 1203.14 234.9 1203.25 236.6 1203.03 237.8 1203.04 237.8  
GR 1203.14 238.3 1203.15 238.9 1203.16 239 1203.11 240.1 1203.08 240.2  
GR 1203.06 240.4 1203.03 240.6 1203.01 240.7 1202.95 241.2 1203.08 242



GR 1202.38 243.7 1202.46 244 1202.47 244 1202.56 244.4 1202.92 245.1  
 GR 1203.35 247 1203.16 249.2 1203.2 249.6 1203.37 250.3 1203.23 250.7  
 GR 1203.13 251.4 1203.44 252.9 1203.47 253.2 1203.48 253.3 1203.49 253.6  
 GR 1203.53 254.3 1203.51 254.4 1203.51 254.5 1203.39 254.9 1203.2 255.1  
 GR 1203.02 255.4 1202.81 256.6 1203.5 257.6 1203.52 257.7 1203.54 257.7  
 GR 1203.59 258.1 1203.62 258.3 1203.29 259.9 1202.63 261.7 1203.16 263.6  
 GR 1203.47 266.8 1203.22 268 1202.82 268.7 1202.71 269.5 1202.78 270.6  
 GR 1202.65 271.2 1202.7 271.7 1203.03 273.1 1202.72 275.3 1202.79 276.1  
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 GR 1203.44 286.2 1203.67 287.4 1203.25 288.6 1203.05 290.2 1203.03 291.2  
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 GR 1203.04 293.4 1203.03 293.6 1202.97 294.1 1203.14 295.3 1203.3 298.2  
 GR 1203.2 298.6 1203.19 299.7 1203.34 300.5 1203.35 300.6 1203.38 300.8  
 GR 1203.39 301 1203.02 302.2 1203.36 304.5 1203.34 304.8 1203.29 305.2  
 GR 1203.14 305.6 1203.13 305.6 1203.51 307.4 1203.27 310.1 1203.43 311.1  
 GR 1203.5 311.3 1203.72 311.8 1203.79 312.4 1203.62 313.9 1203.62 314.1  
 GR 1203.64 314.4 1203.66 314.7 1203.73 315.3 1203.88 315.7 1203.97 315.8  
 GR 1203.66 317 1203.81 318.1 1203.69 319.2 1203.9 322.1 1203.72 325.8  
 GR 1203.84 326.6 1203.87 326.7 1203.81 327 1203.67 327.8 1203.84 328.4  
 GR 1203.79 331.2 1203.64 332.1 1203.6 332.4 1203.61 332.5 1203.63 332.7  
 GR 1203.65 332.8 1203.66 332.9 1203.6 333.2 1203.58 333.3 1203.52 333.5  
 GR 1203.52 333.6 1203.88 335.2 1203.52 336.8 1203.51 336.9 1203.5 336.9  
 GR 1203.48 337.3 1203.46 337.5 1203.46 337.6 1203.45 337.9 1203.88 339.1  
 GR 1203.92 339.5 1203.89 340 1203.87 340.2 1203.93 340.9 1203.92 341  
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 GR 1204.19 347.2 1204.3 347.6 1204.34 347.8 1204.73 352.4 1205.33 355.6  
 GR 1205.63 360.9 1205.65 361 1205.73 361.2 1205.79 361.6 1205.74 361.8  
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 GR 1205.35 388.6 1205.36 388.8 1205.35 388.8 1205.03 389.9 1205.25 390.5  
 GR 1205.73 395.1 1205.79 395.2 1205.86 395.5 1205.89 395.6 1206.26 396.2  
 GR 1206.31 396.6 1206.39 396.8 1206.43 396.9 1206.62 397.3 1206.65 398.1  
 GR 1206.62 398.4 1206.5 398.8 1206.42 399.1 1206.17 399.5 1206.06 400.2  
 GR 1206.5 401.4 1206.58 401.7 1206.64 401.9 1207.16 403 1207.02 405.1  
 GR 1207.6 408.2 1207.47 410.4 1207.53 410.6 1207.68 410.9 1207.87 412.2  
 GR 1208.2 412.7 1208.24 412.8 1208.44 413.3 1208.49 413.8 1208.5 415.6  
 GR 1208.88 417.1 1209.02 418.4 1209.13 418.7 1209.17 418.8 1209.23 419  
 GR 1209.25 419.1 1209.28 419.2 1209.34 419.4 1209.4 420.7 1210.02 422.4  
 GR 1210.43 425.1 1210.44 426.1 1211.33 428.5 1211.6 430.4 1211.91 431.2  
 GR 1212 431.6 1212 431.7 1212.01 431.9 1212.06 432.3 1212.09 432.6  
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 GR 1212.51 434.4 1212.53 434.5 1212.58 434.8 1212.61 435 1212.66 435.1  
 GR 1212.78 435.5 1212.8 435.6 1212.88 436 1212.9 436.1 1212.97 436.4  
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 GR 1213.3 437.9 1213.32 438.2 1213.3 438.4 1213.33 438.6 1213.34 438.9  
 GR 1213.35 439 1213.52 440 1213.53 440.1 1213.55 440.2 1213.59 440.4  
 GR 1213.68 440.8 1213.73 441 1213.76 441.2 1213.77 441.2 1213.77 441.4  
 GR 1213.78 441.5 1213.76 441.8 1213.76 441.9 1213.75 442.1 1213.72 442.3  
 GR 1213.69 442.4 1213.66 443 1213.68 443.1 1213.81 443.5 1213.88 443.7  
 GR 1213.93 444 1213.98 444.1 1214 444.2 1214.1 444.5 1214.19 444.8  
 GR 1214.26 445.6 1214.25 445.6532

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 NC 0.11 0.11 0.06  
 X1 TischerReach8\_3 126 23.5 35.4 0.0 0.0 0.0 3.28084 0.0

GR 1194.05	0	1193.39	0.7	1192.94	1.3	1192.71	1.8	1192.5	2.3
GR 1192.18	3.3	1192.16	3.6	1192.16	3.8	1192.1	4.2	1191.73	5.9
GR 1191.69	6.2	1191.65	6.9	1191.74	7.5	1191.7	8	1191.61	8.5
GR 1191.6	9	1191.51	9.9	1191.48	10	1191.31	10.6	1191.22	11.1
GR 1191.18	11.6	1191.07	12.1	1191.09	12.4	1191.09	12.8	1191.02	13.1
GR 1191.03	13.7	1190.93	14.4	1190.78	15.3	1190.75	15.7	1190.75	16.3
GR 1190.78	16.5	1190.79	16.6	1190.84	17.2	1190.88	17.7	1190.92	17.8
GR 1191.29	18.3	1191.35	18.5	1191.39	18.7	1191.42	18.8	1191.44	19.2
GR 1191.45	19.3	1191.45	19.4	1190.57	19.9	1190.59	20.1	1190.62	20.4
GR 1190.75	20.9	1190.84	21.4	1190.81	21.9	1190.73	22.5	1190.34	23.5
GR 1190.24	23.7	1190.17	23.8	1190.03	24	1189.56	24.6	1189.27	25.1
GR 1188.9	25.6	1188.41	26.1	1188.34	26.3	1188.12	26.6	1188.16	27.1
GR 1188.19	27.6	1188.18	28.2	1188.19	28.3	1188.17	28.7	1188.13	28.9
GR 1188.06	29.7	1188.07	29.9	1188.08	30	1188.1	30.2	1188.11	30.3
GR 1188.14	31.6	1188.22	32.4	1188.22	32.8	1188.48	33.2	1188.57	33.3
GR 1189.35	33.8	1189.66	34.4	1190.03	35.4	1190.07	35.7	1190.11	35.9
GR 1190.02	36.4	1190	36.5	1189.95	36.6	1189.9	36.9	1189.88	37
GR 1189.94	37.1	1190.05	37.3	1190.59	38.5	1190.61	38.6	1190.68	38.9
GR 1190.67	39.5	1190.59	40.1	1190.39	40.6	1190.14	41	1190.07	41.1
GR 1190.02	41.3	1190	41.4	1189.96	41.6	1189.93	41.8	1189.91	42
GR 1189.9	42.1	1189.9	42.2	1189.91	42.4	1189.91	42.6	1189.92	42.6
GR 1189.93	42.7	1190	43	1190.14	43.8	1190.18	44.2	1190.19	44.7
GR 1190.22	44.8	1190.32	45.2	1190.32	45.5	1190.33	45.5	1190.34	45.9
GR 1190.37	46.2	1190.37	46.3	1190.27	46.8	1190.29	46.9	1190.3	47.1
GR 1190.32	47.7	1190.33	47.8	1190.59	48.3	1190.82	48.9	1190.83	49.1
GR 1190.86	49.5								

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NC 0.11	0.11	0.06							
XI Tributary10_1	404	39.5	43.9	0.0	0.0	0.0	3.28084	0.0	
GR 1399.43	0	1399.44	0.2	1399.39	0.8	1399.37	1.6	1399.33	1.8
GR 1399.33	2.3	1399.31	2.7	1399.37	3	1399.39	3.3	1399.32	4.8
GR 1399.15	5.9	1399.1	6.5	1399	6.7	1398.93	6.9	1398.94	7.1
GR 1398.89	7.3	1398.9	7.5	1398.86	7.6	1398.87	8	1398.86	8.3
GR 1398.65	9.1	1398.61	9.1	1398.44	9.4	1398.3	9.7	1398.24	9.8
GR 1398.15	9.9	1398.02	10.3	1398	10.5	1397.88	11.2	1397.84	11.6
GR 1397.86	12.2	1397.93	13	1397.95	13.3	1397.92	13.7	1397.93	14.1
GR 1397.9	14.7	1397.8	15.1	1397.78	15.4	1397.81	15.5	1397.85	15.8
GR 1397.87	16.2	1397.88	16.4	1397.86	16.5	1397.84	16.6	1397.85	16.9
GR 1397.87	17.2	1397.88	17.3	1397.89	17.4	1397.91	17.6	1397.91	18.3
GR 1397.89	18.5	1397.92	19.2	1397.87	19.4	1397.81	19.8	1397.82	20.1
GR 1397.91	20.5	1397.9	21.1	1397.95	21.7	1398.04	22.2	1398.05	22.4
GR 1398.17	22.9	1398.18	23	1398.25	23.3	1398.32	23.6	1398.44	24
GR 1398.49	24.4	1398.53	24.5	1398.59	24.7	1398.66	24.9	1398.74	25.1
GR 1398.9	25.4	1398.92	25.5	1399	25.8	1399.14	26.1	1399.15	26.2
GR 1399.18	26.3	1399.37	26.8	1399.38	26.9	1399.53	27.4	1399.71	27.9
GR 1399.75	28.1	1399.9	28.7	1399.93	28.7	1400.09	29.2	1400.13	29.3
GR 1400.13	29.4	1400.14	29.4	1400.19	29.7	1400.24	30	1400.25	30.4
GR 1400.28	30.6	1400.34	31.8	1400.34	31.9	1400.31	32.5	1400.3	32.6
GR 1400.26	32.9	1400.25	33.2	1400.21	33.3	1400.17	33.4	1400.12	33.6
GR 1400.09	33.8	1400.04	34	1399.95	34.2	1399.9	34.4	1399.86	34.4
GR 1399.66	34.7	1399.35	35.1	1399.34	35.1	1399.29	35.1	1398.83	35.4
GR 1398.3	35.8	1397.44	36.3	1395.42	37.6	1393.62	38.6	1393.3	38.9
GR 1393.21	39	1393.11	39.1	1392.84	39.5	1392.6	39.9	1392.53	40.1
GR 1392.49	40.2	1392.33	40.7	1392.32	40.8	1392.29	41	1392.28	41.1
GR 1392.27	41.4	1392.27	41.5	1392.28	41.5	1392.29	41.8	1392.33	42.1
GR 1392.47	42.5	1392.5	42.7	1392.58	43.2	1392.58	43.3	1392.59	43.3

GR 1392.64	43.6	1392.68	43.9	1392.69	44	1392.61	44.3	1392.53	44.6
GR 1392.49	44.7	1392.44	44.8	1392.41	45	1392.39	45.2	1392.38	45.4
GR 1392.34	45.6	1392.31	45.7	1392.29	45.9	1392.27	46.1	1392.23	46.4
GR 1392.23	46.5	1392.28	46.8	1392.29	46.9	1392.35	47.2	1392.34	47.5
GR 1392.31	47.8	1392.29	47.9	1392.29	48	1392.33	48.2	1392.34	48.4
GR 1392.35	48.8	1392.34	49	1392.33	49	1392.24	49.3	1392.16	49.7
GR 1392.1	49.8	1392.03	50	1391.87	50.4	1391.85	50.5	1391.76	50.7
GR 1391.73	51	1391.7	51.1	1391.67	51.3	1391.6	51.4	1391.59	51.6
GR 1391.57	51.8	1391.58	52.1	1391.58	52.2	1391.59	52.5	1391.62	52.9
GR 1391.67	53.2	1391.71	53.5	1391.73	53.6	1391.75	53.7	1391.85	54.1
GR 1392.12	54.8	1392.88	55.7	1393.09	56	1393.1	56.1	1393.11	56.1
GR 1393.18	56.4	1393.2	56.7	1393.2	56.8	1393.25	57.1	1393.29	57.3
GR 1393.34	57.5	1393.41	57.7	1393.44	57.9	1393.46	57.9	1393.53	58.2
GR 1393.62	58.6	1393.63	58.6	1393.65	58.7	1393.7	58.9	1393.76	59.2
GR 1393.77	59.3	1393.79	59.4	1393.86	59.6	1394	60	1394.11	60.2
GR 1394.19	60.3	1394.27	60.5	1394.31	60.7	1394.41	61	1394.42	61.1
GR 1394.43	61.1	1394.5	61.4	1394.59	61.6	1394.64	61.8	1394.65	61.8
GR 1394.84	62.1	1394.97	62.4	1395.01	62.5	1395.08	62.6	1395.29	62.8
GR 1395.46	63	1395.65	63.2	1395.83	63.4	1395.93	63.6	1395.99	63.7
GR 1396.14	63.9	1396.33	64.2	1396.35	64.3	1396.37	64.3	1396.54	64.6
GR 1396.57	64.6	1396.79	64.9	1396.83	65	1396.87	65	1397.1	65.3
GR 1397.25	65.6	1397.33	65.7	1397.43	65.8	1397.59	66	1397.72	66.2
GR 1397.87	66.4	1398.02	66.7	1398.12	66.8	1398.3	67.1	1398.53	67.5
GR 1398.54	67.5	1398.55	67.5	1398.75	67.8	1398.94	68.1	1398.98	68.2
GR 1399.02	68.3	1399.16	68.5	1399.29	68.7	1399.36	68.9	1399.43	69.1
GR 1399.51	69.3	1399.61	69.4	1400.24	70	1401.1	70.7	1401.14	70.7
GR 1401.19	70.7	1401.69	71	1402.03	71.3	1402.14	71.4	1402.26	71.5
GR 1402.64	71.9	1402.8	72.1	1403.02	72.3	1403.13	72.5	1403.62	73.1
GR 1403.8	73.9	1403.91	74.2	1403.99	74.5	1404.02	74.6	1404.05	74.8
GR 1404.07	75	1404.09	75.1	1404.13	75.3	1404.19	75.7	1404.21	75.7
GR 1404.27	76	1404.31	76.4	1404.36	76.7	1404.4	77	1404.41	77.1
GR 1404.42	77.2	1404.45	77.4	1404.47	77.6	1404.5	77.8	1404.54	78.2
GR 1404.56	78.3	1404.61	78.5	1404.68	78.8	1404.69	78.9	1404.7	78.9
GR 1404.79	79.3	1404.86	79.5	1404.87	79.6	1404.88	79.6	1404.95	79.9
GR 1405	80.2	1405.03	80.3	1405.07	80.4	1405.18	80.8	1405.24	81
GR 1405.31	81.2	1405.34	81.4	1405.37	81.5	1405.43	81.7	1405.53	82.1
GR 1405.54	82.1	1405.57	82.2	1405.62	82.4	1405.7	82.7	1405.71	82.8
GR 1405.73	82.9	1405.8	83.1	1405.86	83.4	1405.89	83.5	1405.94	83.7
GR 1405.98	83.9	1406.02	84	1406.12	84.5	1406.13	84.6	1406.15	84.6
GR 1406.24	84.9	1406.31	85.2	1406.34	85.3	1406.35	85.3	1406.47	85.6
GR 1406.57	85.9	1406.59	86	1406.62	86.1	1406.7	86.3	1406.77	86.5
GR 1406.8	86.7	1406.83	86.9	1406.84	87.1	1406.85	87.2	1406.91	87.4
GR 1406.99	87.7	1407	87.8	1407.01	87.8	1407.08	88.1	1407.09	88.1
GR 1407.17	88.4	1407.18	88.5	1407.19	88.5	1407.22	88.8	1407.23	89.1
GR 1407.24	89.2	1407.28	89.3	1407.29	89.6	1407.25	89.9	1407.2	90.2
GR 1407.18	90.3	1407.17	90.4	1407.14	90.6	1407.09	91	1407.1	91.1
GR 1407.09	92	1407.08	92.3	1407.08	92.4	1407.09	92.8	1407.03	93.1
GR 1407.04	93.4	1407.05	93.5	1407.06	93.5	1407.17	94	1407.22	94.2
GR 1407.21	94.5	1407.2	94.8	1407.18	94.9	1407.16	95	1407.08	95.4
GR 1407.05	95.6	1407.02	95.8	1407.04	96	1407.04	96.1	1407.03	96.3
GR 1407.01	96.6	1407.02	96.7	1406.99	97	1406.98	97	1406.92	97.3
GR 1406.91	97.4	1406.9	97.4	1406.84	97.7	1406.8	98	1406.78	98.1
GR 1406.78	98.5	1406.79	98.6	1406.82	98.8	1406.9	99.1	1406.9	99.2
GR 1406.87	99.5	1406.84	99.9	1406.85	99.9	1406.86	100		

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NC 0.11 0.11 0.06

X1 Tributary10_2	129	19.3	30	0.0	0.0	0.0	3.28084	0.0
GR 1372.1 0	1372.08	0.5	1371.96	1.5	1371.69	2.6	1371.66	3.1
GR 1371.54 3.6	1371.47	4.1	1371.35	4.7	1371.19	5.6	1371.07	6
GR 1371.04 6.1	1371.02	7.1	1370.93	7.6	1370.82	8.2	1370.8	8.7
GR 1370.55 10.3	1370.47	10.7	1370.35	11.2	1370.34	11.7	1370.3	12.2
GR 1370.24 13.2	1370.11	13.8	1369.99	14.3	1369.89	14.8	1369.5	15.8
GR 1369.39 16.3	1369.38	16.3	1369.34	16.7	1369.34	16.8	1369.24	17.1
GR 1369.19 17.3	1369.1	17.5	1369.08	17.6	1368.98	17.8	1368.81	18.3
GR 1368.8 18.4	1368.78	18.8	1368.67	19.3	1368.51	19.5	1368.19	19.7
GR 1367.99 19.9	1367.3	20.4	1367.27	20.5	1367.09	21.4	1367.18	22.3
GR 1367.22 22.4	1367.26	22.6	1367.28	22.7	1367.33	22.9	1367.34	23.4
GR 1367.38 24	1367.34	24.4	1367.45	24.8	1367.49	25.1	1367.52	25.3
GR 1367.55 25.4	1367.56	25.7	1367.57	25.7	1367.59	26	1367.61	26.1
GR 1367.6 26.4	1367.61	26.5	1367.6	26.5	1367.51	26.9	1367.5	27
GR 1367.65 27.4	1367.66	27.5	1367.72	28	1367.8	28.2	1367.81	28.3
GR 1367.87 28.5	1367.96	28.7	1368.07	28.9	1368.15	29	1368.2	29.1
GR 1368.46 29.5	1368.68	30	1368.66	30.1	1368.64	30.4	1368.61	30.5
GR 1368.59 30.7	1368.58	30.8	1368.55	31	1368.4	31.6	1368.38	32
GR 1368.44 32.6	1368.45	32.6	1368.55	33	1368.59	33.1	1369.03	33.6
GR 1369.65 34.1	1369.9	34.2	1370.35	34.5	1371.29	35.1	1371.31	35.1
GR 1371.33 35.1	1371.98	35.6	1372.08	35.8	1372.22	36	1372.34	36.1
GR 1372.54 36.4	1372.75	36.6	1373.07	37.2	1373.11	37.2	1373.27	37.6
GR 1373.28 37.7	1373.29	37.7	1373.32	37.8	1373.44	38.1	1373.48	38.2
GR 1373.71 38.7	1373.88	39.2	1373.97	39.4	1374.13	39.7	1374.31	40.1
GR 1374.33 40.2	1374.35	40.2	1374.45	40.5	1374.55	40.7	1374.57	40.7
GR 1374.6 40.8	1374.75	41.1	1374.79	41.2	1375.69	42.6	1375.78	42.8
GR 1376.03 43.3	1376.12	43.7	1376.13	43.9	1376.11	44.06	113	
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NC 0.11	0.11	0.06						
X1 Tributary10_3	40	5.01	8.26	0.0	0.0	0.0	3.28084	0.0
GR 1331.54 0	1331.43	0.31	1331.34	0.49	1331.31	0.517	1331.14	0.67
GR 1330.75 1.09	1329.94	1.68	1329.74	1.87	1329.25	2.28	1328.67	2.84
GR 1328.08 3.46	1327.9	3.71	1327.68	4.06	1327.38	4.65	1327.09	5.01
GR 1326.83 5.25	1326.67	5.37	1326.35	5.56	1326.11	5.73	1326.01	5.84
GR 1325.98 6.09	1326.03	6.44	1326.01	6.82	1326.09	7.03	1326.12	7.18
GR 1326.23 7.4	1326.3	7.63	1326.94	8.26	1327.17	8.82	1327.36	9.35
GR 1327.55 9.71	1327.76	10.01	1327.85	10.17	1328.04	10.6	1328.23	11.1
GR 1328.25 11.2	1328.23	11.79	1328.39	12.39	1328.43	12.88	1328.43	12.88346
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NC 0.11	0.11	0.06						
X1 Tributary10_4	19	2.154	6.13	0.0	0.0	0.0	3.28084	0.0
GR 1314.07 0	1314.06	0.13	1313.9	0.63	1313.2	1.13	1311.99	1.63
GR 1310.65 2.13	1310.607	2.154	1309.76	2.63	1309.1	3.13	1308.99	3.63
GR 1309.3 4.13	1309.68	4.63	1309.89	4.96	1310.07	5.282	1310.08	5.3
GR 1310.52 6.13	1310.67	6.63	1310.77	7.13	1310.75	7.44		
;								
NC 0.11	0.11	0.06						
X1 Tributary9_1	75	14.3	19.6	0.0	0.0	0.0	3.28084	0.0
GR 1295.21 0	1295.12	0.3	1295.15	0.8	1295.13	1.3	1295.02	1.8
GR 1294.91 2.9	1295.03	3.9	1295.14	4.3	1295.38	4.9	1295.39	5.1
GR 1295.4 5.5	1295.33	5.9	1295.29	6.3	1295.22	6.7	1295.13	7.5
GR 1295.12 8.3	1295.16	8.7	1295.25	9.1	1295.39	9.6	1295.42	10.2
GR 1295.33 10.3	1295.09	10.7	1294.72	11.2	1294.26	11.7	1293.65	12.2
GR 1292.98 12.8	1292.25	13.3	1291.6	13.8	1290.88	14.3	1290.83	14.3
GR 1290.8 14.4	1290.43	14.9	1290.3	15.2	1290.05	15.9	1290.01	16
GR 1289.9 16.2	1289.82	16.4	1289.82	16.5	1289.8	16.8	1289.81	16.9

GR 1289.93 17.2 1289.96 17.2 1290.05 17.5 1290.38 18 1290.55 18.4  
GR 1290.82 19.2 1290.9 19.5 1290.92 19.5 1290.93 19.6 1290.96 19.7  
GR 1291.01 20 1291.02 20.1 1290.98 20.2 1290.95 20.4 1290.81 20.8  
GR 1290.72 21.1 1290.66 21.5 1290.63 21.6 1290.67 21.7 1290.81 22  
GR 1291.79 23.3 1292.1 23.6 1292.2 23.7 1292.52 24 1292.73 24.2  
GR 1293.35 24.8 1294.23 25.8 1294.72 26.3 1294.8 26.4 1295.15 26.8  
GR 1295.46 27.4 1295.56 27.6 1295.67 27.9 1295.71 28 1295.76 28.17232

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NC 0.11 0.11 0.06  
X1 Tributary8\_1 38 8.7 11.8 0.0 0.0 0.0 3.28084 0.0  
GR 1271.84 0 1271.84 0.2 1271.65 1.7 1271.7 2.2 1271.62 2.7  
GR 1270.97 3.7 1270.93 3.7 1270.34 4.2 1268.25 5.2 1267.4 5.7  
GR 1266.68 6.2 1266.62 6.4 1266.51 6.7 1266.82 7.7 1266.7 8.2  
GR 1266.35 8.7 1265.55 9.2 1264.36 10 1263.92 10.3 1263.98 10.4  
GR 1263.91 10.6 1263.94 10.8 1264.11 10.9 1264.98 11.2 1266.29 11.8  
GR 1267.51 12.3 1268.63 12.7 1268.91 12.8 1269.85 13.1 1271.92 13.8  
GR 1272.14 14 1272.39 14.3 1272.72 14.8 1273.25 15.3 1273.28 15.4  
GR 1273.53 15.8 1273.52 15.8 1273.36 16.21431

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NC 0.11 0.11 0.06  
X1 Tributary8\_2 43 6.3 8.8 0.0 0.0 0.0 3.28084 0.0  
GR 1229.55 0 1229.58 0.2 1229.55 1.2 1229.51 1.7 1229.38 2.2  
GR 1229.38 2.7 1229.25 3.2 1229.33 3.7 1229.36 4.2 1229.44 4.8  
GR 1229.47 5.3 1229.36 6.2 1229.36 6.3 1229.21 6.8 1228.99 7.3  
GR 1228.97 7.8 1229.02 7.9 1229.19 8.3 1229.4 8.8 1229.43 8.8  
GR 1229.44 8.9 1229.46 9.3 1229.45 10 1229.35 10.9 1229.47 11.4  
GR 1229.47 11.5 1229.44 11.7 1229.43 12.2 1229.41 12.4 1229.39 12.9  
GR 1229.36 13 1229.31 13.4 1229.14 13.9 1229.06 14.9 1229.1 15.3  
GR 1229.15 15.6 1229.26 16 1229.38 16.2 1229.49 16.4 1229.5 16.5  
GR 1229.51 16.5 1229.55 16.8 1229.56 17.00294

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NC 0.11 0.11 0.06  
X1 TischerReach10\_04 447 115 136.8 0.0 0.0 0.0 3.28084 0.0  
GR 1312.65 0 1311.84 2.2 1311.72 2.8 1311.17 4.4 1311.05 5.8  
GR 1311.15 6.5 1310.89 7 1310.7 8.6 1310.33 9.7 1310 11.3  
GR 1309.01 13.2 1308.49 14.4 1308.31 15.2 1307.83 16.1 1307.32 16.7  
GR 1306.17 18.6 1305.71 19.2 1305.4 19.8 1305.25 20.3 1304.82 20.8  
GR 1304.53 21.4 1303.93 21.9 1303.6 22.4 1303.59 23 1303.72 23.4  
GR 1303.77 24 1303.29 25.1 1303.43 26.2 1302.69 28.3 1303.52 29.6  
GR 1303.64 29.9 1303.8 31 1302.84 32.7 1302.79 33.1 1303.15 34.7  
GR 1302.81 35.7 1302.64 36.8 1302.73 37.3 1302.96 37.9 1302.84 38.4  
GR 1302.26 38.9 1302.3 39.5 1302.69 40.5 1302.69 41.1 1302.29 42.7  
GR 1302.69 44.3 1302.72 44.8 1302.14 46.9 1302.52 48.3 1302.52 48.7  
GR 1302.44 49 1302.02 49.6 1302.03 49.9 1302.24 50.3 1302.52 50.6  
GR 1302.52 50.8 1302.22 52.2 1301.97 52.8 1302.09 54.9 1301.85 56  
GR 1301.86 56.5 1301.57 57 1301.45 57.6 1301.72 58.1 1301.87 58.6  
GR 1301.92 59.2 1301.73 60.2 1301.73 60.6 1301.72 60.7 1301.47 61.8  
GR 1301.65 63.4 1301.59 63.9 1300.89 65.1 1300.91 65.6 1301.07 66.1  
GR 1300.74 67.8 1300.75 69 1300.59 70.9 1300.65 71.4 1300.51 72.5  
GR 1300.74 73.5 1300.44 75.1 1300.34 76.2 1300.47 77.1 1300.5 79.2  
GR 1300.79 80.3 1300.82 80.4 1300.81 80.7 1300.8 81 1300.47 82  
GR 1300.29 83.1 1300.32 84.2 1300.15 86.2 1300.21 86.8 1300.09 87.4  
GR 1300.03 88.4 1300.05 88.8 1300.25 89.9 1300.2 92.1 1300.3 92.7  
GR 1300.31 93.2 1300.2 93.6 1300.15 93.7 1300.12 96.3 1299.93 97.5  
GR 1300.03 99.1 1299.7 100.1 1299.79 100.6 1299.79 102.8 1299.86 102.9  
GR 1300 103.8 1300.12 105.3 1299.97 107 1300.2 108 1300.22 108.6

GR 1300.08	109.6	1299.88	110.2	1299.6	112.4	1300.26	114	1301.06	115
GR 1301.26	115.5	1300.97	116.1	1300.46	116.6	1299.67	117.1	1299.38	117.7
GR 1298.12	119.3	1297.85	119.8	1296.25	121.4	1296.12	122.5	1296.13	122.5
GR 1296.23	122.8	1296.29	123.5	1296.56	124.1	1297.58	125.1	1298.39	126.2
GR 1298.58	127.3	1298.72	127.8	1299.4	129.1	1299.43	129.2	1299.49	129.4
GR 1299.5	129.5	1299.25	131	1299.73	132.5	1299.72	133.8	1299.8	134.1
GR 1300.15	134.7	1300.19	134.9	1300.13	135.8	1300.34	136.3	1300.4	136.5
GR 1300.44	136.7	1300.46	136.8	1300.31	138.5	1300.16	139	1300.26	140.6
GR 1300.03	141.2	1300.07	141.6	1300.21	142	1300.58	142.7	1300.61	142.9
GR 1300.66	143.2	1300.7	144.8	1300.3	146.4	1300.78	149.1	1300.69	150.2
GR 1300.81	151.2	1300.98	151.7	1300.99	151.7	1300.66	152.8	1300.97	153.9
GR 1300.96	154.8	1300.7	156.5	1300.7	156.8	1300.75	157.2	1300.83	157.5
GR 1300.84	157.6	1300.84	158	1300.83	158.1	1300.8	158.3	1300.77	158.7
GR 1300.86	159.7	1301.11	160.2	1301.14	160.5	1301.15	160.7	1301.14	160.8
GR 1301.11	161	1301.04	161.3	1301.22	161.8	1301.38	162.9	1301.26	164
GR 1301.58	165.6	1301.55	166	1301.54	166.1	1301.58	166.5	1301.56	167.2
GR 1301.7	167.6	1301.71	167.7	1301.83	168.1	1301.84	168.2	1301.79	168.9
GR 1302.26	170.9	1302.16	172.4	1302.28	173.5	1302.23	174.1	1302.72	176.2
GR 1302.33	177.9	1302.53	179.4	1302.52	179.4	1302.51	179.5	1302.47	179.8
GR 1302.47	179.9	1302.64	180.5	1302.68	180.9	1302.64	182.6	1302.83	183.3
GR 1302.92	184.2	1302.81	185.3	1302.96	186.3	1303.15	186.8	1303.03	188.2
GR 1303.14	189.2	1303.12	189.4	1303.13	189.6	1303.38	190.6	1303.35	191.2
GR 1303.5	192.2	1303.69	197	1304.35	199.9	1304.55	201.3	1304.55	201.4
GR 1304.54	201.7	1304.51	201.9	1304.51	202	1304.46	202.3	1304.47	202.4
GR 1304.5	202.8	1304.51	202.8	1304.52	202.9	1304.6	203.2	1304.62	203.3
GR 1304.64	203.6	1304.65	203.9	1304.68	204	1304.78	204.4	1304.75	204.8
GR 1304.74	205.5	1304.82	205.8	1304.86	205.9	1305.28	207.6	1305.31	209.8
GR 1305.23	210.2	1305.22	210.3	1305.11	210.8	1305.48	211.8	1305.58	213
GR 1305.95	213.6	1306.03	213.7	1306.25	214.6	1306.3	214.9	1306.33	215
GR 1306.38	215.3	1306.43	215.6	1306.45	215.7	1306.47	216	1306.48	216.1
GR 1306.49	216.1	1306.51	216.5	1306.5	217	1306.49	217.2	1306.51	217.3
GR 1306.45	217.7	1306.69	219.3	1306.68	219.5	1306.68	219.6	1306.67	219.8
GR 1306.69	220	1306.69	220.3	1306.69	220.4	1306.71	220.4	1306.87	220.9
GR 1306.97	222	1307.24	223.4	1307.63	224.6	1307.63	224.7	1307.65	224.8
GR 1307.67	225.1	1307.68	225.3	1307.71	225.7	1307.7	225.8	1307.66	226.2
GR 1307.65	226.2	1307.65	226.3	1307.62	226.7	1308	228.3	1307.92	229.4
GR 1307.96	229.5	1308.09	229.9	1308.09	230.1	1308.1	230.4	1308.1	230.5
GR 1308.11	230.5	1308.11	231	1308.16	231.2	1308.19	231.3	1308.34	232
GR 1308.68	233.1	1308.69	233.3	1308.71	233.6	1308.72	233.7	1308.74	233.7
GR 1309.19	235.2	1309.33	236.3	1309.33	236.4	1309.32	236.5	1309.29	236.8
GR 1309.27	236.9	1309.28	237.1	1309.27	237.2	1309.28	237.4	1309.46	238.7
GR 1309.67	239.4	1309.68	239.5	1309.69	239.5	1309.68	239.6	1309.62	239.9
GR 1309.6	240.3	1309.6	240.4	1309.6	240.6	1309.8	241.6	1310.03	242.2
GR 1309.99	242.9	1309.92	243.2	1310.22	244.3	1310.71	246.9	1310.71	247
GR 1310.71	247.1	1310.69	247.3	1310.69	248.1	1311.08	250	1311.04	250.8
GR 1310.93	251.1	1310.91	251.2	1311.02	252.4	1311.08	252.6	1311.15	252.8
GR 1311.17	252.8	1311.24	253.4	1311.11	254.4	1311.23	254.7	1311.44	255.5
GR 1311.44	255.9	1311.82	257	1311.85	257.1	1311.86	257.1	1311.88	257.6
GR 1311.94	257.8	1312.27	258.5	1312.28	258.6	1312.3	258.7	1312.22	259
GR 1312.22	259.2	1312.24	259.4	1312.25	259.7	1312.27	259.8	1312.32	259.9
GR 1312.44	260.2	1312.68	261	1312.68	261.3	1312.68	261.4	1312.6	261.7
GR 1312.56	261.9	1312.59	262.1	1312.63	262.4	1312.9	262.9	1312.92	262.9
GR 1312.94	263	1313.07	263.3	1313.14	263.5	1313.09	265.6	1313.11	265.6
GR 1313.18	265.8	1313.33	266	1313.36	266.1	1313.52	266.4	1313.67	266.7
GR 1313.74	266.8	1313.89	267.2	1313.9	267.2	1313.91	267.2	1314.16	268
GR 1314.17	268	1314.27	268.2	1314.41	268.8	1314.42	268.8	1314.46	269.1

GR 1314.48 269.3 1314.5 269.5 1314.49 269.7 1314.49 269.8 1314.49 269.9  
 GR 1314.49 270.2 1314.49 270.3 1314.49 270.4 1314.53 270.5 1314.56 270.7  
 GR 1314.9 271.3 1315.1 272.5 1315.36 273 1315.37 273 1315.38 273  
 GR 1315.4 273.1 1315.61 273.4 1315.68 273.6 1315.71 273.8 1315.72 273.8  
 GR 1315.77 274.1 1315.76 274.2 1315.73 274.5 1315.74 274.6 1315.75 274.6  
 GR 1315.79 274.7 1316.05 275 1316.17 275.2 1316.24 275.4 1316.22 277  
 GR 1316.3 277.8 1316.28 278 1316.26 278.1 1316.24 278.4 1316.2 278.5  
 GR 1316.14 279.3 1316.41 280.5 1316.42 280.5 1316.41 280.5 1316.39 280.9  
 GR 1316.35 281 1316.27 281.4 1316.23 281.5 1316.55 282.8 1316.57 283.1  
 GR 1316.56 283.2 1316.54 283.3 1316.5 283.6 1316.48 283.7 1316.39 284.2  
 GR 1316.42 284.4 1316.44 284.4391

;  
 NC 0.11 0.11 0.06  
 X1 HartleyPond\_DrainageChannel 124 31.7 36.2 0.0 0.0 0.0 3.28084 0.0  
 GR 1218.18 0 1218.17 0.1 1218.06 0.6 1217.69 1.6 1217.41 2.1  
 GR 1216.84 3.2 1216.61 3.6 1216.29 4.1 1216.1 4.6 1216.08 5.1  
 GR 1215.91 5.6 1215.94 6.1 1215.7 6.8 1215.46 7.6 1215.28 8.6  
 GR 1215.1 10.1 1214.85 10.6 1214.11 11.6 1213.81 12.1 1213.65 12.3  
 GR 1213.44 12.6 1212.92 13.3 1212.69 13.6 1212.36 14 1212.18 14.2  
 GR 1211.73 14.6 1211.13 15.1 1210.4 16.1 1210.29 16.2 1209.86 16.6  
 GR 1209.47 17.1 1208.87 18.1 1208.47 18.6 1207.58 19.6 1207.22 20.1  
 GR 1206.84 20.6 1205.91 21.6 1204.81 22.7 1204.56 23.1 1204.46 23.3  
 GR 1204.36 23.5 1204 24.2 1203.75 24.7 1203.71 24.9 1203.69 24.9  
 GR 1203.65 25.2 1203.42 25.7 1203.37 25.9 1203.34 26 1203.28 26.2  
 GR 1203.27 26.3 1203.26 26.5 1203.24 26.8 1203.24 27 1203.23 27.2  
 GR 1203.25 27.3 1203.3 27.7 1202.95 28.1 1202.66 28.7 1202.56 29.2  
 GR 1202.57 29.6 1202.66 30.2 1202.65 30.7 1202.54 31.2 1202.51 31.4  
 GR 1202.5 31.5 1202.47 31.7 1202.24 32.7 1202.15 32.9 1202.09 33  
 GR 1202 33.2 1201.95 33.3 1201.88 33.6 1201.84 33.7 1201.84 33.8  
 GR 1201.8 34.1 1201.8 34.2 1202.02 34.6 1202.04 34.7 1202.34 35.7  
 GR 1202.44 36.2 1202.43 36.3 1202.45 36.6 1202.44 36.7 1202.43 36.8  
 GR 1202.38 37.1 1202.38 37.2 1202.41 37.4 1202.44 37.5 1202.48 37.7  
 GR 1202.71 38.2 1202.79 38.4 1202.88 38.7 1202.97 38.9 1202.99 39  
 GR 1203.07 39.2 1203.19 39.4 1203.58 40.1 1203.65 40.2 1203.7 40.3  
 GR 1203.83 40.6 1203.87 40.7 1203.88 40.8 1203.96 41.1 1203.97 41.2  
 GR 1204.17 41.7 1204.18 41.7 1204.64 42.2 1205.43 42.7 1206.08 43.2  
 GR 1206.17 43.3 1206.57 43.7 1206.6 43.9 1206.67 44.1 1206.74 44.5  
 GR 1206.76 44.7 1206.76 44.9 1206.76 45 1206.77 45.2 1206.81 45.7  
 GR 1206.81 45.9 1206.81 46 1206.81 46.2 1206.87 47.2795

[LOSSES]

:::Link	Kentry	Kexit	Kavg	Flap Gate	Seepage
C31	0.5	0.5	0	NO	0

[CURVES]

:::Name	Type	X-Value	Y-Value
;Tischer Creek - Flood Reduction Culvert using custom culvert editor			
FloodReduction_CustomCulvert	Shape	0	0.401284109
FloodReduction_CustomCulvert		0.08	0.481540931
FloodReduction_CustomCulvert		0.080001	1.404494382
FloodReduction_CustomCulvert		0.208667737	1.444622793
FloodReduction_CustomCulvert		0.2086678	1.926163724
FloodReduction_CustomCulvert		0.36918138	1.91011236
FloodReduction_CustomCulvert		0.529695024	1.76565008

FloodReduction_CustomCulvert	0.690208668	1.573033708
FloodReduction_CustomCulvert	0.850722311	1.091492777
FloodReduction_CustomCulvert	1	0

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;
HartleyPond Storage 1 10
HartleyPond 2 32
HartleyPond 3 66828
HartleyPond 4 87012
HartleyPond 5 112685
HartleyPond 6 168147
HartleyPond 7 290866
HartleyPond 8 397877
HartleyPond 9 453214
HartleyPond 16 1024684

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[TIMESERIES]

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;;Name      Date      Time      Value
;;-----
;Tischer 24 hr 100 yr flood hyetos profile
Tischer24hr100yr      0.00      0
Tischer24hr100yr      0.25      0.016025
Tischer24hr100yr      0.50      0.016025
Tischer24hr100yr      0.75      0.01923
Tischer24hr100yr      1.00      0.01923
Tischer24hr100yr      1.25      0.01923
Tischer24hr100yr      1.50      0.01923
Tischer24hr100yr      1.75      0.016025
Tischer24hr100yr      2.00      0.016025
Tischer24hr100yr      2.25      0.022435
Tischer24hr100yr      2.50      0.022435
Tischer24hr100yr      2.75      0.01923
Tischer24hr100yr      3.00      0.01923
Tischer24hr100yr      3.25      0.022435
Tischer24hr100yr      3.50      0.022435
Tischer24hr100yr      3.75      0.01923
Tischer24hr100yr      4.00      0.01923
Tischer24hr100yr      4.25      0.02564
Tischer24hr100yr      4.50      0.02564
Tischer24hr100yr      4.75      0.02564
Tischer24hr100yr      5.00      0.02564
Tischer24hr100yr      5.25      0.02564
Tischer24hr100yr      5.50      0.02564
Tischer24hr100yr      5.75      0.02564
Tischer24hr100yr      6.00      0.02564
Tischer24hr100yr      6.25      0.03205
Tischer24hr100yr      6.50      0.03205
Tischer24hr100yr      6.75      0.03205
Tischer24hr100yr      7.00      0.03205
Tischer24hr100yr      7.25      0.03205
Tischer24hr100yr      7.50      0.03205
Tischer24hr100yr      7.75      0.03205
Tischer24hr100yr      8.00      0.03205
Tischer24hr100yr      8.25      0.04487
Tischer24hr100yr      8.50      0.04487
Tischer24hr100yr      8.75      0.041665
Tischer24hr100yr      9.00      0.041665

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Tischer24hr100yr	9.25	0.05128
Tischer24hr100yr	9.50	0.05128
Tischer24hr100yr	9.75	0.05769
Tischer24hr100yr	10.00	0.05769
Tischer24hr100yr	10.25	0.073715
Tischer24hr100yr	10.50	0.073715
Tischer24hr100yr	10.75	0.099355
Tischer24hr100yr	11.00	0.099355
Tischer24hr100yr	11.25	0.15384
Tischer24hr100yr	11.50	0.15384
Tischer24hr100yr	11.75	1.2179
Tischer24hr100yr	12.00	1.2179
Tischer24hr100yr	12.25	0.23076
Tischer24hr100yr	12.50	0.23076
Tischer24hr100yr	12.75	0.118585
Tischer24hr100yr	13.00	0.118585
Tischer24hr100yr	13.25	0.086535
Tischer24hr100yr	13.50	0.086535
Tischer24hr100yr	13.75	0.067305
Tischer24hr100yr	14.00	0.067305
Tischer24hr100yr	14.25	0.048075
Tischer24hr100yr	14.50	0.048075
Tischer24hr100yr	14.75	0.048075
Tischer24hr100yr	15.00	0.048075
Tischer24hr100yr	15.25	0.048075
Tischer24hr100yr	15.50	0.048075
Tischer24hr100yr	15.75	0.048075
Tischer24hr100yr	16.00	0.048075
Tischer24hr100yr	16.25	0.028845
Tischer24hr100yr	16.50	0.028845
Tischer24hr100yr	16.75	0.028845
Tischer24hr100yr	17.00	0.028845
Tischer24hr100yr	17.25	0.028845
Tischer24hr100yr	17.50	0.028845
Tischer24hr100yr	17.75	0.028845
Tischer24hr100yr	18.00	0.028845
Tischer24hr100yr	18.25	0.028845
Tischer24hr100yr	18.50	0.028845
Tischer24hr100yr	18.75	0.028845
Tischer24hr100yr	19.00	0.028845
Tischer24hr100yr	19.25	0.028845
Tischer24hr100yr	19.50	0.028845
Tischer24hr100yr	19.75	0.028845
Tischer24hr100yr	20.00	0.028845
Tischer24hr100yr	20.25	0.01923
Tischer24hr100yr	20.50	0.01923
Tischer24hr100yr	20.75	0.01923
Tischer24hr100yr	21.00	0.01923
Tischer24hr100yr	21.25	0.01923
Tischer24hr100yr	21.50	0.01923
Tischer24hr100yr	21.75	0.01923
Tischer24hr100yr	22.00	0.01923
Tischer24hr100yr	22.25	0.01923
Tischer24hr100yr	22.50	0.01923
Tischer24hr100yr	22.75	0.01923
Tischer24hr100yr	23.00	0.01923

Tischer24hr100yr	23.25	0.01923
Tischer24hr100yr	23.50	0.01923
Tischer24hr100yr	23.75	0.01923
Tischer24hr100yr	24.00	0.01923

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Test	0	5
Test	6	20
Test	12	200
Test	13	500
Test	14	700

;

;Hartley rain gauge data (UMD) from the September 23/24, 2023 storm event

Sept23.24_Event	9/22/2023	0:00	0
Sept23.24_Event	9/22/2023	0:05	0
Sept23.24_Event	9/22/2023	0:10	0
Sept23.24_Event	9/22/2023	0:15	0
Sept23.24_Event	9/22/2023	0:20	0
Sept23.24_Event	9/22/2023	0:25	0
Sept23.24_Event	9/22/2023	0:30	0
Sept23.24_Event	9/22/2023	0:35	0
Sept23.24_Event	9/22/2023	0:40	0
Sept23.24_Event	9/22/2023	0:45	0
Sept23.24_Event	9/22/2023	0:50	0
Sept23.24_Event	9/22/2023	0:55	0
Sept23.24_Event	9/22/2023	1:00	0
Sept23.24_Event	9/22/2023	1:05	0
Sept23.24_Event	9/22/2023	1:10	0
Sept23.24_Event	9/22/2023	1:15	0
Sept23.24_Event	9/22/2023	1:20	0
Sept23.24_Event	9/22/2023	1:25	0
Sept23.24_Event	9/22/2023	1:30	0
Sept23.24_Event	9/22/2023	1:35	0
Sept23.24_Event	9/22/2023	1:40	0
Sept23.24_Event	9/22/2023	1:45	0
Sept23.24_Event	9/22/2023	1:50	0
Sept23.24_Event	9/22/2023	1:55	0
Sept23.24_Event	9/22/2023	2:00	0
Sept23.24_Event	9/22/2023	2:05	0
Sept23.24_Event	9/22/2023	2:10	0
Sept23.24_Event	9/22/2023	2:15	0
Sept23.24_Event	9/22/2023	2:20	0
Sept23.24_Event	9/22/2023	2:25	0
Sept23.24_Event	9/22/2023	2:30	0
Sept23.24_Event	9/22/2023	2:35	0
Sept23.24_Event	9/22/2023	2:40	0
Sept23.24_Event	9/22/2023	2:45	0
Sept23.24_Event	9/22/2023	2:50	0
Sept23.24_Event	9/22/2023	2:55	0
Sept23.24_Event	9/22/2023	3:00	0
Sept23.24_Event	9/22/2023	3:05	0
Sept23.24_Event	9/22/2023	3:10	0
Sept23.24_Event	9/22/2023	3:15	0
Sept23.24_Event	9/22/2023	3:20	0
Sept23.24_Event	9/22/2023	3:25	0
Sept23.24_Event	9/22/2023	3:30	0
Sept23.24_Event	9/22/2023	3:35	0

Sept23.24_Event	9/22/2023	3:40	0
Sept23.24_Event	9/22/2023	3:45	0
Sept23.24_Event	9/22/2023	3:50	0
Sept23.24_Event	9/22/2023	3:55	0
Sept23.24_Event	9/22/2023	4:00	0
Sept23.24_Event	9/22/2023	4:05	0
Sept23.24_Event	9/22/2023	4:10	0
Sept23.24_Event	9/22/2023	4:15	0
Sept23.24_Event	9/22/2023	4:20	0
Sept23.24_Event	9/22/2023	4:25	0
Sept23.24_Event	9/22/2023	4:30	0
Sept23.24_Event	9/22/2023	4:35	0
Sept23.24_Event	9/22/2023	4:40	0
Sept23.24_Event	9/22/2023	4:45	0
Sept23.24_Event	9/22/2023	4:50	0
Sept23.24_Event	9/22/2023	4:55	0
Sept23.24_Event	9/22/2023	5:00	0
Sept23.24_Event	9/22/2023	5:05	0
Sept23.24_Event	9/22/2023	5:10	0
Sept23.24_Event	9/22/2023	5:15	0
Sept23.24_Event	9/22/2023	5:20	0
Sept23.24_Event	9/22/2023	5:25	0
Sept23.24_Event	9/22/2023	5:30	0
Sept23.24_Event	9/22/2023	5:35	0
Sept23.24_Event	9/22/2023	5:40	0
Sept23.24_Event	9/22/2023	5:45	0
Sept23.24_Event	9/22/2023	5:50	0
Sept23.24_Event	9/22/2023	5:55	0
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Sept23.24_Event	9/24/2023	0:55	0
Sept23.24_Event	9/24/2023	1:00	0
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Sept23.24_Event	9/24/2023	9:15	0.06299216
Sept23.24_Event	9/24/2023	9:20	0.04724412
Sept23.24_Event	9/24/2023	9:25	0.0393701
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Sept23.24_Event	9/24/2023	13:25	0.02362206
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Sept23.24_Event	9/24/2023	13:35	0.03149608
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Sept23.24_Event	9/24/2023	13:45	0.04724412
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Sept23.24_Event	9/24/2023	19:00	0
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Sept23.24_Event	9/24/2023	19:20	0
Sept23.24_Event	9/24/2023	19:25	0
Sept23.24_Event	9/24/2023	19:30	0
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Sept23.24_Event	9/24/2023	19:55	0.00787402
Sept23.24_Event	9/24/2023	20:00	0
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Sept23.24_Event	9/24/2023	20:10	0
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Sept23.24_Event	9/24/2023	20:20	0
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Sept23.24_Event	9/24/2023	20:40	0
Sept23.24_Event	9/24/2023	20:45	0
Sept23.24_Event	9/24/2023	20:50	0
Sept23.24_Event	9/24/2023	20:55	0



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Sept23.24_Event	9/24/2023	21:20	0
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Sept23.24_Event	9/24/2023	21:45	0
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Sept23.24_Event	9/24/2023	22:00	0
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Sept23.24_Event	9/24/2023	22:35	0
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Sept23.24_Event	9/24/2023	22:45	0
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Sept23.24_Event	9/25/2023	6:35	0
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Sept23.24_Event	9/25/2023	10:40	0
Sept23.24_Event	9/25/2023	10:45	0
Sept23.24_Event	9/25/2023	10:50	0
Sept23.24_Event	9/25/2023	10:55	0

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Sept23.24_Event	9/25/2023	11:10	0.01574804
Sept23.24_Event	9/25/2023	11:15	0
Sept23.24_Event	9/25/2023	11:20	0.00787402
Sept23.24_Event	9/25/2023	11:25	0.01574804
Sept23.24_Event	9/25/2023	11:30	0.04724412
Sept23.24_Event	9/25/2023	11:35	0.18110246
Sept23.24_Event	9/25/2023	11:40	0.08661422
Sept23.24_Event	9/25/2023	11:45	0.01574804
Sept23.24_Event	9/25/2023	11:50	0.00787402
Sept23.24_Event	9/25/2023	11:55	0.00787402
Sept23.24_Event	9/25/2023	12:00	0
Sept23.24_Event	9/25/2023	12:05	0
Sept23.24_Event	9/25/2023	12:10	0.00787402
Sept23.24_Event	9/25/2023	12:15	0
Sept23.24_Event	9/25/2023	12:20	0
Sept23.24_Event	9/25/2023	12:25	0
Sept23.24_Event	9/25/2023	12:30	0
Sept23.24_Event	9/25/2023	12:35	0
Sept23.24_Event	9/25/2023	12:40	0
Sept23.24_Event	9/25/2023	12:45	0
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Sept23.24_Event	9/25/2023	13:40	0
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Sept23.24_Event	9/25/2023	15:20	0
Sept23.24_Event	9/25/2023	15:25	0
Sept23.24_Event	9/25/2023	15:30	0
Sept23.24_Event	9/25/2023	15:35	0

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Sept23.24_Event	9/25/2023	15:45	0
Sept23.24_Event	9/25/2023	15:50	0
Sept23.24_Event	9/25/2023	15:55	0
Sept23.24_Event	9/25/2023	16:00	0
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Sept23.24_Event	9/25/2023	16:25	0
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Sept23.24_Event	9/25/2023	20:00	0
Sept23.24_Event	9/25/2023	20:05	0
Sept23.24_Event	9/25/2023	20:10	0
Sept23.24_Event	9/25/2023	20:15	0

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Sept23.24_Event	9/25/2023	20:25	0.00787402
Sept23.24_Event	9/25/2023	20:30	0.00787402
Sept23.24_Event	9/25/2023	20:35	0
Sept23.24_Event	9/25/2023	20:40	0
Sept23.24_Event	9/25/2023	20:45	0
Sept23.24_Event	9/25/2023	20:50	0
Sept23.24_Event	9/25/2023	20:55	0.00787402
Sept23.24_Event	9/25/2023	21:00	0
Sept23.24_Event	9/25/2023	21:05	0
Sept23.24_Event	9/25/2023	21:10	0
Sept23.24_Event	9/25/2023	21:15	0
Sept23.24_Event	9/25/2023	21:20	0
Sept23.24_Event	9/25/2023	21:25	0
Sept23.24_Event	9/25/2023	21:30	0
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Sept23.24_Event	9/25/2023	22:30	0
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Sept23.24_Event	9/25/2023	23:25	0
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Sept23.24_Event	9/25/2023	23:35	0
Sept23.24_Event	9/25/2023	23:40	0
Sept23.24_Event	9/25/2023	23:45	0
Sept23.24_Event	9/25/2023	23:50	0
Sept23.24_Event	9/25/2023	23:55	0

;  
;hyetos profile for 0.3 PMP scenario (9.5 inches over 24 hrs)

0.3PMPPProfile	0.00	0
0.3PMPPProfile	0.25	0.02375
0.3PMPPProfile	0.50	0.02375
0.3PMPPProfile	0.75	0.0285
0.3PMPPProfile	1.00	0.0285
0.3PMPPProfile	1.25	0.0285
0.3PMPPProfile	1.50	0.0285
0.3PMPPProfile	1.75	0.02375
0.3PMPPProfile	2.00	0.02375
0.3PMPPProfile	2.25	0.03325

0.3PMPPProfile	2.50	0.03325
0.3PMPPProfile	2.75	0.0285
0.3PMPPProfile	3.00	0.0285
0.3PMPPProfile	3.25	0.03325
0.3PMPPProfile	3.50	0.03325
0.3PMPPProfile	3.75	0.0285
0.3PMPPProfile	4.00	0.0285
0.3PMPPProfile	4.25	0.038
0.3PMPPProfile	4.50	0.038
0.3PMPPProfile	4.75	0.038
0.3PMPPProfile	5.00	0.038
0.3PMPPProfile	5.25	0.038
0.3PMPPProfile	5.50	0.038
0.3PMPPProfile	5.75	0.038
0.3PMPPProfile	6.00	0.038
0.3PMPPProfile	6.25	0.0475
0.3PMPPProfile	6.50	0.0475
0.3PMPPProfile	6.75	0.0475
0.3PMPPProfile	7.00	0.0475
0.3PMPPProfile	7.25	0.0475
0.3PMPPProfile	7.50	0.0475
0.3PMPPProfile	7.75	0.0475
0.3PMPPProfile	8.00	0.0475
0.3PMPPProfile	8.25	0.0665
0.3PMPPProfile	8.50	0.0665
0.3PMPPProfile	8.75	0.06175
0.3PMPPProfile	9.00	0.06175
0.3PMPPProfile	9.25	0.076
0.3PMPPProfile	9.50	0.076
0.3PMPPProfile	9.75	0.0855
0.3PMPPProfile	10.00	0.0855
0.3PMPPProfile	10.25	0.10925
0.3PMPPProfile	10.50	0.10925
0.3PMPPProfile	10.75	0.14725
0.3PMPPProfile	11.00	0.14725
0.3PMPPProfile	11.25	0.228
0.3PMPPProfile	11.50	0.228
0.3PMPPProfile	11.75	1.805
0.3PMPPProfile	12.00	1.805
0.3PMPPProfile	12.25	0.342
0.3PMPPProfile	12.50	0.342
0.3PMPPProfile	12.75	0.17575
0.3PMPPProfile	13.00	0.17575
0.3PMPPProfile	13.25	0.12825
0.3PMPPProfile	13.50	0.12825
0.3PMPPProfile	13.75	0.09975
0.3PMPPProfile	14.00	0.09975
0.3PMPPProfile	14.25	0.07125
0.3PMPPProfile	14.50	0.07125
0.3PMPPProfile	14.75	0.07125
0.3PMPPProfile	15.00	0.07125
0.3PMPPProfile	15.25	0.07125
0.3PMPPProfile	15.50	0.07125
0.3PMPPProfile	15.75	0.07125
0.3PMPPProfile	16.00	0.07125
0.3PMPPProfile	16.25	0.04275

0.3PMPPProfile	16.50	0.04275
0.3PMPPProfile	16.75	0.04275
0.3PMPPProfile	17.00	0.04275
0.3PMPPProfile	17.25	0.04275
0.3PMPPProfile	17.50	0.04275
0.3PMPPProfile	17.75	0.04275
0.3PMPPProfile	18.00	0.04275
0.3PMPPProfile	18.25	0.04275
0.3PMPPProfile	18.50	0.04275
0.3PMPPProfile	18.75	0.04275
0.3PMPPProfile	19.00	0.04275
0.3PMPPProfile	19.25	0.04275
0.3PMPPProfile	19.50	0.04275
0.3PMPPProfile	19.75	0.04275
0.3PMPPProfile	20.00	0.04275
0.3PMPPProfile	20.25	0.0285
0.3PMPPProfile	20.50	0.0285
0.3PMPPProfile	20.75	0.0285
0.3PMPPProfile	21.00	0.0285
0.3PMPPProfile	21.25	0.0285
0.3PMPPProfile	21.50	0.0285
0.3PMPPProfile	21.75	0.0285
0.3PMPPProfile	22.00	0.0285
0.3PMPPProfile	22.25	0.0285
0.3PMPPProfile	22.50	0.0285
0.3PMPPProfile	22.75	0.0285
0.3PMPPProfile	23.00	0.0285
0.3PMPPProfile	23.25	0.0285
0.3PMPPProfile	23.50	0.0285
0.3PMPPProfile	23.75	0.0285
0.3PMPPProfile	24.00	0.0285

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;Tischer 24 hr 100 yr flood hyetos profile for EPA CREAT 2035 scenario (7.13 inches over 24 hr span)

100yr_EPA2035Profile	0.00	0
100yr_EPA2035Profile	0.25	0.017825
100yr_EPA2035Profile	0.50	0.017825
100yr_EPA2035Profile	0.75	0.02139
100yr_EPA2035Profile	1.00	0.02139
100yr_EPA2035Profile	1.25	0.02139
100yr_EPA2035Profile	1.50	0.02139
100yr_EPA2035Profile	1.75	0.017825
100yr_EPA2035Profile	2.00	0.017825
100yr_EPA2035Profile	2.25	0.024955
100yr_EPA2035Profile	2.50	0.024955
100yr_EPA2035Profile	2.75	0.02139
100yr_EPA2035Profile	3.00	0.02139
100yr_EPA2035Profile	3.25	0.024955
100yr_EPA2035Profile	3.50	0.024955
100yr_EPA2035Profile	3.75	0.02139
100yr_EPA2035Profile	4.00	0.02139
100yr_EPA2035Profile	4.25	0.02852
100yr_EPA2035Profile	4.50	0.02852
100yr_EPA2035Profile	4.75	0.02852
100yr_EPA2035Profile	5.00	0.02852
100yr_EPA2035Profile	5.25	0.02852
100yr_EPA2035Profile	5.50	0.02852



100yr_EPA2035Profile	5.75	0.02852
100yr_EPA2035Profile	6.00	0.02852
100yr_EPA2035Profile	6.25	0.03565
100yr_EPA2035Profile	6.50	0.03565
100yr_EPA2035Profile	6.75	0.03565
100yr_EPA2035Profile	7.00	0.03565
100yr_EPA2035Profile	7.25	0.03565
100yr_EPA2035Profile	7.50	0.03565
100yr_EPA2035Profile	7.75	0.03565
100yr_EPA2035Profile	8.00	0.03565
100yr_EPA2035Profile	8.25	0.04991
100yr_EPA2035Profile	8.50	0.04991
100yr_EPA2035Profile	8.75	0.046345
100yr_EPA2035Profile	9.00	0.046345
100yr_EPA2035Profile	9.25	0.05704
100yr_EPA2035Profile	9.50	0.05704
100yr_EPA2035Profile	9.75	0.06417
100yr_EPA2035Profile	10.00	0.06417
100yr_EPA2035Profile	10.25	0.081995
100yr_EPA2035Profile	10.50	0.081995
100yr_EPA2035Profile	10.75	0.110515
100yr_EPA2035Profile	11.00	0.110515
100yr_EPA2035Profile	11.25	0.17112
100yr_EPA2035Profile	11.50	0.17112
100yr_EPA2035Profile	11.75	1.3547
100yr_EPA2035Profile	12.00	1.3547
100yr_EPA2035Profile	12.25	0.25668
100yr_EPA2035Profile	12.50	0.25668
100yr_EPA2035Profile	12.75	0.131905
100yr_EPA2035Profile	13.00	0.131905
100yr_EPA2035Profile	13.25	0.096255
100yr_EPA2035Profile	13.50	0.096255
100yr_EPA2035Profile	13.75	0.074865
100yr_EPA2035Profile	14.00	0.074865
100yr_EPA2035Profile	14.25	0.053475
100yr_EPA2035Profile	14.50	0.053475
100yr_EPA2035Profile	14.75	0.053475
100yr_EPA2035Profile	15.00	0.053475
100yr_EPA2035Profile	15.25	0.053475
100yr_EPA2035Profile	15.50	0.053475
100yr_EPA2035Profile	15.75	0.053475
100yr_EPA2035Profile	16.00	0.053475
100yr_EPA2035Profile	16.25	0.032085
100yr_EPA2035Profile	16.50	0.032085
100yr_EPA2035Profile	16.75	0.032085
100yr_EPA2035Profile	17.00	0.032085
100yr_EPA2035Profile	17.25	0.032085
100yr_EPA2035Profile	17.50	0.032085
100yr_EPA2035Profile	17.75	0.032085
100yr_EPA2035Profile	18.00	0.032085
100yr_EPA2035Profile	18.25	0.032085
100yr_EPA2035Profile	18.50	0.032085
100yr_EPA2035Profile	18.75	0.032085
100yr_EPA2035Profile	19.00	0.032085
100yr_EPA2035Profile	19.25	0.032085
100yr_EPA2035Profile	19.50	0.032085

100yr_EPA2035Profile	19.75	0.032085
100yr_EPA2035Profile	20.00	0.032085
100yr_EPA2035Profile	20.25	0.02139
100yr_EPA2035Profile	20.50	0.02139
100yr_EPA2035Profile	20.75	0.02139
100yr_EPA2035Profile	21.00	0.02139
100yr_EPA2035Profile	21.25	0.02139
100yr_EPA2035Profile	21.50	0.02139
100yr_EPA2035Profile	21.75	0.02139
100yr_EPA2035Profile	22.00	0.02139
100yr_EPA2035Profile	22.25	0.02139
100yr_EPA2035Profile	22.50	0.02139
100yr_EPA2035Profile	22.75	0.02139
100yr_EPA2035Profile	23.00	0.02139
100yr_EPA2035Profile	23.25	0.02139
100yr_EPA2035Profile	23.50	0.02139
100yr_EPA2035Profile	23.75	0.02139
100yr_EPA2035Profile	24.00	0.02139

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;Tischer 24 hr 100 yr flood hyetos profile for EPA CREAT 2060 scenario (7.81 inches over 24 hr span)

100yr_EPA2060Profile	0.00	0
100yr_EPA2060Profile	0.25	0.019525
100yr_EPA2060Profile	0.50	0.019525
100yr_EPA2060Profile	0.75	0.02343
100yr_EPA2060Profile	1.00	0.02343
100yr_EPA2060Profile	1.25	0.02343
100yr_EPA2060Profile	1.50	0.02343
100yr_EPA2060Profile	1.75	0.019525
100yr_EPA2060Profile	2.00	0.019525
100yr_EPA2060Profile	2.25	0.027335
100yr_EPA2060Profile	2.50	0.027335
100yr_EPA2060Profile	2.75	0.02343
100yr_EPA2060Profile	3.00	0.02343
100yr_EPA2060Profile	3.25	0.027335
100yr_EPA2060Profile	3.50	0.027335
100yr_EPA2060Profile	3.75	0.02343
100yr_EPA2060Profile	4.00	0.02343
100yr_EPA2060Profile	4.25	0.03124
100yr_EPA2060Profile	4.50	0.03124
100yr_EPA2060Profile	4.75	0.03124
100yr_EPA2060Profile	5.00	0.03124
100yr_EPA2060Profile	5.25	0.03124
100yr_EPA2060Profile	5.50	0.03124
100yr_EPA2060Profile	5.75	0.03124
100yr_EPA2060Profile	6.00	0.03124
100yr_EPA2060Profile	6.25	0.03905
100yr_EPA2060Profile	6.50	0.03905
100yr_EPA2060Profile	6.75	0.03905
100yr_EPA2060Profile	7.00	0.03905
100yr_EPA2060Profile	7.25	0.03905
100yr_EPA2060Profile	7.50	0.03905
100yr_EPA2060Profile	7.75	0.03905
100yr_EPA2060Profile	8.00	0.03905
100yr_EPA2060Profile	8.25	0.05467
100yr_EPA2060Profile	8.50	0.05467
100yr_EPA2060Profile	8.75	0.050765

100yr_EPA2060Profile	9.00	0.050765
100yr_EPA2060Profile	9.25	0.06248
100yr_EPA2060Profile	9.50	0.06248
100yr_EPA2060Profile	9.75	0.07029
100yr_EPA2060Profile	10.00	0.07029
100yr_EPA2060Profile	10.25	0.089815
100yr_EPA2060Profile	10.50	0.089815
100yr_EPA2060Profile	10.75	0.121055
100yr_EPA2060Profile	11.00	0.121055
100yr_EPA2060Profile	11.25	0.18744
100yr_EPA2060Profile	11.50	0.18744
100yr_EPA2060Profile	11.75	1.4839
100yr_EPA2060Profile	12.00	1.4839
100yr_EPA2060Profile	12.25	0.28116
100yr_EPA2060Profile	12.50	0.28116
100yr_EPA2060Profile	12.75	0.144485
100yr_EPA2060Profile	13.00	0.144485
100yr_EPA2060Profile	13.25	0.105435
100yr_EPA2060Profile	13.50	0.105435
100yr_EPA2060Profile	13.75	0.082005
100yr_EPA2060Profile	14.00	0.082005
100yr_EPA2060Profile	14.25	0.058575
100yr_EPA2060Profile	14.50	0.058575
100yr_EPA2060Profile	14.75	0.058575
100yr_EPA2060Profile	15.00	0.058575
100yr_EPA2060Profile	15.25	0.058575
100yr_EPA2060Profile	15.50	0.058575
100yr_EPA2060Profile	15.75	0.058575
100yr_EPA2060Profile	16.00	0.058575
100yr_EPA2060Profile	16.25	0.035145
100yr_EPA2060Profile	16.50	0.035145
100yr_EPA2060Profile	16.75	0.035145
100yr_EPA2060Profile	17.00	0.035145
100yr_EPA2060Profile	17.25	0.035145
100yr_EPA2060Profile	17.50	0.035145
100yr_EPA2060Profile	17.75	0.035145
100yr_EPA2060Profile	18.00	0.035145
100yr_EPA2060Profile	18.25	0.035145
100yr_EPA2060Profile	18.50	0.035145
100yr_EPA2060Profile	18.75	0.035145
100yr_EPA2060Profile	19.00	0.035145
100yr_EPA2060Profile	19.25	0.035145
100yr_EPA2060Profile	19.50	0.035145
100yr_EPA2060Profile	19.75	0.035145
100yr_EPA2060Profile	20.00	0.035145
100yr_EPA2060Profile	20.25	0.02343
100yr_EPA2060Profile	20.50	0.02343
100yr_EPA2060Profile	20.75	0.02343
100yr_EPA2060Profile	21.00	0.02343
100yr_EPA2060Profile	21.25	0.02343
100yr_EPA2060Profile	21.50	0.02343
100yr_EPA2060Profile	21.75	0.02343
100yr_EPA2060Profile	22.00	0.02343
100yr_EPA2060Profile	22.25	0.02343
100yr_EPA2060Profile	22.50	0.02343
100yr_EPA2060Profile	22.75	0.02343

100yr_EPA2060Profile	23.00	0.02343
100yr_EPA2060Profile	23.25	0.02343
100yr_EPA2060Profile	23.50	0.02343
100yr_EPA2060Profile	23.75	0.02343
100yr_EPA2060Profile	24.00	0.02343

;

;baseflow

Baseflow	0	5
Baseflow	0.25	5
Baseflow	0.5	5
Baseflow	0.75	5
Baseflow	1	5
Baseflow	1.25	5
Baseflow	1.5	5
Baseflow	1.75	5
Baseflow	2	5
Baseflow	2.25	5
Baseflow	2.5	5
Baseflow	2.75	5
Baseflow	3	5
Baseflow	3.25	5
Baseflow	3.5	5
Baseflow	3.75	5
Baseflow	4	5
Baseflow	4.25	5
Baseflow	4.5	5
Baseflow	4.75	5
Baseflow	5	5
Baseflow	5.25	5
Baseflow	5.5	5
Baseflow	5.75	5
Baseflow	6	5
Baseflow	6.25	5
Baseflow	6.5	5
Baseflow	6.75	5
Baseflow	7	5
Baseflow	7.25	5
Baseflow	7.5	5
Baseflow	7.75	5
Baseflow	8	5
Baseflow	8.25	5
Baseflow	8.5	5
Baseflow	8.75	5
Baseflow	9	5
Baseflow	9.25	5
Baseflow	9.5	5
Baseflow	9.75	5
Baseflow	10	5
Baseflow	10.25	5
Baseflow	10.5	5
Baseflow	10.75	5
Baseflow	11	5
Baseflow	11.25	5
Baseflow	11.5	5
Baseflow	11.75	5
Baseflow	12	5

Baseflow	12.25	5
Baseflow	12.5	5
Baseflow	12.75	5
Baseflow	13	5
Baseflow	13.25	5
Baseflow	13.5	5
Baseflow	13.75	5
Baseflow	14	5
Baseflow	14.25	5
Baseflow	14.5	5
Baseflow	14.75	5
Baseflow	15	5
Baseflow	15.25	5
Baseflow	15.5	5
Baseflow	15.75	5
Baseflow	16	5
Baseflow	16.25	5
Baseflow	16.5	5
Baseflow	16.75	5
Baseflow	17	5
Baseflow	17.25	5
Baseflow	17.5	5
Baseflow	17.75	5
Baseflow	18	5
Baseflow	18.25	5
Baseflow	18.5	5
Baseflow	18.75	5
Baseflow	19	5
Baseflow	19.25	5
Baseflow	19.5	5
Baseflow	19.75	5
Baseflow	20	5
Baseflow	20.25	5
Baseflow	20.5	5
Baseflow	20.75	5
Baseflow	21	5
Baseflow	21.25	5
Baseflow	21.5	5
Baseflow	21.75	5
Baseflow	22	5
Baseflow	22.25	5
Baseflow	22.5	5
Baseflow	22.75	5
Baseflow	23	5
Baseflow	23.25	5
Baseflow	23.5	5
Baseflow	23.75	5
Baseflow	24	5

;

;2 yr 24 hr precipitation event for Tischer

2yr24h	0	0
2yr24h	0.25	0.0067
2yr24h	0.5	0.0067
2yr24h	0.75	0.00804
2yr24h	1	0.00804
2yr24h	1.25	0.00804

2yr24h	1.5	0.00804
2yr24h	1.75	0.0067
2yr24h	2	0.0067
2yr24h	2.25	0.00938
2yr24h	2.5	0.00938
2yr24h	2.75	0.00804
2yr24h	3	0.00804
2yr24h	3.25	0.00938
2yr24h	3.5	0.00938
2yr24h	3.75	0.00804
2yr24h	4	0.00804
2yr24h	4.25	0.01072
2yr24h	4.5	0.01072
2yr24h	4.75	0.01072
2yr24h	5	0.01072
2yr24h	5.25	0.01072
2yr24h	5.5	0.01072
2yr24h	5.75	0.01072
2yr24h	6	0.01072
2yr24h	6.25	0.0134
2yr24h	6.5	0.0134
2yr24h	6.75	0.0134
2yr24h	7	0.0134
2yr24h	7.25	0.0134
2yr24h	7.5	0.0134
2yr24h	7.75	0.0134
2yr24h	8	0.0134
2yr24h	8.25	0.01876
2yr24h	8.5	0.01876
2yr24h	8.75	0.01742
2yr24h	9	0.01742
2yr24h	9.25	0.02144
2yr24h	9.5	0.02144
2yr24h	9.75	0.02412
2yr24h	10	0.02412
2yr24h	10.25	0.03082
2yr24h	10.5	0.03082
2yr24h	10.75	0.04154
2yr24h	11	0.04154
2yr24h	11.25	0.06432
2yr24h	11.5	0.06432
2yr24h	11.75	0.5092
2yr24h	12	0.5092
2yr24h	12.25	0.09648
2yr24h	12.5	0.09648
2yr24h	12.75	0.04958
2yr24h	13	0.04958
2yr24h	13.25	0.03618
2yr24h	13.5	0.03618
2yr24h	13.75	0.02814
2yr24h	14	0.02814
2yr24h	14.25	0.0201
2yr24h	14.5	0.0201
2yr24h	14.75	0.0201
2yr24h	15	0.0201
2yr24h	15.25	0.0201

2yr24h	15.5	0.0201
2yr24h	15.75	0.0201
2yr24h	16	0.0201
2yr24h	16.25	0.01206
2yr24h	16.5	0.01206
2yr24h	16.75	0.01206
2yr24h	17	0.01206
2yr24h	17.25	0.01206
2yr24h	17.5	0.01206
2yr24h	17.75	0.01206
2yr24h	18	0.01206
2yr24h	18.25	0.01206
2yr24h	18.5	0.01206
2yr24h	18.75	0.01206
2yr24h	19	0.01206
2yr24h	19.25	0.01206
2yr24h	19.5	0.01206
2yr24h	19.75	0.01206
2yr24h	20	0.01206
2yr24h	20.25	0.00804
2yr24h	20.5	0.00804
2yr24h	20.75	0.00804
2yr24h	21	0.00804
2yr24h	21.25	0.00804
2yr24h	21.5	0.00804
2yr24h	21.75	0.00804
2yr24h	22	0.00804
2yr24h	22.25	0.00804
2yr24h	22.5	0.00804
2yr24h	22.75	0.00804
2yr24h	23	0.00804
2yr24h	23.25	0.00804
2yr24h	23.5	0.00804
2yr24h	23.75	0.00804
2yr24h	24	0.00804

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;10 yr 24 hr precipitation event for Tischer

10yr24hr	0	0
10yr24hr	0.25	0.01
10yr24hr	0.5	0.01
10yr24hr	0.75	0.012
10yr24hr	1	0.012
10yr24hr	1.25	0.012
10yr24hr	1.5	0.012
10yr24hr	1.75	0.01
10yr24hr	2	0.01
10yr24hr	2.25	0.014
10yr24hr	2.5	0.014
10yr24hr	2.75	0.012
10yr24hr	3	0.012
10yr24hr	3.25	0.014
10yr24hr	3.5	0.014
10yr24hr	3.75	0.012
10yr24hr	4	0.012
10yr24hr	4.25	0.016
10yr24hr	4.5	0.016

10yr24hr	4.75	0.016
10yr24hr	5	0.016
10yr24hr	5.25	0.016
10yr24hr	5.5	0.016
10yr24hr	5.75	0.016
10yr24hr	6	0.016
10yr24hr	6.25	0.02
10yr24hr	6.5	0.02
10yr24hr	6.75	0.02
10yr24hr	7	0.02
10yr24hr	7.25	0.02
10yr24hr	7.5	0.02
10yr24hr	7.75	0.02
10yr24hr	8	0.02
10yr24hr	8.25	0.028
10yr24hr	8.5	0.028
10yr24hr	8.75	0.026
10yr24hr	9	0.026
10yr24hr	9.25	0.032
10yr24hr	9.5	0.032
10yr24hr	9.75	0.036
10yr24hr	10	0.036
10yr24hr	10.25	0.046
10yr24hr	10.5	0.046
10yr24hr	10.75	0.062
10yr24hr	11	0.062
10yr24hr	11.25	0.096
10yr24hr	11.5	0.096
10yr24hr	11.75	0.76
10yr24hr	12	0.76
10yr24hr	12.25	0.144
10yr24hr	12.5	0.144
10yr24hr	12.75	0.074
10yr24hr	13	0.074
10yr24hr	13.25	0.054
10yr24hr	13.5	0.054
10yr24hr	13.75	0.042
10yr24hr	14	0.042
10yr24hr	14.25	0.03
10yr24hr	14.5	0.03
10yr24hr	14.75	0.03
10yr24hr	15	0.03
10yr24hr	15.25	0.03
10yr24hr	15.5	0.03
10yr24hr	15.75	0.03
10yr24hr	16	0.03
10yr24hr	16.25	0.018
10yr24hr	16.5	0.018
10yr24hr	16.75	0.018
10yr24hr	17	0.018
10yr24hr	17.25	0.018
10yr24hr	17.5	0.018
10yr24hr	17.75	0.018
10yr24hr	18	0.018
10yr24hr	18.25	0.018
10yr24hr	18.5	0.018



10yr24hr	18.75	0.018
10yr24hr	19	0.018
10yr24hr	19.25	0.018
10yr24hr	19.5	0.018
10yr24hr	19.75	0.018
10yr24hr	20	0.018
10yr24hr	20.25	0.012
10yr24hr	20.5	0.012
10yr24hr	20.75	0.012
10yr24hr	21	0.012
10yr24hr	21.25	0.012
10yr24hr	21.5	0.012
10yr24hr	21.75	0.012
10yr24hr	22	0.012
10yr24hr	22.25	0.012
10yr24hr	22.5	0.012
10yr24hr	22.75	0.012
10yr24hr	23	0.012
10yr24hr	23.25	0.012
10yr24hr	23.5	0.012
10yr24hr	23.75	0.012
10yr24hr	24	0.012

;

;1 yr, 24 hr flood event for Tischer

1yr24hr	0	0
1yr24hr	0.25	0.0057
1yr24hr	0.5	0.0057
1yr24hr	0.75	0.00684
1yr24hr	1	0.00684
1yr24hr	1.25	0.00684
1yr24hr	1.5	0.00684
1yr24hr	1.75	0.0057
1yr24hr	2	0.0057
1yr24hr	2.25	0.00798
1yr24hr	2.5	0.00798
1yr24hr	2.75	0.00684
1yr24hr	3	0.00684
1yr24hr	3.25	0.00798
1yr24hr	3.5	0.00798
1yr24hr	3.75	0.00684
1yr24hr	4	0.00684
1yr24hr	4.25	0.00912
1yr24hr	4.5	0.00912
1yr24hr	4.75	0.00912
1yr24hr	5	0.00912
1yr24hr	5.25	0.00912
1yr24hr	5.5	0.00912
1yr24hr	5.75	0.00912
1yr24hr	6	0.00912
1yr24hr	6.25	0.0114
1yr24hr	6.5	0.0114
1yr24hr	6.75	0.0114
1yr24hr	7	0.0114
1yr24hr	7.25	0.0114
1yr24hr	7.5	0.0114
1yr24hr	7.75	0.0114

1yr24hr	8	0.0114
1yr24hr	8.25	0.01596
1yr24hr	8.5	0.01596
1yr24hr	8.75	0.01482
1yr24hr	9	0.01482
1yr24hr	9.25	0.01824
1yr24hr	9.5	0.01824
1yr24hr	9.75	0.02052
1yr24hr	10	0.02052
1yr24hr	10.25	0.02622
1yr24hr	10.5	0.02622
1yr24hr	10.75	0.03534
1yr24hr	11	0.03534
1yr24hr	11.25	0.05472
1yr24hr	11.5	0.05472
1yr24hr	11.75	0.4332
1yr24hr	12	0.4332
1yr24hr	12.25	0.08208
1yr24hr	12.5	0.08208
1yr24hr	12.75	0.04218
1yr24hr	13	0.04218
1yr24hr	13.25	0.03078
1yr24hr	13.5	0.03078
1yr24hr	13.75	0.02394
1yr24hr	14	0.02394
1yr24hr	14.25	0.0171
1yr24hr	14.5	0.0171
1yr24hr	14.75	0.0171
1yr24hr	15	0.0171
1yr24hr	15.25	0.0171
1yr24hr	15.5	0.0171
1yr24hr	15.75	0.0171
1yr24hr	16	0.0171
1yr24hr	16.25	0.01026
1yr24hr	16.5	0.01026
1yr24hr	16.75	0.01026
1yr24hr	17	0.01026
1yr24hr	17.25	0.01026
1yr24hr	17.5	0.01026
1yr24hr	17.75	0.01026
1yr24hr	18	0.01026
1yr24hr	18.25	0.01026
1yr24hr	18.5	0.01026
1yr24hr	18.75	0.01026
1yr24hr	19	0.01026
1yr24hr	19.25	0.01026
1yr24hr	19.5	0.01026
1yr24hr	19.75	0.01026
1yr24hr	20	0.01026
1yr24hr	20.25	0.00684
1yr24hr	20.5	0.00684
1yr24hr	20.75	0.00684
1yr24hr	21	0.00684
1yr24hr	21.25	0.00684
1yr24hr	21.5	0.00684
1yr24hr	21.75	0.00684

1yr24hr	22	0.00684
1yr24hr	22.25	0.00684
1yr24hr	22.5	0.00684
1yr24hr	22.75	0.00684
1yr24hr	23	0.00684
1yr24hr	23.25	0.00684
1yr24hr	23.5	0.00684
1yr24hr	23.75	0.00684
1yr24hr	24	0.00684

;

;Approximated 6 month recurrence, 24hr event

Approx_6month24hr	0	0
Approx_6month24hr	0.25	0.00485
Approx_6month24hr	0.5	0.00485
Approx_6month24hr	0.75	0.00582
Approx_6month24hr	1	0.00582
Approx_6month24hr	1.25	0.00582
Approx_6month24hr	1.5	0.00582
Approx_6month24hr	1.75	0.00485
Approx_6month24hr	2	0.00485
Approx_6month24hr	2.25	0.00679
Approx_6month24hr	2.5	0.00679
Approx_6month24hr	2.75	0.00582
Approx_6month24hr	3	0.00582
Approx_6month24hr	3.25	0.00679
Approx_6month24hr	3.5	0.00679
Approx_6month24hr	3.75	0.00582
Approx_6month24hr	4	0.00582
Approx_6month24hr	4.25	0.00776
Approx_6month24hr	4.5	0.00776
Approx_6month24hr	4.75	0.00776
Approx_6month24hr	5	0.00776
Approx_6month24hr	5.25	0.00776
Approx_6month24hr	5.5	0.00776
Approx_6month24hr	5.75	0.00776
Approx_6month24hr	6	0.00776
Approx_6month24hr	6.25	0.0097
Approx_6month24hr	6.5	0.0097
Approx_6month24hr	6.75	0.0097
Approx_6month24hr	7	0.0097
Approx_6month24hr	7.25	0.0097
Approx_6month24hr	7.5	0.0097
Approx_6month24hr	7.75	0.0097
Approx_6month24hr	8	0.0097
Approx_6month24hr	8.25	0.01358
Approx_6month24hr	8.5	0.01358
Approx_6month24hr	8.75	0.01261
Approx_6month24hr	9	0.01261
Approx_6month24hr	9.25	0.01552
Approx_6month24hr	9.5	0.01552
Approx_6month24hr	9.75	0.01746
Approx_6month24hr	10	0.01746
Approx_6month24hr	10.25	0.02231
Approx_6month24hr	10.5	0.02231
Approx_6month24hr	10.75	0.03007
Approx_6month24hr	11	0.03007

Approx_6month24hr	11.25	0.04656
Approx_6month24hr	11.5	0.04656
Approx_6month24hr	11.75	0.3686
Approx_6month24hr	12	0.3686
Approx_6month24hr	12.25	0.06984
Approx_6month24hr	12.5	0.06984
Approx_6month24hr	12.75	0.03589
Approx_6month24hr	13	0.03589
Approx_6month24hr	13.25	0.02619
Approx_6month24hr	13.5	0.02619
Approx_6month24hr	13.75	0.02037
Approx_6month24hr	14	0.02037
Approx_6month24hr	14.25	0.01455
Approx_6month24hr	14.5	0.01455
Approx_6month24hr	14.75	0.01455
Approx_6month24hr	15	0.01455
Approx_6month24hr	15.25	0.01455
Approx_6month24hr	15.5	0.01455
Approx_6month24hr	15.75	0.01455
Approx_6month24hr	16	0.01455
Approx_6month24hr	16.25	0.00873
Approx_6month24hr	16.5	0.00873
Approx_6month24hr	16.75	0.00873
Approx_6month24hr	17	0.00873
Approx_6month24hr	17.25	0.00873
Approx_6month24hr	17.5	0.00873
Approx_6month24hr	17.75	0.00873
Approx_6month24hr	18	0.00873
Approx_6month24hr	18.25	0.00873
Approx_6month24hr	18.5	0.00873
Approx_6month24hr	18.75	0.00873
Approx_6month24hr	19	0.00873
Approx_6month24hr	19.25	0.00873
Approx_6month24hr	19.5	0.00873
Approx_6month24hr	19.75	0.00873
Approx_6month24hr	20	0.00873
Approx_6month24hr	20.25	0.00582
Approx_6month24hr	20.5	0.00582
Approx_6month24hr	20.75	0.00582
Approx_6month24hr	21	0.00582
Approx_6month24hr	21.25	0.00582
Approx_6month24hr	21.5	0.00582
Approx_6month24hr	21.75	0.00582
Approx_6month24hr	22	0.00582
Approx_6month24hr	22.25	0.00582
Approx_6month24hr	22.5	0.00582
Approx_6month24hr	22.75	0.00582
Approx_6month24hr	23	0.00582
Approx_6month24hr	23.25	0.00582
Approx_6month24hr	23.5	0.00582
Approx_6month24hr	23.75	0.00582
Approx_6month24hr	24	0.00582

[PATTERNS]

```
;;Name      Type      Multipliers
;;-----
```

```

baseline    HOURLY    1.0  1.0  1.0  1.0  1.0  1.0
baseline          1.0  1.0  1.0  1.0  1.0  1.0
baseline          1.0  1.0  1.0  1.0  1.0  1.0
baseline          1.0  1.0  1.0  1.0  1.0  1.0
;
baseflow     HOURLY    1.0  1.0  1.0  1.0  1.0  1.0  1.0
baseflow          1.0  1.0  1.0  1.0  1.0  1.0
baseflow          1.0  1.0  1.0  1.0  1.0  1.0
baseflow          1.0  1.0  1.0  1.0  1.0  1.0

```

[REPORT]

```

;;Reporting Options
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

```

[TAGS]

[MAP]

```

DIMENSIONS -1470.588 0.000 11470.588 10000.000
Units      None

```

[COORDINATES]

```

;;Node      X-Coord      Y-Coord
;-----;
J7          4819.791      7354.250
J8          2670.222      8314.577
J9          3211.802      6410.673
J11         3969.007      5152.327
J14         4226.407      5159.266
J15         4843.240      5322.109
J16         4628.404      4868.934
J34         5762.611      4481.181
J35         4597.202      7170.727
J36         4240.082      6969.847
J37         3704.401      6727.117
J38         3086.900      6090.073
J39         3402.170      5805.493
J40         3811.120      5526.530
J41         4436.970      5046.306
J42         4946.410      4709.801
J43         2874.679      8103.532
J44         2924.929      7444.703
J45         3310.176      7020.372
J46         4763.772      5117.165
Out2        6021.928      4509.065
Storage1    5518.951      4356.738

```

[VERTICES]

```

;;Link      X-Coord      Y-Coord
;-----;
C9          4823.876      7161.733
C10         4412.851      7180.341
C10         4390.544      7031.164
C11         4061.889      6883.877
C11         3886.222      6875.512

```

C12	3313.855	6412.951
C13	3192.125	6399.009
C13	3091.745	6252.621
C14	3086.168	6005.851
C14	3200.490	5810.666
C14	3292.506	5813.455
C15	3450.779	5798.907
C15	3489.816	5755.688
C15	3634.810	5662.278
C15	3691.972	5602.328
C15	3779.805	5559.109
C16	3876.132	5524.808
C16	3895.651	5499.713
C16	3965.360	5491.348
C16	4047.616	5420.245
C16	4142.420	5418.851
C16	4156.362	5402.121
C16	4166.121	5363.084
C16	4181.457	5339.383
C16	4200.976	5331.018
C16	4228.859	5326.835
C16	4242.801	5305.922
C16	4242.801	5252.944
C16	4230.253	5219.483
C17	4283.610	5103.468
C17	4293.369	5082.555
C17	4308.705	5070.007
C17	4332.406	5058.854
C17	4358.896	5054.671
C17	4411.874	5053.277
C18	4459.276	5036.547
C18	4477.401	5021.211
C18	4489.948	4997.510
C18	4531.774	4977.992
C18	4549.898	4965.444
C18	4579.176	4938.955
C18	4591.723	4911.071
C18	4607.059	4890.158
C19	4645.825	4851.346
C19	4654.190	4774.666
C19	4665.343	4745.388
C19	4673.708	4737.023
C19	4712.745	4732.841
C19	4814.520	4730.052
C19	4829.856	4734.235
C19	4892.594	4720.293
C19	4933.025	4718.899
C20	4960.909	4696.592
C20	4977.639	4647.796
C20	4991.581	4632.460
C20	5041.771	4631.066
C20	5071.049	4614.336
C20	5093.356	4586.452
C20	5103.115	4568.328
C20	5114.268	4541.838
C20	5139.364	4519.532

C20	5163.065	4502.801
C20	5181.189	4501.407
C22	5774.392	4481.955
C22	5814.799	4515.395
C22	5875.410	4518.182
C22	5919.301	4504.248
C23	2786.416	8227.276
C23	2853.337	8161.750
C23	2871.461	8129.684
C24	2900.475	8023.616
C24	2901.870	7827.037
C24	2904.658	7729.445
C24	2933.936	7665.313
C24	2933.936	7532.866
C24	2922.782	7474.310
C25	2946.127	7302.713
C25	2971.237	7163.213
C25	3018.667	7107.413
C25	3158.167	7071.143
C26	3309.225	6518.622
C26	3194.902	6520.016
C26	3200.479	6439.154
C27	4015.387	5183.168
C27	4075.337	5192.927
C27	4142.257	5195.715
C27	4170.141	5165.043
C27	4199.418	5158.072
C28	4815.356	5274.707
C28	4805.597	5231.487
C28	4798.626	5168.749
C28	4798.626	5139.472
C29	4736.794	5082.584
C29	4708.911	5025.423
C29	4683.815	4959.897
C29	4651.749	4883.217
C30	5699.395	4488.925
C30	5705.665	4524.456
C30	5730.745	4533.513
C30	5751.646	4530.726
C30	5764.186	4523.759
C30	5770.456	4513.309
C30	5764.186	4494.499

[Polygons]

::Subcatchment	X-Coord	Y-Coord
::-----		
S1	3347.162	6137.760
S1	3347.228	6135.188
S1	3347.293	6132.616
S1	3347.424	6127.471
S1	3347.555	6122.327
S1	3347.685	6117.183
S1	3347.947	6106.895
S1	3348.209	6096.607
S1	3349.255	6055.454
S1	3351.347	5973.149

S1	3355.532	5808.539
S1	3131.954	5817.154
S1	3069.216	5779.511
S1	3074.792	5748.839
S1	3024.602	5672.159
S1	2977.200	5539.712
S1	2953.499	5502.070
S1	2899.126	5495.099
S1	2883.790	5461.639
S1	2825.234	5463.033
S1	2761.102	5391.930
S1	2729.036	5408.660
S1	2685.817	5397.506
S1	2655.145	5414.236
S1	2577.071	5453.273
S1	2505.968	5454.668
S1	2475.296	5414.236
S1	2447.412	5412.842
S1	2413.952	5389.141
S1	2373.521	5398.901
S1	2360.973	5463.033
S1	2379.098	5507.646
S1	2310.783	5539.712
S1	2239.680	5529.953
S1	2185.307	5545.289
S1	2119.781	5541.107
S1	2087.715	5580.144
S1	2054.254	5617.786
S1	2027.765	5654.035
S1	2029.159	5718.167
S1	1988.728	5737.686
S1	1980.363	5792.059
S1	1969.209	5857.585
S1	1965.027	5923.111
S1	1974.786	5969.119
S1	2002.382	5987.099
S1	2009.365	6033.278
S1	2010.759	6066.738
S1	1994.029	6090.439
S1	2019.124	6140.629
S1	2048.402	6181.061
S1	2027.489	6256.346
S1	1999.606	6245.193
S1	1943.839	6281.441
S1	1915.955	6334.420
S1	1899.225	6381.822
S1	1829.516	6362.304
S1	1797.450	6379.034
S1	1761.201	6363.698
S1	1723.559	6398.552
S1	1688.704	6397.158
S1	1631.543	6427.830
S1	1598.083	6489.174
S1	1570.199	6517.057
S1	1571.593	6558.883
S1	1545.104	6582.584



S1	1407.080	6617.438
S1	1363.861	6678.782
S1	1285.787	6741.520
S1	1280.210	6780.557
S1	1231.414	6797.287
S1	1201.701	6769.995
S1	1187.759	6756.751
S1	1173.817	6743.506
S1	1087.198	6801.519
S1	993.968	6860.617
S1	861.161	7014.286
S1	833.278	7000.344
S1	771.934	7010.103
S1	695.254	7036.593
S1	685.495	6978.037
S1	700.964	6884.071
S1	705.152	6832.426
S1	599.069	6709.593
S1	476.237	6810.093
S1	314.321	6676.094
S1	280.821	6810.093
S1	219.405	6944.092
S1	291.988	7039.008
S1	185.905	7189.757
S1	79.823	7200.923
S1	74.239	7273.506
S1	123.153	7298.924
S1	180.322	7312.589
S1	224.928	7282.194
S1	270.936	7307.290
S1	314.321	7295.839
S1	370.154	7374.006
S1	470.653	7189.757
S1	505.158	7315.655
S1	599.962	7328.202
S1	599.962	7360.268
S1	725.438	7501.080
S1	1160.421	7505.263
S1	1202.065	7642.004
S1	1274.648	7658.754
S1	1235.565	7798.336
S1	1157.399	7831.836
S1	1084.816	7921.169
S1	1168.565	8071.918
S1	1174.149	8178.000
S1	1302.564	8172.417
S1	1330.481	8211.500
S1	1358.397	8217.083
S1	1369.564	8183.584
S1	1838.561	8183.584
S1	1760.395	8200.333
S1	1760.395	8256.166
S1	1821.811	8339.916
S1	1659.895	8356.666
S1	1643.145	8468.332
S1	1609.646	8546.498

S1	1564.979	8591.164
S1	1442.147	8535.331
S1	1419.814	8607.914
S1	1464.480	8686.080
S1	1481.230	8719.580
S1	1419.814	8736.330
S1	1447.730	8814.496
S1	1363.981	8881.496
S1	1380.731	8987.578
S1	1369.564	9032.245
S1	1308.148	9071.328
S1	1319.314	9121.577
S1	1213.232	9222.077
S1	1458.897	9439.825
S1	1520.313	9428.659
S1	1576.146	9361.659
S1	1671.062	9406.325
S1	1749.228	9411.909
S1	1816.228	9378.409
S1	1821.811	9294.660
S1	1911.144	9177.410
S1	1978.143	9227.660
S1	1989.310	9361.659
S1	2184.725	9434.242
S1	2218.225	9283.493
S1	2290.808	9361.659
S1	2424.807	9367.242
S1	2480.640	9322.576
S1	2564.389	9300.243
S1	2664.889	9177.410
S1	2737.472	9115.994
S1	2715.138	9021.078
S1	2754.221	8769.830
S1	2927.304	8775.413
S1	2971.970	8820.079
S1	3033.386	8803.329
S1	3072.469	8719.580
S1	3167.385	8658.164
S1	3245.551	8702.830
S1	3312.551	8697.247
S1	3329.301	8797.746
S1	3413.050	8764.246
S1	3480.050	8797.746
S1	3669.882	8753.080
S1	3831.798	8635.831
S1	3826.214	8552.081
S1	3882.047	8473.915
S1	3926.714	8490.665
S1	3982.547	8462.748
S1	3988.130	8512.998
S1	4043.963	8507.415
S1	4150.045	8568.831
S1	4261.711	8529.748
S1	4222.628	8434.832
S1	4267.295	8434.832
S1	4272.878	8367.832

S1	4501.793	8356.666
S1	4574.376	8245.000
S1	4669.292	8261.750
S1	4705.172	8233.955
S1	4756.757	8185.158
S1	4945.818	7877.492
S1	4956.978	7698.932
S1	4929.078	7433.882
S1	4940.238	7319.492
S1	4970.928	7037.702
S1	4938.787	6988.738
S1	4915.128	6954.002
S1	4878.177	6939.350
S1	4869.812	6890.554
S1	4758.278	6882.189
S1	4763.855	6852.911
S1	4726.212	6809.692
S1	4727.606	6756.713
S1	4674.627	6719.070
S1	4702.511	6660.515
S1	4787.556	6661.909
S1	4775.008	6607.536
S1	4768.037	6532.250
S1	4731.789	6519.703
S1	4731.789	6449.994
S1	4645.350	6441.629
S1	4595.159	6422.110
S1	4511.509	6429.081
S1	4444.588	6388.650
S1	4443.626	6358.781
S1	4429.683	6338.640
S1	4356.716	6334.347
S1	4310.708	6314.829
S1	4287.007	6278.580
S1	4243.788	6252.091
S1	4238.211	6201.900
S1	4197.780	6130.797
S1	4207.539	6093.154
S1	4080.669	6122.432
S1	3998.412	6044.358
S1	3984.470	6073.636
S1	3960.769	6082.001
S1	3917.550	6048.541
S1	3878.513	6073.636
S1	3818.563	6063.877
S1	3783.709	6055.511
S1	3751.643	6062.482
S1	3725.153	6093.154
S1	3687.511	6098.731
S1	3641.503	6121.038
S1	3620.590	6119.644
S1	3570.400	6116.855
S1	3525.786	6164.257
S1	3467.231	6139.162
S1	3439.347	6151.710
S1	3410.069	6148.921

S1	3386.368	6125.220
S1	3373.821	6140.556
S2	5458.716	6250.893
S2	5459.763	6249.371
S2	5460.809	6247.849
S2	5462.902	6244.805
S2	5467.088	6238.716
S2	5475.460	6226.539
S2	5492.204	6202.184
S2	5373.476	6208.273
S2	5349.121	6180.874
S2	5361.299	6104.767
S2	5321.723	6056.058
S2	5361.299	6028.659
S2	5370.432	5909.932
S2	5346.077	5900.799
S2	5193.862	5912.976
S2	5178.641	5846.001
S2	5123.843	5842.957
S2	5108.622	5821.647
S2	5035.559	5788.160
S2	4916.831	5806.425
S2	4862.033	5782.071
S2	4862.033	5632.900
S2	4889.432	5593.324
S2	4904.654	5590.280
S2	4950.318	5501.995
S2	4992.938	5517.217
S2	5023.381	5431.977
S2	5002.071	5398.489
S2	5011.204	5355.869
S2	4995.476	5319.962
S2	4948.046	5286.482
S2	4872.716	5152.562
S2	4819.706	5040.962
S2	4755.536	4940.522
S2	4680.206	4851.242
S2	4649.516	4823.342
S2	4616.036	4812.182
S2	4496.066	4823.342
S2	4323.086	4845.662
S2	4208.696	4865.192
S2	4069.196	4876.352
S2	3943.646	4848.452
S2	3904.586	4837.292
S2	3834.836	4837.292
S2	3787.396	4820.072
S2	3747.820	4804.851
S2	3163.314	4795.718
S2	3157.225	4844.427
S2	3099.384	4902.268
S2	3050.675	4978.376
S2	3005.010	4966.199
S2	2941.080	5030.129
S2	2904.548	5020.996
S2	2880.194	5057.528

S2	2868.017	5167.122
S2	2822.352	5167.122
S2	2758.422	5221.920
S2	2746.245	5398.489
S2	2804.087	5456.331
S2	2868.017	5465.464
S2	2877.150	5495.907
S2	2941.080	5495.907
S2	3001.966	5657.255
S2	3059.808	5739.451
S2	3041.542	5782.071
S2	3108.517	5818.603
S2	3339.883	5800.337
S2	3330.751	6132.166
S2	3355.427	6138.577
S2	3372.157	6123.241
S2	3397.252	6148.336
S2	3429.319	6149.730
S2	3457.202	6135.788
S2	3511.575	6160.884
S2	3558.977	6113.482
S2	3630.080	6119.058
S2	3681.665	6096.751
S2	3713.731	6091.175
S2	3734.643	6061.897
S2	3769.498	6053.532
S2	3865.696	6073.050
S2	3901.945	6045.167
S2	3940.982	6082.810
S2	3967.471	6074.445
S2	3985.595	6040.984
S2	4065.064	6120.452
S2	4191.934	6092.569
S2	4183.734	6131.500
S2	4222.771	6197.026
S2	4229.742	6251.399
S2	4270.173	6273.706
S2	4296.663	6309.955
S2	4344.065	6332.261
S2	4413.774	6336.444
S2	4427.715	6351.780
S2	4431.898	6386.634
S2	4496.891	6427.817
S2	4577.009	6422.243
S2	4628.563	6440.357
S2	4707.984	6452.201
S2	4734.505	6467.960
S2	4756.787	6473.290
S2	4813.948	6446.801
S2	4815.342	6411.946
S2	4854.379	6388.245
S2	4858.562	6292.047
S2	4911.540	6241.857
S2	4970.096	6243.251
S2	5042.593	6269.740
S2	5095.572	6266.952

S2	5122.061	6279.499
S2	5163.156	6273.889
S2	5170.819	6300.363
S2	5193.810	6307.330
S2	5209.327	6272.248
S2	5251.153	6266.672
S2	5269.277	6238.788
S2	5354.985	6220.458
S2	5351.942	6255.447
S2	5368.676	6269.138
S3	5508.801	4180.626
S3	5505.837	4180.102
S3	5502.872	4179.579
S3	5496.943	4178.533
S3	5485.086	4176.441
S3	5461.371	4172.256
S3	5416.731	4113.665
S3	5344.191	4088.555
S3	5327.451	4161.096
S3	5282.811	4172.256
S3	5263.281	4155.516
S3	5196.321	4138.776
S3	5062.401	4166.676
S3	4998.231	4186.206
S3	4911.741	4261.536
S3	4914.531	4283.856
S3	4889.421	4317.336
S3	4853.151	4325.706
S3	4805.721	4378.716
S3	4735.971	4353.606
S3	4710.861	4356.396
S3	4685.751	4378.716
S3	4655.061	4389.876
S3	4643.901	4431.726
S3	4610.421	4465.206
S3	4540.671	4526.586
S3	4509.981	4543.326
S3	4493.241	4582.386
S3	4443.021	4629.816
S3	4376.060	4640.976
S3	4356.530	4613.076
S3	4328.630	4627.026
S3	4289.570	4610.286
S3	4281.200	4582.386
S3	4233.770	4526.586
S3	4130.540	4537.746
S3	4127.750	4579.596
S3	4091.480	4565.646
S3	3991.040	4635.396
S3	3943.610	4652.136
S3	3935.240	4688.406
S3	3957.560	4727.466
S3	3890.600	4755.366
S3	3882.230	4744.206
S3	3804.110	4744.206
S3	3784.580	4816.746

S3	3837.590	4844.646
S3	3898.970	4836.276
S3	4071.950	4872.546
S3	4200.290	4866.966
S3	4320.260	4841.856
S3	4610.421	4813.956
S3	4649.481	4825.116
S3	4691.331	4850.226
S3	4744.341	4925.556
S3	4814.091	5031.576
S3	4945.221	5285.466
S3	4992.651	5321.736
S3	5009.391	5349.636
S3	5129.361	5346.846
S3	5137.731	5224.086
S3	5179.581	5173.866
S3	5210.271	5129.226
S3	5213.061	5031.576
S3	5240.961	4998.096
S3	5271.651	5006.466
S3	5313.501	4961.826
S3	5352.561	4939.506
S3	5391.621	4914.396
S3	5464.161	4889.286
S3	5494.851	4886.496
S3	5508.801	4858.596
S3	5553.441	4844.646
S3	5603.661	4797.216
S3	5656.671	4780.476
S3	5757.111	4721.886
S3	5790.591	4668.876
S3	5818.491	4685.616
S3	5849.181	4666.086
S3	5893.821	4663.296
S3	5963.571	4624.236
S3	6002.631	4571.226
S3	6024.951	4523.796
S3	6111.441	4518.216
S3	6061.221	4473.576
S3	5977.521	4451.256
S3	5896.611	4448.466
S3	5832.441	4428.936
S3	5796.171	4384.296
S3	5796.171	4272.696
S3	5754.321	4278.276
S3	5715.261	4261.536
S3	5678.991	4278.276
S3	5631.561	4244.796
S3	5592.501	4191.786

::Storage Node	X-Coord	Y-Coord
Storage1	5785.885	4351.875
Storage1	5785.885	4351.875
Storage1	5791.462	4323.991
Storage1	5790.068	4300.290

Storage1	5787.280	4282.166
Storage1	5767.761	4266.830
Storage1	5696.658	4261.253
Storage1	5583.730	4237.552
Storage1	5494.502	4245.917
Storage1	5394.121	4262.648
Storage1	5388.545	4286.349
Storage1	5377.391	4300.290
Storage1	5357.873	4303.079
Storage1	5329.989	4301.685
Storage1	5300.712	4304.473
Storage1	5271.434	4325.386
Storage1	5247.733	4343.510
Storage1	5218.455	4346.298
Storage1	5222.638	4376.970
Storage1	5214.273	4402.065
Storage1	5215.667	4434.131
Storage1	5265.857	4435.526
Storage1	5327.201	4414.613
Storage1	5348.114	4418.795
Storage1	5392.727	4411.825
Storage1	5410.852	4399.277
Storage1	5462.436	4395.094
Storage1	5466.619	4413.219
Storage1	5486.137	4424.372
Storage1	5529.357	4417.401
Storage1	5536.328	4400.671
Storage1	5550.269	4395.094
Storage1	5640.891	4395.094
Storage1	5653.438	4410.430
Storage1	5681.322	4414.613
Storage1	5693.870	4396.489
Storage1	5720.359	4383.941
Storage1	5741.272	4382.547
Storage1	5771.944	4386.729
Storage1	5791.462	4372.788
Storage1	5784.491	4349.087

[SYMBOLS]

::Gage	X-Coord	Y-Coord
::-----	-----	-----
Gage1	5396.648	7564.246

[BACKDROP]

FILE "C:\Users\cwebster\GEI Consultants, Inc\2201970\_MNDNR Tischer Creek Watershed - General\Tischer  
FS\Modeling\TischerCreek\_SWMM\SWMM\_Background\_Map.jpg"  
DIMENSIONS -1470.588 0.000 11470.588 10000.000



# Alternative 4 - Open-Bottom Culvert SWMM Model Input:

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.2)

\*\*\*\*\*

## Analysis Options

\*\*\*\*\*

Flow Units ..... CFS  
Process Models:  
  Rainfall/Runoff ..... YES  
  RDII ..... NO  
  Snowmelt ..... NO  
  Groundwater ..... YES  
  Flow Routing ..... YES  
  Ponding Allowed ..... YES  
  Water Quality ..... NO  
Infiltration Method ..... GREEN\_AMPT  
Flow Routing Method ..... DYNWAVE  
Surcharge Method ..... EXTRAN  
Starting Date ..... 09/22/2023 00:00:00  
Ending Date ..... 09/25/2023 23:55:00  
Antecedent Dry Days ..... 0.0  
Report Time Step ..... 00:15:00  
Wet Time Step ..... 00:05:00  
Dry Time Step ..... 01:00:00  
Routing Time Step ..... 20.00 sec  
Variable Time Step ..... YES  
Maximum Trials ..... 8  
Number of Threads ..... 1  
Head Tolerance ..... 0.005000 ft

	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
Total Precipitation .....	1214.161	6.410
Evaporation Loss .....	3.525	0.019
Infiltration Loss .....	1015.370	5.361
Surface Runoff .....	195.842	1.034
Final Storage .....	0.000	0.000
Continuity Error (%) .....	-0.047	

	Volume	Depth
Groundwater Continuity	acre-feet	inches
Initial Storage .....	4582.700	24.194
Infiltration .....	1015.370	5.361
Upper Zone ET .....	18.881	0.100
Lower Zone ET .....	14.877	0.079
Deep Percolation .....	16.514	0.087
Groundwater Flow .....	846.811	4.471
Final Storage .....	4701.302	24.820
Continuity Error (%) .....	-0.006	

	Volume acre-feet	Volume 10 <sup>6</sup> gal
Flow Routing Continuity		
Dry Weather Inflow .....	0.000	0.000
Wet Weather Inflow .....	195.655	63.757
Groundwater Inflow .....	846.801	275.943
RDII Inflow .....	0.000	0.000
External Inflow .....	0.000	0.000
External Outflow .....	762.285	248.402
Flooding Loss .....	279.787	91.173
Evaporation Loss .....	0.518	0.169
Exfiltration Loss .....	0.000	0.000
Initial Stored Volume ....	0.077	0.025
Final Stored Volume .....	0.687	0.224
Continuity Error (%) .....	-0.071	

\*\*\*\*\*

#### Highest Continuity Errors

\*\*\*\*\*

Node J37 (13.78%)

\*\*\*\*\*

#### Time-Step Critical Elements

\*\*\*\*\*

Link C31 (99.21%)

\*\*\*\*\*

#### Highest Flow Instability Indexes

\*\*\*\*\*

Link C22 (1)

\*\*\*\*\*

#### Most Frequent Nonconverging Nodes

\*\*\*\*\*

Convergence obtained at all time steps.

\*\*\*\*\*

#### Routing Time Step Summary

\*\*\*\*\*

Minimum Time Step : 3.11 sec  
Average Time Step : 8.97 sec  
Maximum Time Step : 20.00 sec  
% of Time in Steady State : 0.00  
Average Iterations per Step : 2.00  
% of Steps Not Converging : 0.00  
Time Step Frequencies :  
20.000 - 9.564 sec : 44.40 %  
9.564 - 4.573 sec : 21.83 %  
4.573 - 2.187 sec : 33.77 %

2.187 - 1.046 sec : 0.00 %  
 1.046 - 0.500 sec : 0.00 %

\*\*\*\*\*  
 Subcatchment Runoff Summary  
 \*\*\*\*\*

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10 <sup>6</sup> gal	Peak Runoff CFS	Runoff Coeff
S1	6.41	0.00	0.02	5.69	0.27	0.44	0.71	31.95	1058.48	0.110
S2	6.41	0.00	0.03	4.11	0.34	1.94	2.28	26.72	846.03	0.355
S3	6.41	0.00	0.02	5.32	0.63	0.44	1.08	5.15	285.76	0.168

\*\*\*\*\*  
 Groundwater Summary  
 \*\*\*\*\*

Subcatchment	Total Infil in	Total Evap in	Total Lower Seepage in	Maximum Lateral Outflow in	Maximum Lateral Outflow CFS	Average Upper Moist. ft	Average Water Table ft	Final Upper Moist. ft	Final Water Table ft
S1	5.69	0.18	0.08	4.70	964.79	0.32	1326.17	0.32	1326.01
S2	4.11	0.18	0.08	3.12	104.73	0.32	1293.48	0.32	1293.34
S3	5.32	0.17	0.13	4.98	68.73	0.30	1203.08	0.30	1202.89

\*\*\*\*\*  
 Node Depth Summary  
 \*\*\*\*\*

Node	Average Depth Type	Maximum Depth Feet	Maximum HGL Feet	Time of Occurrence days	Max Max hr:min	Reported Max Depth Feet
J7	JUNCTION	0.00	0.00	1317.48	0 00:00	0.00
J8	JUNCTION	0.00	0.00	1391.57	0 00:00	0.00
J9	JUNCTION	2.61	6.75	1309.57	0 12:25	6.73
J11	JUNCTION	0.00	0.00	1302.54	0 00:00	0.00
J14	JUNCTION	1.94	4.80	1252.94	0 12:59	4.80
J15	JUNCTION	0.00	0.00	1282.57	0 00:00	0.00
J16	JUNCTION	1.80	4.48	1217.78	0 13:04	4.46
J34	JUNCTION	2.44	4.74	1194.86	0 14:43	4.74
J35	JUNCTION	0.00	0.00	1317.03	0 00:00	0.00
J36	JUNCTION	0.00	0.00	1313.22	0 00:00	0.00
J37	JUNCTION	0.18	1.59	1309.42	0 12:55	1.57
J38	JUNCTION	2.39	5.67	1304.60	0 12:32	5.65
J39	JUNCTION	2.15	5.15	1298.46	0 12:49	5.11
J40	JUNCTION	1.55	4.21	1288.58	0 13:02	4.20

J41	JUNCTION	2.09	5.17	1235.58	0	13:00	5.17
J42	JUNCTION	1.26	2.48	1205.34	0	13:13	2.48
J43	JUNCTION	0.00	0.00	1367.09	0	00:00	0.00
J44	JUNCTION	2.76	9.04	1335.02	0	14:50	9.04
J45	JUNCTION	2.95	5.56	1314.55	0	13:09	5.56
J46	JUNCTION	0.00	0.00	1236.50	0	00:00	0.00
Out2	OUTFALL	1.20	2.75	1189.45	0	14:43	2.75
Storage1	STORAGE	3.60	8.85	1199.85	0	14:40	8.85

\*\*\*\*\*  
Node Inflow Summary  
\*\*\*\*\*

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Maximum Time of Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
J7	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
J8	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
J9	JUNCTION	1058.48	1174.75	0 12:15	31.9	156	-0.325
J11	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
J14	JUNCTION	846.03	1196.67	0 12:57	26.7	219	-0.017
J15	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
J16	JUNCTION	0.00	1193.60	0 13:01	0	219	0.027
J34	JUNCTION	0.00	647.54	0 14:40	0	248	0.008
J35	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
J36	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
J37	JUNCTION	0.00	76.00	0 12:28	0	1.25	15.988
J38	JUNCTION	0.00	776.29	0 12:29	0	156	-0.121
J39	JUNCTION	104.73	873.07	0 12:41	37.2	193	0.125
J40	JUNCTION	0.00	855.45	0 12:55	0	193	0.103
J41	JUNCTION	0.00	1193.46	0 12:59	0	219	-0.018
J42	JUNCTION	303.63	1235.67	0 13:07	29.3	248	-0.239
J43	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
J44	JUNCTION	964.79	964.79	0 15:25	215	215	-0.008
J45	JUNCTION	0.00	661.63	0 15:41	0	197	0.053
J46	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
Out2	OUTFALL	0.00	647.36	0 14:43	0	248	0.000
Storage1	STORAGE	0.00	1222.46	0 13:13	0	249	0.220

\*\*\*\*\*  
Node Surcharge Summary  
\*\*\*\*\*

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Max. Height Hours Surcharged	Min. Depth Above Crown Feet	Min. Depth Below Rim Feet
J44	JUNCTION	3.05	0.000	0.000
J45	JUNCTION	10.32	0.000	0.000

\*\*\*\*\*  
Node Flooding Summary  
\*\*\*\*\*

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Total Maximum				
	Maximum Hours Flooded	Rate CFS	Time of Max Occurrence days hr:min	Maximum Flood Volume 10^6 gal	Ponded Depth Feet
J44	3.04	303.15	0 15:25	17.528	0.000
J45	10.31	419.66	0 17:22	73.637	0.000

\*\*\*\*\*  
Storage Volume Summary  
\*\*\*\*\*

Storage Unit	Average Volume 1000 ft <sup>3</sup>	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft <sup>3</sup>	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
Storage1	239.538	3.7	0.0	0.0	1284.682	19.7	0 14:40	647.54

\*\*\*\*\*  
Outfall Loading Summary  
\*\*\*\*\*

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
Out2	99.99	204.75	647.36	248.383
System	99.99	204.75	647.36	248.383

\*\*\*\*\*  
Link Flow Summary  
\*\*\*\*\*

Link	Link Type	Maximum  Flow  CFS	Time of Max Occurrence days hr:min	Maximum  Veloc  ft/sec	Maximum Full Flow	Max/ Full Depth	Max/ Full
C9	CHANNEL	0.00	0 00:00	0.00	0.00	0.00	0.00
C10	CHANNEL	0.00	0 00:00	0.00	0.00	0.00	0.00
C11	CHANNEL	0.00	0 00:00	0.00	0.00	0.06	0.06
C12	CHANNEL	76.00	0 12:28	0.53	0.06	0.65	0.65

C13	CHANNEL	776.29	0	12:29	2.52	0.03	0.34
C14	CHANNEL	844.60	0	12:40	2.47	0.01	0.26
C15	CHANNEL	855.45	0	12:55	2.90	0.05	0.38
C16	CHANNEL	833.87	0	13:02	5.54	0.00	0.11
C17	CHANNEL	1193.46	0	12:59	5.31	0.03	0.30
C18	CHANNEL	1193.60	0	13:01	6.20	0.04	0.29
C19	CHANNEL	1191.17	0	13:07	2.27	0.10	0.45
C20	CHANNEL	1222.46	0	13:13	3.19	0.01	0.27
C22	CHANNEL	647.36	0	14:43	2.79	0.37	0.63
C23	CHANNEL	0.00	0	00:00	0.00	0.00	0.00
C24	CHANNEL	0.00	0	00:00	0.00	0.00	0.50
C25	CHANNEL	661.63	0	15:41	4.41	1.10	1.00
C26	CHANNEL	261.13	0	14:23	3.30	1.04	1.00
C27	CHANNEL	0.00	0	00:00	0.00	0.00	0.40
C28	CHANNEL	0.00	0	00:00	0.00	0.00	0.00
C29	CHANNEL	0.00	0	00:00	0.00	0.00	0.50
C30	CHANNEL	0.00	0	00:00	0.00	0.00	0.14
C31	CONDUIT	638.90	0	14:40	8.99	1.90	0.82
1	WEIR	8.64	0	14:40		0.03	

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#### Flow Classification Summary

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Conduit	Adjusted ----- Fraction of Time in Flow Class -----									
	/Actual Length	Up Dry	Down Dry	Sub Dry	Sup Crit	Up Crit	Down Crit	Norm Crit	Inlet Ltd	Inlet Ctrl
C9	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C10	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C11	1.00	0.13	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C12	1.00	0.00	0.12	0.00	0.87	0.00	0.00	0.00	0.86	0.00
C13	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.06	0.00
C14	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.20	0.00
C15	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00
C16	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.98	0.00
C17	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
C18	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.08	0.00
C19	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.65	0.00
C20	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.92	0.00
C22	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
C23	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C24	1.00	0.09	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C25	1.00	0.09	0.00	0.00	0.91	0.00	0.00	0.00	0.84	0.00
C26	1.00	0.00	0.09	0.00	0.91	0.00	0.00	0.00	0.04	0.00
C27	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C28	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C29	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C30	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C31	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00

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#### Conduit Surge Summary

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Conduit	Hours		Hours		Capacity Normal Flow	Limited
	----- Hours Full ----- Both Ends	Upstream	----- Dnstream	Above Full		
C12	0.01	0.01	2.09	0.01	0.01	
C25	5.30	5.30	10.31	5.30	5.30	
C26	1.39	11.40	2.36	1.00	0.47	
C31	0.01	4.03	0.01	13.17	0.01	

Analysis begun on: Mon Feb 12 08:11:50 2024

Analysis ended on: Mon Feb 12 08:11:50 2024

Total elapsed time: < 1 sec