



61 Waverly St Hydrology

Prepared by Symmes, Maini & McKee

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Area Listing (selected nodes)

| Area (acres) | CN | Description (subcatchment-numbers) |
|-----------------|-----------|---|
| 0.031 | 61 | >75% Grass cover, Good, HSG B (EX 1.1) |
| 0.818 | 30 | Meadow, non-grazed, HSG A (EX 2.1, EX 4.1) |
| 0.081 | 58 | Meadow, non-grazed, HSG B (EX 4.1) |
| 0.047 | 98 | Paved parking, HSG A (EX 1.1, EX 4.1) |
| 8.240 | 30 | Woods, Good, HSG A (EX 2.1, EX 2.2, EX 3.1, EX 4.1, EX 4.2, EX 4.3, EX 5.1) |
| 0.867 | 55 | Woods, Good, HSG B (EX 4.2, EX 4.3) |
| 10.083 | 33 | TOTAL AREA |

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Ground Covers (selected nodes)

| HSG-A (acres) | HSG-B (acres) | HSG-C (acres) | HSG-D (acres) | Other (acres) | Total (acres) | Ground Cover | Subcatchment Numbers |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------------|--|
| 0.000 | 0.031 | 0.000 | 0.000 | 0.000 | 0.031 | >75% Grass cover, Good | EX 1.1 |
| 0.818 | 0.081 | 0.000 | 0.000 | 0.000 | 0.899 | Meadow, non-grazed | EX 2.1, EX 4.1 |
| 0.047 | 0.000 | 0.000 | 0.000 | 0.000 | 0.047 | Paved parking | EX 1.1, EX 4.1 |
| 8.240 | 0.867 | 0.000 | 0.000 | 0.000 | 9.107 | Woods, Good | EX 2.1, EX 2.2, EX 3.1, EX 4.1, EX 4.2, EX 4.3, EX 5.1 |
| 9.105 | 0.978 | 0.000 | 0.000 | 0.000 | 10.083 | TOTAL AREA | |

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Type III 24-hr 2-yr Rainfall=3.34"

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Time span=0.00-96.00 hrs, dt=0.01 hrs, 9601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

| | |
|---|---|
| Subcatchment EX 1.1: EX 1.1 | Runoff Area=2,705 sf 50.28% Impervious Runoff Depth=1.51" Tc=6.0 min CN=80 Runoff=0.11 cfs 0.008 af |
| Subcatchment EX 2.1: EX 2.1 | Runoff Area=114,208 sf 0.00% Impervious Runoff Depth=0.00" Flow Length=320' Tc=12.7 min CN=30 Runoff=0.00 cfs 0.000 af |
| Subcatchment EX 2.2: EX 2.2 | Runoff Area=26,810 sf 0.00% Impervious Runoff Depth=0.00" Flow Length=181' Tc=13.9 min CN=30 Runoff=0.00 cfs 0.000 af |
| Subcatchment EX 3.1: EX 3.1 | Runoff Area=12,253 sf 0.00% Impervious Runoff Depth=0.00" Tc=6.0 min CN=30 Runoff=0.00 cfs 0.000 af |
| Subcatchment EX 4.1: EX 4.1 | Runoff Area=91,884 sf 0.75% Impervious Runoff Depth=0.00" Flow Length=535' Tc=14.2 min CN=32 Runoff=0.00 cfs 0.000 af |
| Subcatchment EX 4.2: EX 4.2 | Runoff Area=18,374 sf 0.00% Impervious Runoff Depth=0.00" Flow Length=193' Tc=10.4 min CN=30 Runoff=0.00 cfs 0.000 af |
| Subcatchment EX 4.3: EX 4.3 | Runoff Area=162,791 sf 0.00% Impervious Runoff Depth=0.00" Flow Length=133' Tc=14.0 min CN=36 Runoff=0.00 cfs 0.000 af |
| Subcatchment EX 5.1: EX 5.1 | Runoff Area=10,198 sf 0.00% Impervious Runoff Depth=0.00" Flow Length=50' Slope=0.0400 '/' Tc=9.3 min CN=30 Runoff=0.00 cfs 0.000 af |
| Link DP-1(EX): 12" RCP WAVERLY ST | Inflow=0.11 cfs 0.008 af Primary=0.11 cfs 0.008 af |
| Link DP-2(EX): WETLAND | Inflow=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af |
| Link DP-3(EX): NIKKIE ST CULVERT | Inflow=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af |
| Link DP-4(EX): WAVERLY STREET SHEET FLOW | Inflow=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af |
| Link DP-5(EX): UNION ST DRAIN SYSTEM | Inflow=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af |

Total Runoff Area = 10.083 ac Runoff Volume = 0.008 af Average Runoff Depth = 0.01"
99.53% Pervious = 10.036 ac 0.47% Impervious = 0.047 ac

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Type III 24-hr 10-yr Rainfall=5.23"

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Time span=0.00-96.00 hrs, dt=0.01 hrs, 9601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

| | |
|---|---|
| Subcatchment EX 1.1: EX 1.1 | Runoff Area=2,705 sf 50.28% Impervious Runoff Depth=3.09" Tc=6.0 min CN=80 Runoff=0.23 cfs 0.016 af |
| Subcatchment EX 2.1: EX 2.1 | Runoff Area=114,208 sf 0.00% Impervious Runoff Depth=0.01" Flow Length=320' Tc=12.7 min CN=30 Runoff=0.01 cfs 0.003 af |
| Subcatchment EX 2.2: EX 2.2 | Runoff Area=26,810 sf 0.00% Impervious Runoff Depth=0.01" Flow Length=181' Tc=13.9 min CN=30 Runoff=0.00 cfs 0.001 af |
| Subcatchment EX 3.1: EX 3.1 | Runoff Area=12,253 sf 0.00% Impervious Runoff Depth=0.01" Tc=6.0 min CN=30 Runoff=0.00 cfs 0.000 af |
| Subcatchment EX 4.1: EX 4.1 | Runoff Area=91,884 sf 0.75% Impervious Runoff Depth=0.04" Flow Length=535' Tc=14.2 min CN=32 Runoff=0.01 cfs 0.008 af |
| Subcatchment EX 4.2: EX 4.2 | Runoff Area=18,374 sf 0.00% Impervious Runoff Depth=0.01" Flow Length=193' Tc=10.4 min CN=30 Runoff=0.00 cfs 0.000 af |
| Subcatchment EX 4.3: EX 4.3 | Runoff Area=162,791 sf 0.00% Impervious Runoff Depth=0.14" Flow Length=133' Tc=14.0 min CN=36 Runoff=0.07 cfs 0.045 af |
| Subcatchment EX 5.1: EX 5.1 | Runoff Area=10,198 sf 0.00% Impervious Runoff Depth=0.01" Flow Length=50' Slope=0.0400 '/' Tc=9.3 min CN=30 Runoff=0.00 cfs 0.000 af |
| Link DP-1(EX): 12" RCP WAVERLY ST | Inflow=0.23 cfs 0.016 af Primary=0.23 cfs 0.016 af |
| Link DP-2(EX): WETLAND | Inflow=0.01 cfs 0.004 af Primary=0.01 cfs 0.004 af |
| Link DP-3(EX): NIKKIE ST CULVERT | Inflow=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af |
| Link DP-4(EX): WAVERLY STREET SHEET FLOW | Inflow=0.08 cfs 0.053 af Primary=0.08 cfs 0.053 af |
| Link DP-5(EX): UNION ST DRAIN SYSTEM | Inflow=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af |

Total Runoff Area = 10.083 ac Runoff Volume = 0.073 af Average Runoff Depth = 0.09"
99.53% Pervious = 10.036 ac 0.47% Impervious = 0.047 ac

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Type III 24-hr 100-yr Rainfall=8.22"

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Time span=0.00-96.00 hrs, dt=0.01 hrs, 9601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

| | |
|---|---|
| Subcatchment EX 1.1: EX 1.1 | Runoff Area=2,705 sf 50.28% Impervious Runoff Depth=5.83" Tc=6.0 min CN=80 Runoff=0.42 cfs 0.030 af |
| Subcatchment EX 2.1: EX 2.1 | Runoff Area=114,208 sf 0.00% Impervious Runoff Depth=0.47" Flow Length=320' Tc=12.7 min CN=30 Runoff=0.35 cfs 0.103 af |
| Subcatchment EX 2.2: EX 2.2 | Runoff Area=26,810 sf 0.00% Impervious Runoff Depth=0.47" Flow Length=181' Tc=13.9 min CN=30 Runoff=0.08 cfs 0.024 af |
| Subcatchment EX 3.1: EX 3.1 | Runoff Area=12,253 sf 0.00% Impervious Runoff Depth=0.47" Tc=6.0 min CN=30 Runoff=0.04 cfs 0.011 af |
| Subcatchment EX 4.1: EX 4.1 | Runoff Area=91,884 sf 0.75% Impervious Runoff Depth=0.62" Flow Length=535' Tc=14.2 min CN=32 Runoff=0.49 cfs 0.110 af |
| Subcatchment EX 4.2: EX 4.2 | Runoff Area=18,374 sf 0.00% Impervious Runoff Depth=0.47" Flow Length=193' Tc=10.4 min CN=30 Runoff=0.06 cfs 0.017 af |
| Subcatchment EX 4.3: EX 4.3 | Runoff Area=162,791 sf 0.00% Impervious Runoff Depth=0.97" Flow Length=133' Tc=14.0 min CN=36 Runoff=1.83 cfs 0.302 af |
| Subcatchment EX 5.1: EX 5.1 | Runoff Area=10,198 sf 0.00% Impervious Runoff Depth=0.47" Flow Length=50' Slope=0.0400 '/' Tc=9.3 min CN=30 Runoff=0.03 cfs 0.009 af |
| Link DP-1(EX): 12" RCP WAVERLY ST | Inflow=0.42 cfs 0.030 af Primary=0.42 cfs 0.030 af |
| Link DP-2(EX): WETLAND | Inflow=0.43 cfs 0.127 af Primary=0.43 cfs 0.127 af |
| Link DP-3(EX): NIKKIE ST CULVERT | Inflow=0.04 cfs 0.011 af Primary=0.04 cfs 0.011 af |
| Link DP-4(EX): WAVERLY STREET SHEET FLOW | Inflow=2.32 cfs 0.428 af Primary=2.32 cfs 0.428 af |
| Link DP-5(EX): UNION ST DRAIN SYSTEM | Inflow=0.03 cfs 0.009 af Primary=0.03 cfs 0.009 af |

Total Runoff Area = 10.083 ac Runoff Volume = 0.605 af Average Runoff Depth = 0.72"
99.53% Pervious = 10.036 ac 0.47% Impervious = 0.047 ac

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Type III 24-hr 100-yr Rainfall=8.22"

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Summary for Subcatchment EX 1.1: EX 1.1

Runoff = 0.42 cfs @ 12.09 hrs, Volume= 0.030 af, Depth= 5.83"

Routed to Link DP-1(EX) : 12" RCP WAVERLY ST

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-yr Rainfall=8.22"

| Area (sf) | CN | Description |
|-----------|----|-------------------------------|
| 1,345 | 61 | >75% Grass cover, Good, HSG B |
| 1,360 | 98 | Paved parking, HSG A |
| 2,705 | 80 | Weighted Average |
| 1,345 | | 49.72% Pervious Area |
| 1,360 | | 50.28% Impervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|----------------------|
| 6.0 | | | | | Direct Entry, |

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Summary for Subcatchment EX 2.1: EX 2.1

Runoff = 0.35 cfs @ 12.50 hrs, Volume= 0.103 af, Depth= 0.47"

Routed to Link DP-2(EX) : WETLAND

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-yr Rainfall=8.22"

| Area (sf) | CN | Description |
|-----------|----|---------------------------|
| 7,532 | 30 | Meadow, non-grazed, HSG A |
| 106,676 | 30 | Woods, Good, HSG A |
| 114,208 | 30 | Weighted Average |
| 114,208 | | 100.00% Pervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 9.3 | 50 | 0.0400 | 0.09 | | Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.20" |
| 3.4 | 270 | 0.0700 | 1.32 | | Shallow Concentrated Flow, Woodland Kv= 5.0 fps |
| 12.7 | 320 | Total | | | |

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Summary for Subcatchment EX 2.2: EX 2.2

Runoff = 0.08 cfs @ 12.52 hrs, Volume= 0.024 af, Depth= 0.47"

Routed to Link DP-2(EX) : WETLAND

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-yr Rainfall=8.22"

| Area (sf) | CN | Description |
|-----------|----|-----------------------|
| 26,810 | 30 | Woods, Good, HSG A |
| 26,810 | | 100.00% Pervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 12.3 | 50 | 0.0200 | 0.07 | | Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.20" |
| 1.6 | 131 | 0.0750 | 1.37 | | Shallow Concentrated Flow, Woodland Kv= 5.0 fps |
| 13.9 | 181 | Total | | | |

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Type III 24-hr 100-yr Rainfall=8.22"

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Summary for Subcatchment EX 3.1: EX 3.1

Runoff = 0.04 cfs @ 12.40 hrs, Volume= 0.011 af, Depth= 0.47"

Routed to Link DP-3(EX) : NIKKIE ST CULVERT

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Type III 24-hr 100-yr Rainfall=8.22"

| Area (sf) | CN | Description |
|-----------|----|-----------------------|
| 12,253 | 30 | Woods, Good, HSG A |
| 12,253 | | 100.00% Pervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|----------------------|
| 6.0 | | | | | Direct Entry, |

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Type III 24-hr 100-yr Rainfall=8.22"

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Summary for Subcatchment EX 4.1: EX 4.1

Runoff = 0.49 cfs @ 12.47 hrs, Volume= 0.110 af, Depth= 0.62"

Routed to Link DP-4(EX) : WAVERLY STREET SHEET FLOW

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-yr Rainfall=8.22"

| Area (sf) | CN | Description |
|-----------|----|---------------------------|
| 688 | 98 | Paved parking, HSG A |
| 28,097 | 30 | Meadow, non-grazed, HSG A |
| 3,519 | 58 | Meadow, non-grazed, HSG B |
| 59,580 | 30 | Woods, Good, HSG A |
| 91,884 | 32 | Weighted Average |
| 91,196 | | 99.25% Pervious Area |
| 688 | | 0.75% Impervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 9.9 | 50 | 0.0350 | 0.08 | | Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.20" |
| 3.5 | 333 | 0.1000 | 1.58 | | Shallow Concentrated Flow, Woodland Kv= 5.0 fps |
| 0.8 | 152 | 0.0400 | 3.22 | | Shallow Concentrated Flow, Unpaved Kv= 16.1 fps |
| 14.2 | 535 | Total | | | |

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Summary for Subcatchment EX 4.2: EX 4.2

Runoff = 0.06 cfs @ 12.47 hrs, Volume= 0.017 af, Depth= 0.47"

Routed to Link DP-4(EX) : WAVERLY STREET SHEET FLOW

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
 Type III 24-hr 100-yr Rainfall=8.22"

| Area (sf) | CN | Description |
|-----------|----|-----------------------|
| 18,168 | 30 | Woods, Good, HSG A |
| 206 | 55 | Woods, Good, HSG B |
| 18,374 | 30 | Weighted Average |
| 18,374 | | 100.00% Pervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 8.5 | 50 | 0.0500 | 0.10 | | Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.20" |
| 1.9 | 143 | 0.0650 | 1.27 | | Shallow Concentrated Flow, Woodland Kv= 5.0 fps |
| 10.4 | 193 | Total | | | |

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Type III 24-hr 100-yr Rainfall=8.22"

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Summary for Subcatchment EX 4.3: EX 4.3

Runoff = 1.83 cfs @ 12.34 hrs, Volume= 0.302 af, Depth= 0.97"

Routed to Link DP-4(EX) : WAVERLY STREET SHEET FLOW

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-yr Rainfall=8.22"

| Area (sf) | CN | Description |
|-----------|----|-----------------------|
| 125,242 | 30 | Woods, Good, HSG A |
| 37,549 | 55 | Woods, Good, HSG B |
| 162,791 | 36 | Weighted Average |
| 162,791 | | 100.00% Pervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 12.3 | 50 | 0.0200 | 0.07 | | Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.20" |
| 1.7 | 83 | 0.0250 | 0.79 | | Shallow Concentrated Flow, Woodland Kv= 5.0 fps |
| 14.0 | 133 | Total | | | |

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Type III 24-hr 100-yr Rainfall=8.22"

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Summary for Subcatchment EX 5.1: EX 5.1

Runoff = 0.03 cfs @ 12.45 hrs, Volume= 0.009 af, Depth= 0.47"

Routed to Link DP-5(EX) : UNION ST DRAIN SYSTEM

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-yr Rainfall=8.22"

| Area (sf) | CN | Description |
|-----------|----|-----------------------|
| 10,198 | 30 | Woods, Good, HSG A |
| 10,198 | | 100.00% Pervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|----------|---------------|---------------|-------------------|----------------|--|
| 9.3 | 50 | 0.0400 | 0.09 | | Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.20" |

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Type III 24-hr 100-yr Rainfall=8.22"

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Summary for Link DP-1(EX): 12" RCP WAVERLY ST

Inflow Area = 0.062 ac, 50.28% Impervious, Inflow Depth = 5.83" for 100-yr event
Inflow = 0.42 cfs @ 12.09 hrs, Volume= 0.030 af
Primary = 0.42 cfs @ 12.09 hrs, Volume= 0.030 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

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Type III 24-hr 100-yr Rainfall=8.22"

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Summary for Link DP-2(EX): WETLAND

Inflow Area = 3.237 ac, 0.00% Impervious, Inflow Depth = 0.47" for 100-yr event
Inflow = 0.43 cfs @ 12.51 hrs, Volume= 0.127 af
Primary = 0.43 cfs @ 12.51 hrs, Volume= 0.127 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

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Summary for Link DP-3(EX): NIKKIE ST CULVERT

Inflow Area = 0.281 ac, 0.00% Impervious, Inflow Depth = 0.47" for 100-yr event
Inflow = 0.04 cfs @ 12.40 hrs, Volume= 0.011 af
Primary = 0.04 cfs @ 12.40 hrs, Volume= 0.011 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

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Summary for Link DP-4(EX): WAVERLY STREET SHEET FLOW

Inflow Area = 6.268 ac, 0.25% Impervious, Inflow Depth = 0.82" for 100-yr event
Inflow = 2.32 cfs @ 12.40 hrs, Volume= 0.428 af
Primary = 2.32 cfs @ 12.40 hrs, Volume= 0.428 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

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Type III 24-hr 100-yr Rainfall=8.22"

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Summary for Link DP-5(EX): UNION ST DRAIN SYSTEM

Inflow Area = 0.234 ac, 0.00% Impervious, Inflow Depth = 0.47" for 100-yr event
Inflow = 0.03 cfs @ 12.45 hrs, Volume= 0.009 af
Primary = 0.03 cfs @ 12.45 hrs, Volume= 0.009 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs