

Routing Diagram for 08077_Proposed-localprecipdata
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Page 2

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
60.062	74	>75% Grass cover, Good, HSG C (1.11S, 1.12S, 1.13S, 1.17S, 1.1S, 1.2S, 1.4S, 1.5S, 1.6S, 1.7S, 1.8S, 1.9S, 2.10S, 2.1S, 2.3S, 2.6S, 2.7S, 2.8S, 2.9S, 2aS, 2bS, 4.1S, 4.3S, 4.4S, 4.5S, 4.6S, 4.7S, 5.2S, 5.3S, 6.1S, 6.2S, 6.3S, 8.10S, 8.11S, 8.12S, 8.13S, 8.15S, 8.16S, 8.17S, 8.1S, 8.3S, 8.4S, 8.5S, 8.6S, 8.7S, 8.8S, 8.9S, 9.10S, 9.11S, 9.12S, 9.1S, 9.5S, 9.6S, 9.9S, 11.10S, 11.11S, 11.14S, 11.15S, 11.16S, 11.17S, 11.18S, 11.19S, 11.20S, 11.21S, 11.23S, 11.24S, 11.25S, 11.26S, 11.27S, 11.29S, 11.2S, 11.33S, 11.34S, 11.38S, 11.39S, 11.3S, 11.5S, 11.6S, 11.7S, 11.8S, 11.9S, 12.2S)
28.013	65	Brush, Good, HSG C (1.4S, 1.9S, 2.10S, 2.1S, 2.7S, 2.8S, 2.9S, 4.1S, 4.3S, 4.4S, 5.1S, 5.2S, 6.4S, 7.1S, 8.11S, 8.17S, 8.1S, 8.2S, 8.5S, 9.10S, 9.11S, 9.14S, 9.1S, 9.5S, 9.6S, 11.14S, 11.18S, 11.19S, 11.20S, 11.2S, 11.32S, 11.5S)
0.138	98	Driveway, extra imperv., HSG C (6.1S, 6.2S, 6.3S)
15.801	71	Meadow, non-grazed, HSG C (1.10S, 1.14S, 2.10S, 11.19S, 11.21S, 11.27S, 11.29S, 11.2S, 11.36S, 11.39S, 11.3S, 11.41S, 11.8S)
5.905	98	Paved parking & roofs (11.3S)
18.675	98	Paved parking, HSG C (1.10S, 1.11S, 1.12S, 1.15S, 1.6S, 1.7S, 1.9S, 2.10S, 2.2S, 2.4S, 2.5S, 4.2S, 4.3S, 4.4S, 8.10S, 8.12S, 8.13S, 8.15S, 8.16S, 8.17S, 8.3S, 8.4S, 8.6S, 8.7S, 8.9S, 9.12S, 9.13S, 9.1S, 9.5S, 9.6S, 11.10S, 11.11S, 11.13S, 11.16S, 11.17S, 11.23S, 11.24S, 11.26S, 11.27S, 11.28S, 11.40S, 12.2S, 12.3S)
4.538	98	Roofs, HSG C (1.12S, 1.15S, 1.16S, 6.1S, 6.2S, 6.3S, 8.17S, 8.2S, 8.6S, 8.7S, 9.13S, 11.10S, 11.11S, 11.17S, 11.27S, 11.4S)
0.622	98	Unconnected roofs, HSG C (9.10S)
293.877	70	Woods, Good, HSG C (1.17S, 1.1S, 1.2S, 1.3S, 1.4S, 1.5S, 1.6S, 1.8S, 1.9S, 2.10S, 2.1S, 2.3S, 2.6S, 2.7S, 2.8S, 2.9S, 2aS, 2bS, 3.1S, 4.1S, 4.3S, 4.4S, 4.6S, 4.7S, 4.8, 5.2S, 5.3S, 8.10S, 8.11S, 8.15S, 8.16S, 8.1S, 8.2S, 8.3S, 8.4S, 8.5S, 8.6S, 8.7S, 8.8S, 9.10S, 9.11S, 9.14S, 9.1S, 9.5S, 9.6S, 9.9S, 11.12S, 11.14S, 11.18S, 11.19S, 11.20S, 11.21S, 11.23S, 11.24S, 11.25S, 11.29S, 11.2S, 11.32S, 11.33S, 11.34S, 11.35S, 11.36S, 11.38S, 11.3S, 11.41S, 11.5S, 11.6S, 11.7S, 11.8S, 11.9S, 12.1S, 12.2S)
10.351	77	Woods, Good, HSG D (1.17S, 1.1S, 1.4S, 1.5S, 1.6S, 1.8S, 2.10S, 5.2S, 8.1S, 8.5S, 9.11S, 9.1S, 11.14S, 11.25S, 11.2S, 11.33S, 11.34S, 11.35S, 11.36S, 11.38S, 11.3S, 12.1S)
11.535	72	Woods/grass comb., Good, HSG C (5.1S, 11.15S)
0.149	79	Woods/grass comb., Good, HSG D (11.15S)
449.666	72	TOTAL AREA

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Page 3

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
433.261	HSG C	1.10S, 1.11S, 1.12S, 1.13S, 1.14S, 1.15S, 1.16S, 1.17S, 1.1S, 1.2S, 1.3S, 1.4S, 1.5S, 1.6S, 1.7S, 1.8S, 1.9S, 2.10S, 2.1S, 2.2S, 2.3S, 2.4S, 2.5S, 2.6S, 2.7S, 2.8S, 2.9S, 2aS, 2bS, 3.1S, 4.1S, 4.2S, 4.3S, 4.4S, 4.5S, 4.6S, 4.7S, 4.8, 5.1S, 5.2S, 5.3S, 6.1S, 6.2S, 6.3S, 6.4S, 7.1S, 8.10S, 8.11S, 8.12S, 8.13S, 8.15S, 8.16S, 8.17S, 8.1S, 8.2S, 8.3S, 8.4S, 8.5S, 8.6S, 8.7S, 8.8S, 8.9S, 9.10S, 9.11S, 9.12S, 9.13S, 9.14S, 9.1S, 9.5S, 9.6S, 9.9S, 11.10S, 11.11S, 11.12S, 11.13S, 11.14S, 11.15S, 11.16S, 11.17S, 11.18S, 11.19S, 11.20S, 11.21S, 11.23S, 11.24S, 11.25S, 11.26S, 11.27S, 11.28S, 11.29S, 11.2S, 11.32S, 11.33S, 11.34S, 11.35S, 11.36S, 11.38S, 11.39S, 11.3S, 11.40S, 11.41S, 11.4S, 11.5S, 11.6S, 11.7S, 11.8S, 11.9S, 12.1S, 12.2S, 12.3S
10.499	HSG D	1.17S, 1.1S, 1.4S, 1.5S, 1.6S, 1.8S, 2.10S, 5.2S, 8.1S, 8.5S, 9.11S, 9.1S, 11.14S, 11.15S, 11.25S, 11.2S, 11.33S, 11.34S, 11.35S, 11.36S, 11.38S, 11.3S, 12.1S
5.905	Other	11.3S
449.666		TOTAL AREA

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1.10S: Area 1.10	Runoff Area=10,640 sf 81.20% Impervious Runoff Depth=1.66" Tc=6.0 min CN=93 Runoff=0.51 cfs 0.034 af
Subcatchment 1.11S: Area 1.11	Runoff Area=13,460 sf 89.60% Impervious Runoff Depth=1.93" Flow Length=230' Tc=8.0 min CN=96 Runoff=0.67 cfs 0.050 af
Subcatchment 1.12S: Area 1.12	Runoff Area=35,190 sf 60.29% Impervious Runoff Depth=1.27" Flow Length=641' Tc=10.7 min CN=88 Runoff=1.07 cfs 0.086 af
Subcatchment 1.13S: Area 1.13	Runoff Area=53,050 sf 0.00% Impervious Runoff Depth=0.54" Flow Length=50' Slope=0.2500 1' Tc=6.0 min CN=74 Runoff=0.69 cfs 0.054 af
Subcatchment 1.14S: Area 1.14	Runoff Area=11,800 sf 0.00% Impervious Runoff Depth=0.43" Tc=6.0 min CN=71 Runoff=0.11 cfs 0.010 af
Subcatchment 1.15S: Area 1.15	Runoff Area=23,830 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=1.37 cfs 0.098 af
Subcatchment 1.16S: Area 1.16	Runoff Area=15,985 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.92 cfs 0.065 af
Subcatchment 1.17S: Area 1.17	Runoff Area=30,241 sf 0.00% Impervious Runoff Depth=0.58" Flow Length=465' Tc=6.0 min CN=75 Runoff=0.43 cfs 0.033 af
Subcatchment 1.1S: Area-1.1	Runoff Area=1,542,650 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=2,295' Tc=16.9 min CN=70 Runoff=7.97 cfs 1.165 af
Subcatchment 1.2S: Area 1.2	Runoff Area=436,779 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=1,510' Tc=12.8 min CN=70 Runoff=2.55 cfs 0.330 af
Subcatchment 1.3S: Area-1.3	Runoff Area=124,373 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=750' Tc=15.5 min CN=70 Runoff=0.67 cfs 0.094 af
Subcatchment 1.4S: Area 1.4	Runoff Area=345,904 sf 0.00% Impervious Runoff Depth=0.46" Flow Length=1,361' Tc=10.9 min CN=72 Runoff=2.79 cfs 0.306 af
Subcatchment 1.5S: Area 1.5	Runoff Area=750,276 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=1,965' Tc=18.0 min CN=70 Runoff=3.76 cfs 0.567 af
Subcatchment 1.6S: Area 1.6	Runoff Area=128,870 sf 1.08% Impervious Runoff Depth=0.50" Flow Length=465' Tc=6.0 min CN=73 Runoff=1.50 cfs 0.123 af
Subcatchment 1.7S: Area 1.7	Runoff Area=39,615 sf 92.98% Impervious Runoff Depth=1.93" Flow Length=1,245' Tc=6.0 min CN=96 Runoff=2.15 cfs 0.147 af
Subcatchment 1.8S: Area 1.8	Runoff Area=54,200 sf 0.00% Impervious Runoff Depth=0.54" Flow Length=140' Tc=6.0 min CN=74 Runoff=0.70 cfs 0.056 af

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Page 5

Subcatchment 1.9S: Area 1.9	Runoff Area=159,810 sf 18.28% Impervious Runoff Depth=0.58" Flow Length=730' Tc=6.0 min CN=75 Runoff=2.29 cfs 0.176 af
Subcatchment 2.10S: Area 2.10	Runoff Area=302,226 sf 1.05% Impervious Runoff Depth=0.46" Flow Length=965' Tc=13.8 min CN=72 Runoff=2.24 cfs 0.267 af
Subcatchment 2.1S: Area 2.1	Runoff Area=262,081 sf 0.00% Impervious Runoff Depth=0.36" Flow Length=1,585' Tc=15.2 min CN=69 Runoff=1.22 cfs 0.182 af
Subcatchment 2.2S: Area 2.2	Runoff Area=63,870 sf 100.00% Impervious Runoff Depth=2.14" Flow Length=1,910' Tc=6.0 min CN=98 Runoff=3.66 cfs 0.262 af
Subcatchment 2.3S: Area 2.3	Runoff Area=91,990 sf 0.00% Impervious Runoff Depth=0.50" Flow Length=208' Tc=6.0 min CN=73 Runoff=1.07 cfs 0.088 af
Subcatchment 2.4S: Area 2.4	Runoff Area=15,150 sf 100.00% Impervious Runoff Depth=2.14" Flow Length=885' Slope=0.0200 1/1' Tc=6.0 min CN=98 Runoff=0.87 cfs 0.062 af
Subcatchment 2.5S: Area 2.5	Runoff Area=8,000 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.46 cfs 0.033 af
Subcatchment 2.6S: Area 2.6	Runoff Area=229,805 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=862' Tc=9.9 min CN=71 Runoff=1.72 cfs 0.188 af
Subcatchment 2.7S: Area 2.7	Runoff Area=108,393 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=715' Tc=6.0 min CN=71 Runoff=0.98 cfs 0.089 af
Subcatchment 2.8S: Area 2.8	Runoff Area=28,100 sf 0.00% Impervious Runoff Depth=0.36" Flow Length=365' Tc=6.0 min CN=69 Runoff=0.19 cfs 0.020 af
Subcatchment 2.9S: Area 2.9	Runoff Area=138,145 sf 0.00% Impervious Runoff Depth=0.46" Flow Length=680' Tc=9.4 min CN=72 Runoff=1.20 cfs 0.122 af
Subcatchment 2aS: Area 2A	Runoff Area=55,140 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=185' Tc=7.7 min CN=71 Runoff=0.44 cfs 0.045 af
Subcatchment 2bS: Area 2b	Runoff Area=204,120 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=160' Tc=8.4 min CN=71 Runoff=1.60 cfs 0.167 af
Subcatchment 3.1S: Area 3.1	Runoff Area=105,215 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=595' Tc=6.0 min CN=70 Runoff=0.82 cfs 0.079 af
Subcatchment 4.1S: Area 4.1	Runoff Area=621,690 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=1,390' Tc=12.6 min CN=70 Runoff=3.66 cfs 0.469 af
Subcatchment 4.2S: Area 4.2	Runoff Area=32,235 sf 100.00% Impervious Runoff Depth=2.14" Flow Length=40' Slope=0.0200 1/1' Tc=6.0 min CN=98 Runoff=1.85 cfs 0.132 af
Subcatchment 4.3S: Area 4.3	Runoff Area=292,890 sf 8.33% Impervious Runoff Depth=0.54" Flow Length=1,060' Tc=6.6 min CN=74 Runoff=3.68 cfs 0.301 af

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Page 6

Subcatchment 4.4S: Area 4.4	Runoff Area=72,240 sf 10.38% Impervious Runoff Depth=0.50" Flow Length=380' Tc=6.1 min CN=73 Runoff=0.83 cfs 0.069 af
Subcatchment 4.5S: Area 4.5	Runoff Area=46,440 sf 0.00% Impervious Runoff Depth=0.54" Flow Length=30' Slope=0.1250 1/' Tc=6.0 min CN=74 Runoff=0.60 cfs 0.048 af
Subcatchment 4.6S: Area-4.6	Runoff Area=155,010 sf 0.00% Impervious Runoff Depth=0.46" Flow Length=900' Slope=0.1000 1/' Tc=6.0 min CN=72 Runoff=1.60 cfs 0.137 af
Subcatchment 4.7S: Area-4.7	Runoff Area=110,150 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=320' Tc=6.8 min CN=71 Runoff=0.95 cfs 0.090 af
Subcatchment 4.8: Area-4.8	Runoff Area=1,585 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=100' Slope=0.2200 1/' Tc=12.0 min CN=70 Runoff=0.01 cfs 0.001 af
Subcatchment 5.1S: Area-5.1	Runoff Area=553,165 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=2,200' Tc=10.9 min CN=71 Runoff=3.92 cfs 0.453 af
Subcatchment 5.2S: Area-5.2	Runoff Area=147,335 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=695' Tc=9.9 min CN=71 Runoff=1.10 cfs 0.121 af
Subcatchment 5.3S: Area 5.3	Runoff Area=382,265 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=1,528' Tc=7.6 min CN=70 Runoff=2.66 cfs 0.289 af
Subcatchment 6.1S: Area 6.1	Runoff Area=8,000 sf 81.25% Impervious Runoff Depth=1.75" Tc=6.0 min CN=94 Runoff=0.40 cfs 0.027 af
Subcatchment 6.2S: Area 6.2	Runoff Area=8,000 sf 81.25% Impervious Runoff Depth=1.75" Tc=6.0 min CN=94 Runoff=0.40 cfs 0.027 af
Subcatchment 6.3S: Area 6.3	Runoff Area=8,000 sf 81.25% Impervious Runoff Depth=1.75" Tc=6.0 min CN=94 Runoff=0.40 cfs 0.027 af
Subcatchment 6.4S: AREA 6.1	Runoff Area=66,488 sf 0.00% Impervious Runoff Depth=0.25" Flow Length=380' Tc=6.0 min CN=65 Runoff=0.18 cfs 0.032 af
Subcatchment 7.1S: Area-7	Runoff Area=105,675 sf 0.00% Impervious Runoff Depth=0.25" Flow Length=150' Tc=6.0 min CN=65 Runoff=0.28 cfs 0.051 af
Subcatchment 8.10S: Area 8.10	Runoff Area=212,018 sf 8.40% Impervious Runoff Depth=0.54" Flow Length=762' Tc=6.5 min CN=74 Runoff=2.68 cfs 0.218 af
Subcatchment 8.11S: Area-8.11	Runoff Area=121,400 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=585' Tc=6.0 min CN=70 Runoff=0.95 cfs 0.092 af
Subcatchment 8.12S: Area 8.12	Runoff Area=27,016 sf 65.89% Impervious Runoff Depth=1.42" Flow Length=865' Tc=6.0 min CN=90 Runoff=1.12 cfs 0.073 af
Subcatchment 8.13S: Area 8.13	Runoff Area=26,292 sf 66.94% Impervious Runoff Depth=1.42" Flow Length=795' Tc=6.0 min CN=90 Runoff=1.09 cfs 0.071 af

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Page 7

Subcatchment 8.15S: Area 8.15	Runoff Area=94,118 sf 34.15% Impervious Runoff Depth=0.85" Flow Length=1,597' Tc=6.0 min CN=81 Runoff=2.24 cfs 0.153 af
Subcatchment 8.16S: Area 8.16	Runoff Area=20,576 sf 30.13% Impervious Runoff Depth=0.80" Tc=6.0 min CN=80 Runoff=0.45 cfs 0.031 af
Subcatchment 8.17S: Area 8.17	Runoff Area=102,463 sf 39.21% Impervious Runoff Depth=0.85" Flow Length=1,330' Tc=6.0 min CN=81 Runoff=2.43 cfs 0.167 af
Subcatchment 8.1S: Area-8.1	Runoff Area=225,775 sf 0.00% Impervious Runoff Depth=0.33" Flow Length=1,117' Tc=9.1 min CN=68 Runoff=1.08 cfs 0.144 af
Subcatchment 8.2S: Area 8.2	Runoff Area=100,400 sf 9.56% Impervious Runoff Depth=0.46" Flow Length=450' Slope=0.3000 '/' Tc=8.7 min CN=72 Runoff=0.89 cfs 0.089 af
Subcatchment 8.3S: Area 8.3	Runoff Area=49,890 sf 16.92% Impervious Runoff Depth=0.66" Flow Length=415' Slope=0.0300 '/' Tc=6.0 min CN=77 Runoff=0.86 cfs 0.063 af
Subcatchment 8.4S: Area 8.4	Runoff Area=224,571 sf 3.30% Impervious Runoff Depth=0.43" Flow Length=890' Tc=9.1 min CN=71 Runoff=1.73 cfs 0.184 af
Subcatchment 8.5S: Area-8.5	Runoff Area=655,085 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=1,768' Tc=31.2 min CN=70 Runoff=2.56 cfs 0.495 af
Subcatchment 8.6S: Area 8.6	Runoff Area=118,266 sf 28.55% Impervious Runoff Depth=0.75" Flow Length=737' Tc=11.3 min CN=79 Runoff=1.92 cfs 0.170 af
Subcatchment 8.7S: Area 8.7	Runoff Area=174,248 sf 32.50% Impervious Runoff Depth=0.80" Flow Length=910' Tc=8.5 min CN=80 Runoff=3.34 cfs 0.267 af
Subcatchment 8.8S: Area 8.8	Runoff Area=67,318 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=524' Slope=0.0850 '/' Tc=6.0 min CN=71 Runoff=0.61 cfs 0.055 af
Subcatchment 8.9S: Area 8.9	Runoff Area=31,465 sf 72.46% Impervious Runoff Depth=1.49" Flow Length=1,125' Tc=6.0 min CN=91 Runoff=1.37 cfs 0.090 af
Subcatchment 9.10S: Area 9.10	Runoff Area=317,221 sf 8.54% Impervious Runoff Depth=0.50" Flow Length=1,240' Slope=0.1000 '/' Tc=6.0 min UI Adjusted CN=73 Runoff=3.68 cfs 0.303 af
Subcatchment 9.11S: Area 9.11S	Runoff Area=126,900 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=975' Tc=12.6 min CN=71 Runoff=0.86 cfs 0.104 af
Subcatchment 9.12S: Area 9.12S	Runoff Area=29,060 sf 85.68% Impervious Runoff Depth=1.84" Flow Length=925' Tc=6.0 min CN=95 Runoff=1.52 cfs 0.102 af
Subcatchment 9.13S: Area 9.13	Runoff Area=49,485 sf 100.00% Impervious Runoff Depth=2.14" Flow Length=1,695' Tc=6.0 min CN=98 Runoff=2.84 cfs 0.203 af
Subcatchment 9.14S: Area 9.14	Runoff Area=241,600 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=890' Tc=8.3 min CN=70 Runoff=1.65 cfs 0.182 af

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Page 8

Subcatchment 9.1S: Area 9.1	Runoff Area=153,790 sf 2.99% Impervious Runoff Depth=0.33" Flow Length=760' Tc=7.3 min CN=68 Runoff=0.77 cfs 0.098 af
Subcatchment 9.5S: Area 9.5	Runoff Area=52,243 sf 12.06% Impervious Runoff Depth=0.43" Flow Length=412' Slope=0.2000 1/100' Tc=8.7 min CN=71 Runoff=0.41 cfs 0.043 af
Subcatchment 9.6S: Area 9.6	Runoff Area=164,855 sf 10.81% Impervious Runoff Depth=0.58" Flow Length=543' Slope=0.1000 1/100' Tc=6.0 min CN=75 Runoff=2.37 cfs 0.182 af
Subcatchment 9.9S: Area 9.9	Runoff Area=95,744 sf 0.00% Impervious Runoff Depth=0.46" Flow Length=300' Tc=6.0 min CN=72 Runoff=0.99 cfs 0.085 af
Subcatchment 11.10S: Area-11.10	Runoff Area=26,000 sf 65.96% Impervious Runoff Depth=1.42" Flow Length=220' Tc=6.0 min CN=90 Runoff=1.08 cfs 0.070 af
Subcatchment 11.11S: Area-11.11	Runoff Area=59,520 sf 60.26% Impervious Runoff Depth=1.27" Flow Length=497' Tc=6.0 min CN=88 Runoff=2.21 cfs 0.145 af
Subcatchment 11.12S: Area-11.12	Runoff Area=54,672 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=284' Tc=6.0 min CN=70 Runoff=0.43 cfs 0.041 af
Subcatchment 11.13S: Area-11.13	Runoff Area=10,160 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.58 cfs 0.042 af
Subcatchment 11.14S: Area-11.14	Runoff Area=195,163 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=520' Tc=11.6 min CN=71 Runoff=1.36 cfs 0.160 af
Subcatchment 11.15S: Area-11.15	Runoff Area=45,543 sf 0.00% Impervious Runoff Depth=0.54" Flow Length=836' Tc=13.5 min CN=74 Runoff=0.43 cfs 0.047 af
Subcatchment 11.16S: Area-11.16	Runoff Area=28,535 sf 58.70% Impervious Runoff Depth=1.27" Flow Length=690' Tc=6.0 min CN=88 Runoff=1.06 cfs 0.069 af
Subcatchment 11.17S: Area-11.17	Runoff Area=15,901 sf 78.17% Impervious Runoff Depth=1.66" Flow Length=520' Slope=0.0250 1/400' Tc=6.0 min CN=93 Runoff=0.76 cfs 0.050 af
Subcatchment 11.18S: Area-11.18	Runoff Area=496,244 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=1,750' Tc=18.5 min CN=70 Runoff=2.46 cfs 0.375 af
Subcatchment 11.19S: Area-11.19	Runoff Area=365,755 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=2,586' Tc=21.6 min CN=70 Runoff=1.70 cfs 0.276 af
Subcatchment 11.20S: Area-11.20	Runoff Area=28,250 sf 0.00% Impervious Runoff Depth=0.36" Flow Length=497' Tc=6.0 min CN=69 Runoff=0.19 cfs 0.020 af
Subcatchment 11.21S: Area-11.21	Runoff Area=207,244 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=1,251' Tc=8.6 min CN=70 Runoff=1.41 cfs 0.156 af
Subcatchment 11.23S: Area 11.23	Runoff Area=49,500 sf 14.06% Impervious Runoff Depth=0.58" Flow Length=490' Tc=6.0 min CN=75 Runoff=0.71 cfs 0.055 af

08077_Proposed-localprecipdata

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Prepared by The LA group

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Page 9

Subcatchment 11.24S: Area 11.24	Runoff Area=25,034 sf 22.45% Impervious Runoff Depth=0.75" Flow Length=475' Tc=6.0 min CN=79 Runoff=0.51 cfs 0.036 af
Subcatchment 11.25S: Area 11.25	Runoff Area=68,850 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=455' Tc=8.6 min CN=71 Runoff=0.54 cfs 0.056 af
Subcatchment 11.26S: Area-11.26	Runoff Area=38,546 sf 67.49% Impervious Runoff Depth=1.42" Flow Length=490' Tc=6.0 min CN=90 Runoff=1.60 cfs 0.104 af
Subcatchment 11.27S: Area-11.27	Runoff Area=66,220 sf 70.97% Impervious Runoff Depth=1.49" Tc=6.0 min CN=91 Runoff=2.89 cfs 0.189 af
Subcatchment 11.28S: Area-11.28	Runoff Area=6,000 sf 100.00% Impervious Runoff Depth=2.14" Flow Length=20' Slope=0.0200 1/1' Tc=6.0 min CN=98 Runoff=0.34 cfs 0.025 af
Subcatchment 11.29S: Area 11.29	Runoff Area=21,107 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=195' Tc=6.0 min CN=71 Runoff=0.19 cfs 0.017 af
Subcatchment 11.2S: Area-11.2	Runoff Area=1,298,764 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=2,720' Tc=29.6 min CN=70 Runoff=5.24 cfs 0.981 af
Subcatchment 11.32S: Area-11.5	Runoff Area=236,106 sf 0.00% Impervious Runoff Depth=0.36" Flow Length=1,303' Tc=20.6 min CN=69 Runoff=0.96 cfs 0.164 af
Subcatchment 11.33S: Area-11.33	Runoff Area=115,090 sf 0.00% Impervious Runoff Depth=0.46" Flow Length=670' Tc=23.1 min CN=72 Runoff=0.67 cfs 0.102 af
Subcatchment 11.34S: Area-11.34	Runoff Area=56,117 sf 0.00% Impervious Runoff Depth=0.46" Flow Length=575' Tc=14.1 min CN=72 Runoff=0.41 cfs 0.050 af
Subcatchment 11.35S: Area-11.35	Runoff Area=23,266 sf 0.00% Impervious Runoff Depth=0.62" Flow Length=370' Slope=0.1500 1/1' Tc=6.0 min CN=76 Runoff=0.37 cfs 0.027 af
Subcatchment 11.36S: Area-11.36	Runoff Area=69,230 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=590' Tc=7.8 min CN=71 Runoff=0.55 cfs 0.057 af
Subcatchment 11.38S: Area-11.38	Runoff Area=14,250 sf 0.00% Impervious Runoff Depth=0.58" Flow Length=185' Slope=0.2500 1/1' Tc=6.0 min CN=75 Runoff=0.20 cfs 0.016 af
Subcatchment 11.39S: Area-11.39	Runoff Area=21,350 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=435' Tc=6.5 min CN=71 Runoff=0.19 cfs 0.017 af
Subcatchment 11.3S: Area-11.3	Runoff Area=2,817,597 sf 9.13% Impervious Runoff Depth=0.50" Flow Length=5,405' Tc=29.0 min CN=73 Runoff=16.51 cfs 2.688 af
Subcatchment 11.40S: Area-11.40	Runoff Area=43,800 sf 100.00% Impervious Runoff Depth=2.14" Flow Length=2,190' Tc=6.0 min CN=98 Runoff=2.51 cfs 0.179 af
Subcatchment 11.41S: Area-11.41	Runoff Area=77,380 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=355' Tc=7.3 min CN=71 Runoff=0.65 cfs 0.063 af

08077_Proposed-localprecipdata

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 10

Subcatchment 11.4S: Area-11.4	Runoff Area=39,350 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=2.26 cfs 0.161 af
Subcatchment 11.5S: Area-11.5	Runoff Area=243,794 sf 0.00% Impervious Runoff Depth=0.36" Flow Length=950' Tc=9.4 min CN=69 Runoff=1.37 cfs 0.169 af
Subcatchment 11.6S: Area-11.6	Runoff Area=24,550 sf 0.00% Impervious Runoff Depth=0.43" Tc=6.0 min CN=71 Runoff=0.22 cfs 0.020 af
Subcatchment 11.7S: Area-11.7	Runoff Area=66,763 sf 0.00% Impervious Runoff Depth=0.46" Flow Length=810' Tc=6.0 min CN=72 Runoff=0.69 cfs 0.059 af
Subcatchment 11.8S: Area-11.8	Runoff Area=238,239 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=1,367' Tc=13.9 min CN=71 Runoff=1.53 cfs 0.195 af
Subcatchment 11.9S: Area-11.9	Runoff Area=87,870 sf 0.00% Impervious Runoff Depth=0.46" Flow Length=805' Tc=8.2 min CN=72 Runoff=0.79 cfs 0.078 af
Subcatchment 12.1S: Area-12.1	Runoff Area=555,875 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=1,995' Tc=37.6 min CN=70 Runoff=2.00 cfs 0.420 af
Subcatchment 12.2S: Area-12.2	Runoff Area=249,685 sf 14.15% Impervious Runoff Depth=0.62" Flow Length=480' Tc=9.5 min CN=76 Runoff=3.32 cfs 0.295 af
Subcatchment 12.3S: Area-12.3	Runoff Area=18,250 sf 100.00% Impervious Runoff Depth=2.14" Flow Length=380' Tc=6.0 min CN=98 Runoff=1.05 cfs 0.075 af
Reach 11.10R: Mountain stream	Avg. Flow Depth=0.14' Max Vel=4.22 fps Inflow=15.05 cfs 4.339 af n=0.040 L=393.0' S=0.1730 1/' Capacity=3,320.07 cfs Outflow=15.00 cfs 4.339 af
Reach 11.3aR: Bouldery stream	Avg. Flow Depth=0.10' Max Vel=4.04 fps Inflow=5.92 cfs 1.175 af n=0.050 L=142.0' S=0.4014 1/' Capacity=2,234.38 cfs Outflow=5.91 cfs 1.175 af
Reach 11.4aR: DP11.3	Avg. Flow Depth=0.22' Max Vel=6.09 fps Inflow=9.96 cfs 2.110 af n=0.050 L=220.0' S=0.3636 1/' Capacity=858.32 cfs Outflow=9.93 cfs 2.110 af
Reach 11.4bR: DP11.4	Avg. Flow Depth=0.12' Max Vel=3.91 fps Inflow=0.60 cfs 1.027 af n=0.040 L=145.0' S=0.2621 1/' Capacity=231.18 cfs Outflow=0.58 cfs 1.027 af
Reach 11.4R: DP-11.2	Avg. Flow Depth=0.27' Max Vel=4.46 fps Inflow=9.76 cfs 2.053 af n=0.050 L=267.0' S=0.1498 1/' Capacity=575.36 cfs Outflow=9.73 cfs 2.053 af
Reach 11.5aR: DP11.5	Avg. Flow Depth=0.10' Max Vel=3.38 fps Inflow=0.45 cfs 0.100 af n=0.040 L=620.0' S=0.2323 1/' Capacity=217.63 cfs Outflow=0.43 cfs 0.100 af
Reach 11.5R: Mountain stream	Avg. Flow Depth=0.16' Max Vel=4.19 fps Inflow=10.35 cfs 3.137 af n=0.050 L=455.0' S=0.2242 1/' Capacity=2,943.05 cfs Outflow=10.31 cfs 3.137 af
Reach 11.6aR: Mountain stream	Avg. Flow Depth=0.22' Max Vel=6.65 fps Inflow=15.23 cfs 4.339 af n=0.050 L=245.0' S=0.4000 1/' Capacity=3,987.80 cfs Outflow=15.17 cfs 4.339 af

Reach 11.6R: Mountain stream	Avg. Flow Depth=0.20' Max Vel=5.00 fps Inflow=10.60 cfs 3.237 af n=0.050 L=475.0' S=0.2505 1/' Capacity=3,155.95 cfs Outflow=10.56 cfs 3.237 af
Reach 11.8R: Mountain stream	Avg. Flow Depth=0.18' Max Vel=5.42 fps Inflow=15.17 cfs 4.339 af n=0.050 L=360.0' S=0.3139 1/' Capacity=13,400.37 cfs Outflow=15.10 cfs 4.339 af
Reach DP-1: Design Point-1	Avg. Flow Depth=0.25' Max Vel=5.53 fps Inflow=10.16 cfs 2.987 af n=0.040 L=10.0' S=0.1500 1/' Capacity=670.80 cfs Outflow=10.16 cfs 2.987 af
Reach DP-11: Design Point-11	Inflow=28.62 cfs 7.105 af Outflow=28.62 cfs 7.105 af
Reach DP-12: Design Point-12	Avg. Flow Depth=0.15' Max Vel=4.44 fps Inflow=2.19 cfs 0.854 af n=0.040 L=10.0' S=0.2000 1/' Capacity=128.70 cfs Outflow=2.19 cfs 0.854 af
Reach DP-1a: Design Point-1a	Avg. Flow Depth=0.08' Max Vel=2.05 fps Inflow=0.55 cfs 0.802 af n=0.040 L=10.0' S=0.1000 1/' Capacity=97.10 cfs Outflow=0.55 cfs 0.802 af
Reach DP-2: Design Point-2	Avg. Flow Depth=0.18' Max Vel=5.01 fps Inflow=4.47 cfs 1.747 af n=0.040 L=10.0' S=0.2000 1/' Capacity=233.42 cfs Outflow=4.47 cfs 1.747 af
Reach DP-2a: Design Point-2a	Inflow=0.44 cfs 0.045 af Outflow=0.44 cfs 0.045 af
Reach DP-2b: Design Point-2b	Inflow=1.60 cfs 0.167 af Outflow=1.60 cfs 0.167 af
Reach DP-3: Design Point-3	Avg. Flow Depth=0.11' Max Vel=4.84 fps Inflow=0.82 cfs 0.079 af n=0.040 L=150.0' S=0.4000 1/' Capacity=79.12 cfs Outflow=0.76 cfs 0.079 af
Reach DP-4: Design Point-4	Avg. Flow Depth=0.10' Max Vel=3.90 fps Inflow=2.32 cfs 1.641 af n=0.050 L=10.0' S=0.4000 1/' Capacity=768.66 cfs Outflow=2.32 cfs 1.641 af
Reach DP-5: Design Point-5	Avg. Flow Depth=0.35' Max Vel=5.88 fps Inflow=7.23 cfs 0.921 af n=0.035 L=10.0' S=0.1000 1/' Capacity=273.11 cfs Outflow=7.22 cfs 0.921 af
Reach DP-6: Design Point 6	Inflow=0.23 cfs 0.112 af Outflow=0.23 cfs 0.112 af
Reach DP-7: Design Point-7	Inflow=0.28 cfs 0.051 af Outflow=0.28 cfs 0.051 af
Reach DP-8: Design Point-8	Avg. Flow Depth=0.25' Max Vel=4.18 fps Inflow=3.56 cfs 2.498 af n=0.040 L=10.0' S=0.1000 1/' Capacity=277.01 cfs Outflow=3.56 cfs 2.498 af
Reach DP-9: Design Point-9	Avg. Flow Depth=0.35' Max Vel=4.91 fps Inflow=4.07 cfs 1.589 af n=0.040 L=100.0' S=0.1000 1/' Capacity=152.56 cfs Outflow=3.94 cfs 1.590 af
Reach R1.1: Mountain Stream	Avg. Flow Depth=0.17' Max Vel=4.11 fps Inflow=8.01 cfs 1.214 af n=0.040 L=805.0' S=0.1342 1/' Capacity=1,947.63 cfs Outflow=7.77 cfs 1.214 af

Reach R1.12: WETLAND	Avg. Flow Depth=0.01' Max Vel=1.65 fps Inflow=0.36 cfs 0.769 af n=0.035 L=200.0' S=0.6000 1/' Capacity=206.27 cfs Outflow=0.36 cfs 0.769 af
Reach R1.2: Mountain Stream	Avg. Flow Depth=0.27' Max Vel=5.57 fps Inflow=8.35 cfs 1.335 af n=0.040 L=616.0' S=0.1461 1/' Capacity=636.66 cfs Outflow=8.24 cfs 1.335 af
Reach R1.8: WETLAND	Avg. Flow Depth=0.05' Max Vel=1.54 fps Inflow=1.54 cfs 0.191 af n=0.070 L=120.0' S=0.3083 1/' Capacity=73.93 cfs Outflow=1.41 cfs 0.191 af
Reach R11.1: DP11.6	Avg. Flow Depth=0.20' Max Vel=2.53 fps Inflow=1.52 cfs 0.259 af n=0.070 L=310.0' S=0.1742 1/' Capacity=102.63 cfs Outflow=1.46 cfs 0.259 af
Reach R11.12: Mountain stream	Avg. Flow Depth=0.15' Max Vel=5.57 fps Inflow=1.41 cfs 0.181 af n=0.040 L=200.0' S=0.3350 1/' Capacity=678.27 cfs Outflow=1.39 cfs 0.181 af
Reach R11.13: Mountain stream	Avg. Flow Depth=0.12' Max Vel=3.50 fps Inflow=5.24 cfs 0.981 af n=0.050 L=220.0' S=0.2045 1/' Capacity=4,439.64 cfs Outflow=5.21 cfs 0.981 af
Reach R11.14: Mountain stream	Avg. Flow Depth=0.03' Max Vel=1.76 fps Inflow=0.19 cfs 0.020 af n=0.040 L=140.0' S=0.2071 1/' Capacity=989.43 cfs Outflow=0.17 cfs 0.020 af
Reach R11.16: SWALE	Avg. Flow Depth=0.25' Max Vel=4.35 fps Inflow=2.48 cfs 0.393 af n=0.040 L=450.0' S=0.1111 1/' Capacity=160.81 cfs Outflow=2.44 cfs 0.393 af
Reach R11.1A: DP11.7	Avg. Flow Depth=0.27' Max Vel=5.39 fps Inflow=4.73 cfs 1.103 af n=0.040 L=950.0' S=0.1884 1/' Capacity=186.80 cfs Outflow=4.68 cfs 1.103 af
Reach R11.1B: Mountain stream	Avg. Flow Depth=0.13' Max Vel=4.12 fps Inflow=1.37 cfs 0.174 af n=0.040 L=200.0' S=0.2500 1/' Capacity=215.17 cfs Outflow=1.35 cfs 0.174 af
Reach R11.25: SWALE	Avg. Flow Depth=0.33' Max Vel=3.44 fps Inflow=3.00 cfs 0.488 af n=0.040 L=350.0' S=0.0543 1/' Capacity=110.44 cfs Outflow=2.97 cfs 0.488 af
Reach R11.27: Overland	Avg. Flow Depth=0.02' Max Vel=1.47 fps Inflow=3.32 cfs 0.534 af n=0.035 L=640.0' S=0.2156 1/' Capacity=620.34 cfs Outflow=2.97 cfs 0.534 af
Reach R11.30: SWALE	Avg. Flow Depth=0.06' Max Vel=0.54 fps Inflow=0.07 cfs 0.108 af n=0.040 L=325.0' S=0.0092 1/' Capacity=24.23 cfs Outflow=0.07 cfs 0.108 af
Reach R11.31: SWALE	Avg. Flow Depth=0.03' Max Vel=0.67 fps Inflow=0.04 cfs 0.055 af n=0.040 L=140.0' S=0.0393 1/' Capacity=49.99 cfs Outflow=0.04 cfs 0.055 af
Reach R11.33: Bouldery stream	Avg. Flow Depth=0.12' Max Vel=2.85 fps Inflow=2.67 cfs 0.602 af n=0.050 L=190.0' S=0.1579 1/' Capacity=454.15 cfs Outflow=2.64 cfs 0.602 af
Reach R11.37: SWALE	Avg. Flow Depth=0.26' Max Vel=4.20 fps Inflow=2.48 cfs 0.410 af n=0.040 L=600.0' S=0.1000 1/' Capacity=96.77 cfs Outflow=2.47 cfs 0.410 af
Reach R11.38: Wetland	Avg. Flow Depth=0.02' Max Vel=0.14 fps Inflow=0.07 cfs 0.108 af n=0.100 L=306.0' S=0.0163 1/' Capacity=14.90 cfs Outflow=0.07 cfs 0.108 af

Reach R11.39: SWALE	Avg. Flow Depth=0.05' Max Vel=1.36 fps Inflow=0.13 cfs 0.189 af n=0.040 L=310.0' S=0.0806 1/' Capacity=49.35 cfs Outflow=0.13 cfs 0.189 af
Reach R11.40: SWALE	Avg. Flow Depth=0.17' Max Vel=5.77 fps Inflow=2.26 cfs 0.161 af n=0.040 L=310.0' S=0.3226 1/' Capacity=143.25 cfs Outflow=2.13 cfs 0.161 af
Reach R2.7: SWALE	Avg. Flow Depth=0.20' Max Vel=1.93 fps Inflow=1.22 cfs 0.196 af n=0.040 L=705.0' S=0.0298 1/' Capacity=81.81 cfs Outflow=0.92 cfs 0.196 af
Reach R3.1: SWALE	Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0.000 af n=0.040 L=420.0' S=0.2381 1/' Capacity=123.06 cfs Outflow=0.00 cfs 0.000 af
Reach R4.2: SWALE	Avg. Flow Depth=0.16' Max Vel=4.47 fps Inflow=4.63 cfs 0.706 af n=0.040 L=350.0' S=0.1771 1/' Capacity=219.76 cfs Outflow=4.53 cfs 0.706 af
Reach R4.5: swale	Avg. Flow Depth=0.20' Max Vel=3.71 fps Inflow=1.74 cfs 1.549 af n=0.040 L=560.0' S=0.1071 1/' Capacity=100.17 cfs Outflow=1.56 cfs 1.549 af
Reach R4.7: swale	Avg. Flow Depth=0.15' Max Vel=6.62 fps Inflow=2.35 cfs 1.640 af n=0.040 L=60.0' S=0.4833 1/' Capacity=329.55 cfs Outflow=2.31 cfs 1.640 af
Reach R5.2: SWALE	Avg. Flow Depth=0.25' Max Vel=4.49 fps Inflow=2.66 cfs 0.289 af n=0.040 L=640.0' S=0.1187 1/' Capacity=105.45 cfs Outflow=2.55 cfs 0.289 af
Reach R5.3: SWALE	Avg. Flow Depth=0.40' Max Vel=3.18 fps Inflow=3.61 cfs 0.469 af n=0.040 L=187.0' S=0.0374 1/' Capacity=151.95 cfs Outflow=3.47 cfs 0.469 af
Reach R8.16: SWALE	Avg. Flow Depth=0.21' Max Vel=5.64 fps Inflow=5.41 cfs 0.649 af n=0.040 L=315.0' S=0.2159 1/' Capacity=178.88 cfs Outflow=5.18 cfs 0.649 af
Reach R8.17: SWALE	Avg. Flow Depth=0.21' Max Vel=5.59 fps Inflow=5.19 cfs 0.712 af n=0.040 L=280.0' S=0.2107 1/' Capacity=176.73 cfs Outflow=5.02 cfs 0.712 af
Reach R8.18: Mountain stream	Avg. Flow Depth=0.28' Max Vel=2.92 fps Inflow=2.60 cfs 0.548 af n=0.080 L=870.0' S=0.1736 1/' Capacity=109.52 cfs Outflow=2.53 cfs 0.548 af
Reach R8.2: SWALE	Avg. Flow Depth=0.17' Max Vel=2.82 fps Inflow=1.10 cfs 0.170 af n=0.040 L=407.0' S=0.0713 1/' Capacity=46.39 cfs Outflow=1.05 cfs 0.170 af
Reach R8.21: SWALE	Avg. Flow Depth=0.23' Max Vel=6.74 fps Inflow=7.06 cfs 0.886 af n=0.040 L=520.0' S=0.2788 1/' Capacity=203.30 cfs Outflow=6.74 cfs 0.886 af
Reach R8.4: SWALE	Avg. Flow Depth=0.32' Max Vel=4.43 fps Inflow=3.35 cfs 0.437 af n=0.040 L=525.0' S=0.0876 1/' Capacity=51.44 cfs Outflow=3.19 cfs 0.437 af
Reach R8.6: SWALE	Avg. Flow Depth=0.31' Max Vel=5.02 fps Inflow=3.64 cfs 0.535 af n=0.040 L=345.0' S=0.1159 1/' Capacity=59.17 cfs Outflow=3.53 cfs 0.535 af
Reach R9.10: Swale	Avg. Flow Depth=0.09' Max Vel=1.97 fps Inflow=0.37 cfs 0.906 af n=0.040 L=170.0' S=0.0824 1/' Capacity=136.03 cfs Outflow=0.37 cfs 0.906 af

Reach R9.2: Swale	Avg. Flow Depth=0.17' Max Vel=3.27 fps Inflow=1.65 cfs 0.182 af n=0.040 L=1,250.0' S=0.1016 1/' Capacity=80.39 cfs Outflow=1.30 cfs 0.182 af
Reach R9.3: Swale	Avg. Flow Depth=0.28' Max Vel=4.52 fps Inflow=3.74 cfs 0.542 af n=0.040 L=1,000.0' S=0.1120 1/' Capacity=158.64 cfs Outflow=3.10 cfs 0.542 af
Reach R9.4: Swale	Avg. Flow Depth=0.35' Max Vel=4.80 fps Inflow=4.85 cfs 0.480 af n=0.040 L=540.0' S=0.0981 1/' Capacity=148.51 cfs Outflow=4.47 cfs 0.480 af
Pond 6.2P: BIORETENTION	Peak Elev=1,686.35' Storage=1,317 cf Inflow=0.40 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond 6.3P: BIORETENTION	Peak Elev=1,686.35' Storage=1,317 cf Inflow=0.40 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond 11.3R: DP11.1	Peak Elev=2,411.59' Storage=489 cf Inflow=5.93 cfs 1.182 af 72.0" Round Culvert x 2.00 n=0.025 L=120.0' S=0.1333 1/' Outflow=5.92 cfs 1.175 af
Pond 11.7R: Culvert	Peak Elev=1,891.37' Inflow=15.17 cfs 4.339 af Outflow=15.17 cfs 4.339 af
Pond 11.9R: Culvert	Peak Elev=1,774.03' Storage=848 cf Inflow=15.10 cfs 4.339 af Outflow=15.05 cfs 4.339 af
Pond P1.1: Pond 1.1	Peak Elev=2,160.96' Storage=43,776 cf Inflow=5.65 cfs 0.770 af Outflow=0.36 cfs 0.769 af
Pond P1.2: BIORETENTION	Peak Elev=2,227.29' Storage=2,623 cf Inflow=0.51 cfs 0.034 af Outflow=0.03 cfs 0.034 af
Pond P1.3: Pond 1.3	Peak Elev=2,165.76' Storage=68,568 cf Inflow=6.47 cfs 1.321 af Outflow=0.65 cfs 1.318 af
Pond P1.4: BIORETENTION	Peak Elev=2,214.31' Storage=12,509 cf Inflow=2.39 cfs 0.173 af Outflow=0.11 cfs 0.173 af
Pond P11.1: P-1	Peak Elev=2,300.15' Storage=45,937 cf Inflow=6.24 cfs 1.001 af Outflow=0.41 cfs 0.999 af
Pond P11.10: DRY SWALE	Peak Elev=2,193.01' Storage=1,398 cf Inflow=0.71 cfs 0.055 af Outflow=0.04 cfs 0.055 af
Pond P11.11: BIORETENTION	Peak Elev=2,182.04' Storage=3,944 cf Inflow=0.20 cfs 0.072 af Outflow=0.04 cfs 0.072 af
Pond P11.12: BIORETENTION	Peak Elev=2,411.62' Storage=6,625 cf Inflow=2.21 cfs 0.145 af Outflow=0.27 cfs 0.145 af
Pond P11.14: BIORETENTION	Peak Elev=2,411.33' Storage=5,365 cf Inflow=1.08 cfs 0.070 af Outflow=0.05 cfs 0.070 af

Pond P11.2: BIORETENTION	Peak Elev=2,372.32' Storage=13,984 cf Inflow=2.56 cfs 0.202 af Outflow=0.13 cfs 0.202 af
Pond P11.4: BIORETENTION	Peak Elev=2,458.32' Storage=14,627 cf Inflow=2.89 cfs 0.189 af Outflow=0.13 cfs 0.189 af
Pond P11.6: DRY SWALE	Peak Elev=2,482.77' Storage=691 cf Inflow=0.34 cfs 0.025 af Outflow=0.01 cfs 0.025 af
Pond P11.7: BIORETENTION	Peak Elev=2,248.28' Storage=5,834 cf Inflow=1.06 cfs 0.069 af Outflow=0.05 cfs 0.069 af
Pond P11.8: BIORETENTION	Peak Elev=2,260.30' Storage=4,010 cf Inflow=0.76 cfs 0.050 af Outflow=0.04 cfs 0.050 af
Pond P11.9: BIORETENTION	Peak Elev=2,219.26' Storage=2,484 cf Inflow=0.51 cfs 0.036 af Outflow=0.03 cfs 0.036 af
Pond P12.1: Pond 12.1	Peak Elev=2,297.53' Storage=23,482 cf Inflow=4.13 cfs 0.437 af Outflow=0.22 cfs 0.434 af
Pond P2.1: Pond 2.1	Peak Elev=2,184.38' Storage=51,854 cf Inflow=7.83 cfs 0.950 af Outflow=0.46 cfs 0.946 af
Pond P4.1: P-1	Peak Elev=2,187.62' Storage=79,289 cf Inflow=8.43 cfs 1.414 af Primary=0.72 cfs 1.412 af Secondary=0.00 cfs 0.000 af Outflow=0.72 cfs 1.412 af
Pond P6.1: BIORETENTION	Peak Elev=1,686.35' Storage=1,317 cf Inflow=0.40 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P8.1: DRY SWALE	Peak Elev=2,309.14' Storage=1,776 cf Inflow=1.92 cfs 0.170 af Outflow=1.10 cfs 0.170 af
Pond P8.2: P-3	Peak Elev=1,681.07' Storage=45,471 cf Inflow=5.95 cfs 0.801 af Outflow=0.31 cfs 0.800 af
Pond P8.3: DRY SWALE	Peak Elev=1,756.01' Storage=1,352 cf Inflow=0.86 cfs 0.063 af Outflow=0.06 cfs 0.063 af
Pond P8.4: P-3	Peak Elev=1,667.15' Storage=55,327 cf Inflow=7.53 cfs 0.992 af Primary=0.44 cfs 0.992 af Secondary=0.00 cfs 0.000 af Outflow=0.44 cfs 0.992 af
Pond P8.5: I-2	Peak Elev=1,676.21' Storage=3,881 cf Inflow=2.43 cfs 0.167 af Discarded=0.10 cfs 0.167 af Primary=0.00 cfs 0.000 af Outflow=0.10 cfs 0.167 af
Pond P9.2: Pond 9.2	Peak Elev=1,671.46' Storage=48,235 cf Inflow=7.69 cfs 0.906 af Outflow=0.37 cfs 0.906 af
Pond R1.10: PIPE	Peak Elev=2,260.82' Inflow=4.86 cfs 0.925 af 36.0" Round Culvert n=0.020 L=1,125.0' S=0.0667 '/' Outflow=4.86 cfs 0.925 af

Pond R1.11: Pipe	Peak Elev=2,190.78' Inflow=5.18 cfs 1.009 af 48.0" Round Culvert n=0.020 L=230.0' S=0.0435 '/' Outflow=5.18 cfs 1.009 af
Pond R1.3: Culvert	Peak Elev=2,400.63' Inflow=2.58 cfs 0.377 af 36.0" Round Culvert n=0.013 L=1,255.0' S=0.0653 '/' Outflow=2.58 cfs 0.377 af
Pond R1.4: pipe	Peak Elev=2,300.59' Inflow=2.58 cfs 0.377 af 36.0" Round Culvert n=0.020 L=950.0' S=0.0926 '/' Outflow=2.58 cfs 0.377 af
Pond R1.5: Pipe	Peak Elev=2,195.71' Inflow=3.69 cfs 0.524 af 36.0" Round Culvert n=0.020 L=120.0' S=0.1250 '/' Outflow=3.69 cfs 0.524 af
Pond R1.6: pipe	Peak Elev=2,207.82' Inflow=2.15 cfs 0.147 af 24.0" Round Culvert n=0.020 L=260.0' S=0.0050 '/' Outflow=2.15 cfs 0.147 af
Pond R1.7: Culvert	Peak Elev=2,206.21' Inflow=1.54 cfs 0.191 af 60.0" x 36.0" Box Culvert n=0.013 L=50.0' S=0.0200 '/' Outflow=1.54 cfs 0.191 af
Pond R1.9: PIPE	Peak Elev=2,295.73' Inflow=3.82 cfs 0.655 af 36.0" Round Culvert n=0.020 L=350.0' S=0.0943 '/' Outflow=3.82 cfs 0.655 af
Pond R11.11: CULVERT	Peak Elev=2,478.46' Inflow=1.41 cfs 0.156 af 30.0" Round Culvert n=0.020 L=35.0' S=0.2857 '/' Outflow=1.41 cfs 0.156 af
Pond R11.15: CB	Peak Elev=2,452.68' Inflow=2.48 cfs 0.393 af 36.0" Round Culvert n=0.020 L=110.0' S=0.0091 '/' Outflow=2.48 cfs 0.393 af
Pond R11.17: CB	Peak Elev=2,435.52' Inflow=2.05 cfs 0.351 af 36.0" Round Culvert n=0.020 L=290.0' S=0.0862 '/' Outflow=2.05 cfs 0.351 af
Pond R11.19: CB	Peak Elev=2,420.54' Inflow=2.18 cfs 0.146 af 36.0" Round Culvert n=0.020 L=290.0' S=0.0862 '/' Outflow=2.18 cfs 0.146 af
Pond R11.20: CULVERT	Peak Elev=2,459.48' Inflow=1.53 cfs 0.195 af 30.0" Round Culvert n=0.020 L=900.0' S=0.0722 '/' Outflow=1.53 cfs 0.195 af
Pond R11.21: CULVERT	Peak Elev=2,394.65' Inflow=3.06 cfs 0.556 af 36.0" Round Culvert n=0.020 L=900.0' S=0.0733 '/' Outflow=3.06 cfs 0.556 af
Pond R11.22: CB	Peak Elev=2,460.31' Inflow=0.58 cfs 0.042 af 36.0" Round Culvert n=0.020 L=770.0' S=0.0130 '/' Outflow=0.58 cfs 0.042 af
Pond R11.24: CB	Peak Elev=2,486.42' Inflow=1.05 cfs 0.181 af 30.0" Round Culvert n=0.020 L=695.0' S=0.0719 '/' Outflow=1.05 cfs 0.181 af
Pond R11.26: BOX CULVERT	Peak Elev=2,310.38' Inflow=3.32 cfs 0.534 af 60.0" x 36.0" Box Culvert n=0.020 L=50.0' S=0.0200 '/' Outflow=3.32 cfs 0.534 af
Pond R11.32: CULVERT	Peak Elev=2,434.66' Inflow=2.54 cfs 0.413 af 36.0" Round Culvert n=0.020 L=110.0' S=0.0818 '/' Outflow=2.54 cfs 0.413 af

Pond R12.1: CB	Peak Elev=2,309.78' Inflow=1.05 cfs 0.075 af 24.0" Round Culvert n=0.020 L=630.0' S=0.0100 '/' Outflow=1.05 cfs 0.075 af
Pond R2.1: PIPE	Peak Elev=2,288.40' Inflow=1.23 cfs 0.202 af 36.0" Round Culvert n=0.020 L=1,185.0' S=0.0616 '/' Outflow=1.23 cfs 0.202 af
Pond R2.2: PIPE	Peak Elev=2,213.75' Inflow=4.04 cfs 0.464 af 36.0" Round Culvert n=0.020 L=795.0' S=0.0289 '/' Outflow=4.04 cfs 0.464 af
Pond R2.3: catch basin	Peak Elev=2,264.55' Inflow=1.77 cfs 0.260 af Outflow=1.77 cfs 0.260 af
Pond R2.5: Road culvert	Peak Elev=2,229.39' Inflow=1.03 cfs 0.160 af 36.0" Round Culvert n=0.020 L=75.0' S=0.0400 '/' Outflow=1.03 cfs 0.160 af
Pond R2.6: Road Culvert	Peak Elev=2,216.21' Inflow=0.20 cfs 0.036 af 18.0" Round Culvert n=0.020 L=30.0' S=0.0333 '/' Outflow=0.20 cfs 0.036 af
Pond R2.8: cb	Peak Elev=2,187.50' Inflow=1.88 cfs 0.433 af 36.0" Round Culvert n=0.020 L=450.0' S=0.0600 '/' Outflow=1.88 cfs 0.433 af
Pond R4.1: catch basin	Peak Elev=2,288.27' Inflow=4.63 cfs 0.706 af Outflow=4.63 cfs 0.706 af
Pond R4.3: culvert	Peak Elev=2,208.90' Inflow=5.08 cfs 0.820 af Outflow=5.08 cfs 0.820 af
Pond R4.4: CULVERT	Peak Elev=2,181.13' Inflow=0.72 cfs 1.412 af 36.0" Round Culvert n=0.020 L=580.0' S=0.1962 '/' Outflow=0.72 cfs 1.412 af
Pond R4.6: CULVERT	Peak Elev=2,004.60' Inflow=2.35 cfs 1.640 af 36.0" Round Culvert n=0.020 L=50.0' S=0.0200 '/' Outflow=2.35 cfs 1.640 af
Pond R4.8: CULVERT	Peak Elev=2,092.56' Inflow=1.60 cfs 0.137 af 24.0" Round Culvert n=0.020 L=150.0' S=0.1667 '/' Outflow=1.60 cfs 0.137 af
Pond R5.1: CULVERT	Peak Elev=1,904.66' Inflow=2.66 cfs 0.289 af 33.0" Round Culvert n=0.020 L=810.0' S=0.1000 '/' Outflow=2.66 cfs 0.289 af
Pond R8.1: CULVERT	Peak Elev=2,308.46' Inflow=1.10 cfs 0.170 af 24.0" Round Culvert n=0.020 L=275.0' S=0.0145 '/' Outflow=1.10 cfs 0.170 af
Pond R8.10: CB	Peak Elev=1,977.01' Inflow=8.26 cfs 1.102 af 45.0" Round Culvert n=0.020 L=765.0' S=0.1007 '/' Outflow=8.26 cfs 1.102 af
Pond R8.12: CULVERT	Peak Elev=1,902.55' Inflow=1.76 cfs 0.235 af 30.0" Round Culvert n=0.020 L=40.0' S=0.0750 '/' Outflow=1.76 cfs 0.235 af
Pond R8.13: CB	Peak Elev=1,897.09' Inflow=9.89 cfs 1.337 af 48.0" Round Culvert n=0.020 L=835.0' S=0.0862 '/' Outflow=9.89 cfs 1.337 af

08077_Proposed-localprecipdata

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Prepared by The LA group

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Page 18

Pond R8.15: CB Peak Elev=1,821.92' Inflow=12.48 cfs 1.536 af
Primary=7.06 cfs 0.886 af Secondary=5.41 cfs 0.649 af Outflow=12.48 cfs 1.536 af

Pond R8.20: PIPE Peak Elev=1,816.25' Inflow=7.06 cfs 0.886 af
42.0" Round Culvert n=0.020 L=220.0' S=0.0045 '/ Outflow=7.06 cfs 0.886 af

Pond R8.22: New Culvert Peak Elev=1,663.56' Inflow=3.56 cfs 2.498 af
Outflow=3.56 cfs 2.498 af

Pond R8.3: CULVERT Peak Elev=2,272.72' Inflow=3.35 cfs 0.437 af
Outflow=3.35 cfs 0.437 af

Pond R8.5: CULVERT Peak Elev=2,222.76' Inflow=3.64 cfs 0.535 af
Outflow=3.64 cfs 0.535 af

Pond R8.7: CULVERT Peak Elev=2,178.88' Inflow=5.35 cfs 0.867 af
42.0" Round Culvert n=0.020 L=200.0' S=0.0750 '/ Outflow=5.35 cfs 0.867 af

Pond R8.8: CB Peak Elev=2,160.89' Inflow=6.15 cfs 0.957 af
42.0" Round Culvert n=0.020 L=880.0' S=0.0943 '/ Outflow=6.15 cfs 0.957 af

Pond R8.9: CB Peak Elev=2,074.97' Inflow=7.24 cfs 1.030 af
42.0" Round Culvert n=0.020 L=900.0' S=0.1056 '/ Outflow=7.24 cfs 1.030 af

Pond R9.1: pipes Peak Elev=1,816.59' Inflow=2.05 cfs 0.278 af
Outflow=2.05 cfs 0.278 af

Pond R9.11: Culvert Peak Elev=1,658.67' Inflow=3.33 cfs 1.449 af
36.0" Round Culvert n=0.020 L=50.0' S=0.0400 '/ Outflow=3.33 cfs 1.449 af

Pond R9.2A: Culvert Peak Elev=1,772.66' Inflow=3.74 cfs 0.542 af
48.0" Round Culvert n=0.020 L=40.0' S=0.0500 '/ Outflow=3.74 cfs 0.542 af

Pond R9.5: Culvert Peak Elev=1,714.51' Inflow=2.43 cfs 0.282 af
54.0" Round Culvert n=0.020 L=60.0' S=0.0667 '/ Outflow=2.43 cfs 0.282 af

Pond R9.6: Culvert Peak Elev=1,684.29' Inflow=0.42 cfs 0.059 af
18.0" Round Culvert n=0.020 L=100.0' S=0.0200 '/ Outflow=0.42 cfs 0.059 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.1~Link 1.1L.hce Inflow=0.03 cfs 0.049 af
Area= 0.275 ac 100.00% Imperv. Primary=0.03 cfs 0.049 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.2~Link 1.2L.hce Inflow=0.03 cfs 0.047 af
Area= 0.264 ac 100.00% Imperv. Primary=0.03 cfs 0.047 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.3~Link 1.3L.hce Inflow=0.02 cfs 0.027 af
Area= 0.149 ac 100.00% Imperv. Primary=0.02 cfs 0.027 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.4~Link 1.4L.hce Inflow=0.02 cfs 0.029 af
Area= 0.161 ac 100.00% Imperv. Primary=0.02 cfs 0.029 af

08077_Proposed-localprecipdata

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Prepared by The LA group

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Page 19

ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.5~Link 1.5L.hce	Inflow=0.06 cfs	0.088 af	Area= 0.494 ac	100.00% Imperv.	Primary=0.06 cfs	0.088 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.6~Link 1.6L.hce	Inflow=0.05 cfs	0.068 af	Area= 0.379 ac	100.00% Imperv.	Primary=0.05 cfs	0.068 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.9~Link 1.9L.hce	Inflow=0.06 cfs	0.094 af	Area= 0.528 ac	100.00% Imperv.	Primary=0.06 cfs	0.094 af
_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.10~Link 2.10L.hce	Inflow=0.07 cfs	0.100 af	Area= 0.562 ac	100.00% Imperv.	Primary=0.07 cfs	0.100 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.1~Link 2.1L.hce	Inflow=0.01 cfs	0.020 af	Area= 0.115 ac	100.00% Imperv.	Primary=0.01 cfs	0.020 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.3~Link 2.3L.hce	Inflow=0.03 cfs	0.043 af	Area= 0.241 ac	100.00% Imperv.	Primary=0.03 cfs	0.043 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.6~Link 2.6L.hce	Inflow=0.05 cfs	0.072 af	Area= 0.402 ac	100.00% Imperv.	Primary=0.05 cfs	0.072 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.7~Link 2.7L.hce	Inflow=0.05 cfs	0.072 af	Area= 0.402 ac	100.00% Imperv.	Primary=0.05 cfs	0.072 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.8~Link 2.8L.hce	Inflow=0.01 cfs	0.016 af	Area= 0.092 ac	100.00% Imperv.	Primary=0.01 cfs	0.016 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.9~Link 2.9L.hce	Inflow=0.08 cfs	0.115 af	Area= 0.643 ac	100.00% Imperv.	Primary=0.08 cfs	0.115 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 4.1~Link 4.1L.hce	Inflow=0.07 cfs	0.104 af	Area= 0.585 ac	100.00% Imperv.	Primary=0.07 cfs	0.104 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 4.3~Link 4.3L.hce	Inflow=0.17 cfs	0.246 af	Area= 1.377 ac	100.00% Imperv.	Primary=0.17 cfs	0.246 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 4.4~Link 4.4L.hce	Inflow=0.03 cfs	0.045 af	Area= 0.253 ac	100.00% Imperv.	Primary=0.03 cfs	0.045 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 5.2~Link 5.2L.hce	Inflow=0.04 cfs	0.059 af	Area= 0.333 ac	100.00% Imperv.	Primary=0.04 cfs	0.059 af
_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.10~Link 8.10L.hce	Inflow=0.08 cfs	0.115 af	Area= 0.643 ac	100.00% Imperv.	Primary=0.08 cfs	0.115 af
_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.11~Link 8.11L.hce	Inflow=0.01 cfs	0.014 af	Area= 0.080 ac	100.00% Imperv.	Primary=0.01 cfs	0.014 af
_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.15~Link 8.15L.hce	Inflow=0.01 cfs	0.014 af	Area= 0.080 ac	100.00% Imperv.	Primary=0.01 cfs	0.014 af

08077_Proposed-localprecipdata

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 20

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.1~Link 8.1L.hce Inflow=0.01 cfs 0.014 af
Area= 0.080 ac 100.00% Imperv. Primary=0.01 cfs 0.014 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.4~Link 8.4L.hce Inflow=0.04 cfs 0.051 af
Area= 0.287 ac 100.00% Imperv. Primary=0.04 cfs 0.051 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.5~Link 8.5L.hce Inflow=0.04 cfs 0.053 af
Area= 0.298 ac 100.00% Imperv. Primary=0.04 cfs 0.053 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.8~Link 8.8L.hce Inflow=0.03 cfs 0.043 af
Area= 0.241 ac 100.00% Imperv. Primary=0.03 cfs 0.043 af

_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 9.10~Link 9.10L.hce Inflow=0.04 cfs 0.057 af
Area= 0.321 ac 100.00% Imperv. Primary=0.04 cfs 0.057 af

_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 9.11~Link 9.11L.hce Inflow=0.05 cfs 0.072 af
Area= 0.402 ac 100.00% Imperv. Primary=0.05 cfs 0.072 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 9.1~Link 9.1L.hce Inflow=0.03 cfs 0.043 af
Area= 0.241 ac 100.00% Imperv. Primary=0.03 cfs 0.043 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 9.5~Link 9.5L.hce Inflow=0.01 cfs 0.016 af
Area= 0.092 ac 100.00% Imperv. Primary=0.01 cfs 0.016 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 9.6~Link 9.6L.hce Inflow=0.07 cfs 0.100 af
Area= 0.562 ac 100.00% Imperv. Primary=0.07 cfs 0.100 af

Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 11.14~Link 11.14L.hce Inflow=0.01 cfs 0.014 af
Area= 0.080 ac 100.00% Imperv. Primary=0.01 cfs 0.014 af

Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 11.18~Link 11.18L.hce Inflow=0.01 cfs 0.018 af
Area= 0.103 ac 100.00% Imperv. Primary=0.01 cfs 0.018 af

Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 11.25~Link 11.25L.hce Inflow=0.02 cfs 0.029 af
Area= 0.161 ac 100.00% Imperv. Primary=0.02 cfs 0.029 af

Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 11.33~Link 11.33L.hce Inflow=0.01 cfs 0.014 af
Area= 0.080 ac 100.00% Imperv. Primary=0.01 cfs 0.014 af

_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 11.3~Link 11.3L.hce Inflow=0.05 cfs 0.078 af
Area= 0.436 ac 100.00% Imperv. Primary=0.05 cfs 0.078 af

_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 12.2~Link 12.2L.hce Inflow=0.05 cfs 0.068 af
Area= 0.379 ac 100.00% Imperv. Primary=0.05 cfs 0.068 af

Total Runoff Area = 449.666 ac Runoff Volume = 18.680 af Average Runoff Depth = 0.50"
93.36% Pervious = 419.787 ac 6.64% Impervious = 29.879 ac

Summary for Subcatchment 1.10S: Area 1.10

Runoff = 0.51 cfs @ 12.04 hrs, Volume= 0.034 af, Depth= 1.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
8,640	98	Paved parking, HSG C
2,000	71	Meadow, non-grazed, HSG C
10,640	93	Weighted Average
2,000		18.80% Pervious Area
8,640		81.20% Impervious Area

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

Summary for Subcatchment 1.11S: Area 1.11

Runoff = 0.67 cfs @ 12.06 hrs, Volume= 0.050 af, Depth= 1.93"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
12,060	98	Paved parking, HSG C
1,400	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
13,460	96	Weighted Average
1,400		10.40% Pervious Area
12,060		89.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.9	62	0.0200	0.15		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.5	38	0.0300	1.29		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
0.6	130	0.0300	3.52		Shallow Concentrated Flow, Paved Kv= 20.3 fps
8.0	230	Total			

Summary for Subcatchment 1.12S: Area 1.12

Runoff = 1.07 cfs @ 12.10 hrs, Volume= 0.086 af, Depth= 1.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 22

Area (sf)	CN	Description
17,805	98	Paved parking, HSG C
3,410	98	Roofs, HSG C
13,975	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
35,190	88	Weighted Average
13,975		39.71% Pervious Area
21,215		60.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	75	0.0200	0.16		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
2.7	566	0.0300	3.52		Shallow Concentrated Flow, Paved Kv= 20.3 fps
10.7	641	Total			

Summary for Subcatchment 1.13S: Area 1.13

Runoff = 0.69 cfs @ 12.05 hrs, Volume= 0.054 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
53,050	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
53,050	74	Weighted Average
53,050		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.1	50	0.2500	0.39		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
2.1	50	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.14S: Area 1.14

Runoff = 0.11 cfs @ 12.06 hrs, Volume= 0.010 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
11,800	71	Meadow, non-grazed, HSG C
11,800		100.00% Pervious Area

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

Summary for Subcatchment 1.15S: Area 1.15

Runoff = 1.37 cfs @ 12.04 hrs, Volume= 0.098 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
8,040	98	Paved parking, HSG C
15,790	98	Roofs, HSG C
0	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
23,830	98	Weighted Average
23,830		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,
5.0	0				Total, Increased to minimum Tc = 6.0 min

Summary for Subcatchment 1.16S: Area 1.16

Runoff = 0.92 cfs @ 12.04 hrs, Volume= 0.065 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
15,985	98	Roofs, HSG C
0	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
15,985	98	Weighted Average
15,985		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,
5.0	0				Total, Increased to minimum Tc = 6.0 min

Summary for Subcatchment 1.17S: Area 1.17

Runoff = 0.43 cfs @ 12.05 hrs, Volume= 0.033 af, Depth= 0.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
8,217	70	Woods, Good, HSG C
2,400	74	>75% Grass cover, Good, HSG C
19,624	77	Woods, Good, HSG D
30,241	75	Weighted Average
30,241		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	75	0.2500	0.43		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.3	30	0.1500	1.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.9	360	0.1000	6.67	37.22	Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=0.70' Z= 7.1 '/' Top.W=12.94' n= 0.040 Mountain streams
4.1	465	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.1S: Area-1.1

Runoff = 7.97 cfs @ 12.24 hrs, Volume= 1.165 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
1,500,780	70	Woods, Good, HSG C
11,590	77	Woods, Good, HSG D
30,280	74	>75% Grass cover, Good, HSG C
1,542,650	70	Weighted Average
1,542,650		100.00% Pervious Area

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Page 25

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.6	75	0.1200	0.15		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
7.8	1,425	0.3700	3.04		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.4	545	0.2000	24.25	698.34	Trap/Vee/Rect Channel Flow, Mountain Stream Bot.W=4.50' D=3.00' Z= 1.7 '/' Top.W=14.70' n= 0.040 Mountain streams
0.1	250	0.1600	30.49	2,126.93	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=11.00' D=4.50' Z= 1.0 '/' Top.W=20.00' n= 0.040 Mountain streams
16.9	2,295	Total			

Summary for Subcatchment 1.2S: Area 1.2

Runoff = 2.55 cfs @ 12.17 hrs, Volume= 0.330 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Roofs, HSG C
41,210	74	>75% Grass cover, Good, HSG C
395,569	70	Woods, Good, HSG C
0	77	Woods, Good, HSG D
436,779	70	Weighted Average
436,779		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	75	0.3300	0.22		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
6.5	1,175	0.3600	3.00		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.6	260	0.0500	7.40	38.86	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
12.8	1,510	Total			

Summary for Subcatchment 1.3S: Area-1.3

Runoff = 0.67 cfs @ 12.22 hrs, Volume= 0.094 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 26

Area (sf)	CN	Description
124,373	70	Woods, Good, HSG C
124,373		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0	90	0.0750	0.12		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
3.4	395	0.1500	1.94		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.1	265	0.1600	30.49	2,126.93	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=11.00' D=4.50' Z= 1.0 '/' Top.W=20.00' n= 0.040 Mountain streams
15.5	750	Total			

Summary for Subcatchment 1.4S: Area 1.4

Runoff = 2.79 cfs @ 12.13 hrs, Volume= 0.306 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
33,624	74	>75% Grass cover, Good, HSG C
89,440	77	Woods, Good, HSG D
210,806	70	Woods, Good, HSG C
12,034	65	Brush, Good, HSG C
345,904	72	Weighted Average
345,904		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	75	0.2500	0.43		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
1.2	119	0.1100	1.66		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
2.4	100	0.0750	0.68		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
3.9	450	0.1500	1.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.5	617	0.0950	22.37	1,509.82	Trap/Vee/Rect Channel Flow, Mountain Stream Bot.W=5.00' D=5.00' Z= 1.7 '/' Top.W=22.00' n= 0.040 Mountain streams
10.9	1,361	Total			

Summary for Subcatchment 1.5S: Area 1.5

Runoff = 3.76 cfs @ 12.26 hrs, Volume= 0.567 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
702,889	70	Woods, Good, HSG C
39,952	74	>75% Grass cover, Good, HSG C
0	98	Roofs, HSG C
7,435	77	Woods, Good, HSG D
750,276	70	Weighted Average
750,276		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	75	0.1400	0.15		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
8.9	1,550	0.3400	2.92		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.6	120	0.2000	3.13		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.4	220	0.0600	9.68	116.11	Trap/Vee/Rect Channel Flow, roadside channel Bot.W=2.00' D=2.00' Z= 2.0 '/ Top.W=10.00' n= 0.040 Mountain streams
18.0	1,965	Total			

Summary for Subcatchment 1.6S: Area 1.6

Runoff = 1.50 cfs @ 12.06 hrs, Volume= 0.123 af, Depth= 0.50"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
1,395	98	Paved parking, HSG C
0	98	Roofs, HSG C
65,620	74	>75% Grass cover, Good, HSG C
16,160	77	Woods, Good, HSG D
45,695	70	Woods, Good, HSG C
128,870	73	Weighted Average
127,475		98.92% Pervious Area
1,395		1.08% Impervious Area

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Page 28

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	75	0.1000	2.21		Shallow Concentrated Flow, lawn Short Grass Pasture Kv= 7.0 fps
2.0	250	0.1800	2.12		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
1.3	140	0.1300	1.80		Shallow Concentrated Flow, wetland Woodland Kv= 5.0 fps
3.9	465	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.7S: Area 1.7

Runoff = 2.15 cfs @ 12.04 hrs, Volume= 0.147 af, Depth= 1.93"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
36,835	98	Paved parking, HSG C
0	98	Roofs, HSG C
2,780	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
0	70	Woods, Good, HSG C
39,615	96	Weighted Average
2,780		7.02% Pervious Area
36,835		92.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0400	1.76		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
0.2	55	0.0400	4.06		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.8	1,090	0.1000	22.77	71.54	Pipe Channel, Road culvert 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013 Corrugated PE, smooth interior
1.9	1,245	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.8S: Area 1.8

Runoff = 0.70 cfs @ 12.05 hrs, Volume= 0.056 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 29

Area (sf)	CN	Description
0	98	Paved parking, HSG C
5,915	70	Woods, Good, HSG C
44,225	74	>75% Grass cover, Good, HSG C
4,060	77	Woods, Good, HSG D
54,200	74	Weighted Average
54,200		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.1	60	0.3600	0.47		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
2.5	40	0.1100	0.27		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.3	40	0.1100	2.32		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
4.9	140	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.9S: Area 1.9

Runoff = 2.29 cfs @ 12.05 hrs, Volume= 0.176 af, Depth= 0.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
29,215	98	Paved parking, HSG C
0	98	Roofs, HSG C
50,280	74	>75% Grass cover, Good, HSG C
45,210	70	Woods, Good, HSG C
35,105	65	Brush, Good, HSG C
159,810	75	Weighted Average
130,595		81.72% Pervious Area
29,215		18.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	75	0.1500	1.94		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.4	80	0.2000	3.13		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.9	575	0.0200	5.08	20.33	Trap/Vee/Rect Channel Flow, roadside channel Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.030 Earth, grassed & winding
2.9	730	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.10S: Area 2.10

Runoff = 2.24 cfs @ 12.17 hrs, Volume= 0.267 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
3,185	98	Paved parking, HSG C
98,190	74	>75% Grass cover, Good, HSG C
54,755	77	Woods, Good, HSG D
88,945	70	Woods, Good, HSG C
34,201	65	Brush, Good, HSG C
22,950	71	Meadow, non-grazed, HSG C
302,226	72	Weighted Average
299,041		98.95% Pervious Area
3,185		1.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	75	0.2500	0.19		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
7.2	650	0.0900	1.50		Shallow Concentrated Flow, wetland Woodland Kv= 5.0 fps
0.2	240	0.2000	19.45	233.42	Trap/Vee/Rect Channel Flow, Point 45 Bot.W=5.00' D=2.00' Z= 0.5 '/' Top.W=7.00' n= 0.040 Mountain streams
13.8	965	Total			

Summary for Subcatchment 2.1S: Area 2.1

Runoff = 1.22 cfs @ 12.22 hrs, Volume= 0.182 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
22,900	74	>75% Grass cover, Good, HSG C
170,946	70	Woods, Good, HSG C
68,235	65	Brush, Good, HSG C
262,081	69	Weighted Average
262,081		100.00% Pervious Area

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Page 31

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	75	0.2200	0.19		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
7.7	1,325	0.3300	2.87		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.6	120	0.2000	3.13		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.1	65	0.0600	9.68	116.11	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
15.2	1,585	Total			

Summary for Subcatchment 2.2S: Area 2.2

Runoff = 3.66 cfs @ 12.04 hrs, Volume= 0.262 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
63,870	98	Paved parking, HSG C
63,870		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	10	0.0200	0.84		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
1.2	350	0.0600	4.97		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.9	1,550	0.0600	13.30	65.31	Pipe Channel, 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.020 Corrugated PE, corrugated interior
3.3	1,910	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.3S: Area 2.3

Runoff = 1.07 cfs @ 12.06 hrs, Volume= 0.088 af, Depth= 0.50"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
66,110	74	>75% Grass cover, Good, HSG C
25,880	70	Woods, Good, HSG C
91,990	73	Weighted Average
91,990		100.00% Pervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 32

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	75	0.1800	0.37		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.7	133	0.4000	3.16		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
4.0	208	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.4S: Area 2.4

Runoff = 0.87 cfs @ 12.04 hrs, Volume= 0.062 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
15,150	98	Paved parking, HSG C
0	98	Roofs, HSG C
15,150	98	Weighted Average
15,150		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	10	0.0200	0.84		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
2.0	350	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.0	525	0.0200	8.67	61.31	Pipe Channel, 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.020 Corrugated PE, corrugated interior
3.2	885	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.5S: Area 2.5

Runoff = 0.46 cfs @ 12.04 hrs, Volume= 0.033 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
8,000	98	Paved parking, HSG C
0	98	Roofs, HSG C
8,000	98	Weighted Average
8,000		100.00% Impervious Area

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

Summary for Subcatchment 2.6S: Area 2.6

Runoff = 1.72 cfs @ 12.12 hrs, Volume= 0.188 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
76,450	74	>75% Grass cover, Good, HSG C
153,355	70	Woods, Good, HSG C
229,805	71	Weighted Average
229,805		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	75	0.3200	0.22		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
3.4	605	0.3500	2.96		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.6	120	0.2500	3.50		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.1	62	0.0470	8.56	102.77	Trap/Vee/Rect Channel Flow, roadside channel Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
9.9	862	Total			

Summary for Subcatchment 2.7S: Area 2.7

Runoff = 0.98 cfs @ 12.06 hrs, Volume= 0.089 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
52,563	74	>75% Grass cover, Good, HSG C
34,158	70	Woods, Good, HSG C
21,672	65	Brush, Good, HSG C
108,393	71	Weighted Average
108,393		100.00% Pervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 34

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	75	0.2200	0.41		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.3	50	0.2000	3.13		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.0	590	0.0600	9.68	116.11	Trap/Vee/Rect Channel Flow, roadside swale Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
4.4	715	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.8S: Area 2.8

Runoff = 0.19 cfs @ 12.06 hrs, Volume= 0.020 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Roofs, HSG C
9,160	74	>75% Grass cover, Good, HSG C
6,748	70	Woods, Good, HSG C
12,192	65	Brush, Good, HSG C
28,100	69	Weighted Average
28,100		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.8	75	0.2800	0.45		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
2.0	290	0.2300	2.40		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
4.8	365	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.9S: Area 2.9

Runoff = 1.20 cfs @ 12.11 hrs, Volume= 0.122 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
71,878	74	>75% Grass cover, Good, HSG C
59,280	70	Woods, Good, HSG C
6,987	65	Brush, Good, HSG C
138,145	72	Weighted Average
138,145		100.00% Pervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 35

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.3	50	0.2000	0.36		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
5.1	50	0.2000	0.16		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.4	55	0.1800	2.12		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.6	525	0.0200	5.59	67.04	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
9.4	680	Total			

Summary for Subcatchment 2aS: Area 2A

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 0.045 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
45,425	70	Woods, Good, HSG C
9,715	74	>75% Grass cover, Good, HSG C
55,140	71	Weighted Average
55,140		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	75	0.2000	0.18		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.7	110	0.3000	2.74		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
7.7	185	Total			

Summary for Subcatchment 2bS: Area 2b

Runoff = 1.60 cfs @ 12.10 hrs, Volume= 0.167 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
52,600	74	>75% Grass cover, Good, HSG C
151,520	70	Woods, Good, HSG C
204,120	71	Weighted Average
204,120		100.00% Pervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 36

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	20	0.2500	0.33		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
6.8	80	0.2500	0.20		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.6	60	0.1200	1.73		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
8.4	160	Total			

Summary for Subcatchment 3.1S: Area 3.1

Runoff = 0.82 cfs @ 12.06 hrs, Volume= 0.079 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
105,215	70	Woods, Good, HSG C
105,215		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	75	0.2500	0.43		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.9	125	0.2000	2.24		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.6	395	0.1100	11.15	83.65	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
4.4	595	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 4.1S: Area 4.1

Runoff = 3.66 cfs @ 12.17 hrs, Volume= 0.469 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Roofs, HSG C
89,715	74	>75% Grass cover, Good, HSG C
511,589	70	Woods, Good, HSG C
20,386	65	Brush, Good, HSG C
621,690	70	Weighted Average
621,690		100.00% Pervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 37

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	75	0.2000	0.27		Sheet Flow, ski trail Grass: Dense n= 0.240 P2= 3.00"
7.6	1,200	0.2800	2.65		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.3	115	0.0350	6.61	59.47	Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=1.50' Z= 2.0 '/' Top.W=9.00' n= 0.040 Earth, cobble bottom, clean sides
12.6	1,390	Total			

Summary for Subcatchment 4.2S: Area 4.2

Runoff = 1.85 cfs @ 12.04 hrs, Volume= 0.132 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
32,235	98	Paved parking, HSG C
32,235		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	40	0.0200	1.11		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
0.6	40	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 4.3S: Area 4.3

Runoff = 3.68 cfs @ 12.06 hrs, Volume= 0.301 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
24,400	98	Paved parking, HSG C
0	98	Roofs, HSG C
159,890	74	>75% Grass cover, Good, HSG C
61,766	70	Woods, Good, HSG C
46,834	65	Brush, Good, HSG C
292,890	74	Weighted Average
268,490		91.67% Pervious Area
24,400		8.33% Impervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 38

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	75	0.2500	0.43		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
1.8	285	0.2800	2.65		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.5	135	0.0100	4.48	33.63	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.030 Earth, grassed & winding
1.4	565	0.0200	6.62	20.80	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
6.6	1,060	Total			

Summary for Subcatchment 4.4S: Area 4.4

Runoff = 0.83 cfs @ 12.06 hrs, Volume= 0.069 af, Depth= 0.50"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
7,500	98	Paved parking, HSG C
0	98	Roofs, HSG C
31,290	74	>75% Grass cover, Good, HSG C
5,074	70	Woods, Good, HSG C
28,376	65	Brush, Good, HSG C
72,240	73	Weighted Average
64,740		89.62% Pervious Area
7,500		10.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	75	0.1200	0.32		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
1.5	185	0.1800	2.12		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.7	120	0.1500	2.71		Shallow Concentrated Flow, grass Short Grass Pasture Kv= 7.0 fps
6.1	380	Total			

Summary for Subcatchment 4.5S: Area 4.5

Runoff = 0.60 cfs @ 12.05 hrs, Volume= 0.048 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 39

Area (sf)	CN	Description
46,440	74	>75% Grass cover, Good, HSG C
46,440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	30	0.1250	0.27		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
1.9	30	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 4.6S: Area-4.6

Runoff = 1.60 cfs @ 12.06 hrs, Volume= 0.137 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
87,875	70	Woods, Good, HSG C
67,135	74	>75% Grass cover, Good, HSG C
155,010	72	Weighted Average
155,010		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	900	0.1000	12.49	149.90	Trap/Vee/Rect Channel Flow, roadside swale Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
1.2	900	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 4.7S: Area-4.7

Runoff = 0.95 cfs @ 12.07 hrs, Volume= 0.090 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
88,830	70	Woods, Good, HSG C
21,320	74	>75% Grass cover, Good, HSG C
110,150	71	Weighted Average
110,150		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	75	0.3400	0.22		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.1	245	0.5200	3.61		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
6.8	320	Total			

Summary for Subcatchment 4.8: Area-4.8

Runoff = 0.01 cfs @ 12.16 hrs, Volume= 0.001 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
1,585	70	Woods, Good, HSG C
1,585		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.8	75	0.2200	0.11		Sheet Flow, Sheet flow: Woods Woods: Dense underbrush n= 0.800 P2= 3.00"
0.2	25	0.2200	2.35		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
12.0	100	Total			

Summary for Subcatchment 5.1S: Area-5.1

Runoff = 3.92 cfs @ 12.14 hrs, Volume= 0.453 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
475,378	72	Woods/grass comb., Good, HSG C
77,787	65	Brush, Good, HSG C
553,165	71	Weighted Average
553,165		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	75	0.3200	0.22		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.8	305	0.3200	2.83		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
1.6	910	0.0900	9.72	48.60	Channel Flow, Grassed/Roadside Swale Area= 5.0 sf Perim= 7.5' r= 0.67' n= 0.035 Earth, dense weeds
1.7	910	0.0800	9.09	18.18	Trap/Vee/Rect Channel Flow, DITCH Bot.W=1.00' D=1.00' Z= 1.0 '/' Top.W=3.00' n= 0.030 Earth, grassed & winding
10.9	2,200	Total			

Summary for Subcatchment 5.2S: Area-5.2

Runoff = 1.10 cfs @ 12.12 hrs, Volume= 0.121 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
55,210	74	>75% Grass cover, Good, HSG C
4,470	77	Woods, Good, HSG D
68,322	70	Woods, Good, HSG C
19,333	65	Brush, Good, HSG C
147,335	71	Weighted Average
147,335		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.1	50	0.2000	0.16		Sheet Flow, WOODS
					Woods: Light underbrush n= 0.400 P2= 3.00"
4.2	225	0.1300	0.90		Shallow Concentrated Flow, WETLAND FLOW
					Forest w/Heavy Litter Kv= 2.5 fps
0.6	420	0.1100	10.98	57.63	Trap/Vee/Rect Channel Flow, SWALE
					Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00'
					n= 0.040 Earth, cobble bottom, clean sides
9.9	695	Total			

Summary for Subcatchment 5.3S: Area 5.3

Runoff = 2.66 cfs @ 12.09 hrs, Volume= 0.289 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
23,664	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
358,601	70	Woods, Good, HSG C
382,265	70	Weighted Average
382,265		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.4	60	0.4000	0.22		Sheet Flow, WOODS Woods: Light underbrush n= 0.400 P2= 3.00"
1.5	278	0.4000	3.16		Shallow Concentrated Flow, WOODS Woodland Kv= 5.0 fps
1.7	1,190	0.1200	11.47	60.20	Trap/Vee/Rect Channel Flow, SWALE Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
7.6	1,528	Total			

Summary for Subcatchment 6.1S: Area 6.1

Runoff = 0.40 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 1.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
1,500	74	>75% Grass cover, Good, HSG C
8,000	94	Weighted Average
1,500		18.75% Pervious Area
6,500		81.25% Impervious Area

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

Summary for Subcatchment 6.2S: Area 6.2

Runoff = 0.40 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 1.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
1,500	74	>75% Grass cover, Good, HSG C
8,000	94	Weighted Average
1,500		18.75% Pervious Area
6,500		81.25% Impervious Area

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

Summary for Subcatchment 6.3S: Area 6.3

Runoff = 0.40 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 1.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
1,500	74	>75% Grass cover, Good, HSG C
8,000	94	Weighted Average
1,500		18.75% Pervious Area
6,500		81.25% Impervious Area

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

Summary for Subcatchment 6.4S: AREA 6.1

Runoff = 0.18 cfs @ 12.12 hrs, Volume= 0.032 af, Depth= 0.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Roofs, HSG C
0	74	>75% Grass cover, Good, HSG C
66,488	65	Brush, Good, HSG C
66,488	65	Weighted Average
66,488		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	75	0.1600	0.40		Sheet Flow, meadow Range n= 0.130 P2= 3.00"
1.9	305	0.1500	2.71		Shallow Concentrated Flow, meadow Short Grass Pasture Kv= 7.0 fps
5.0	380				Total, Increased to minimum Tc = 6.0 min

Summary for Subcatchment 7.1S: Area-7

Runoff = 0.28 cfs @ 12.12 hrs, Volume= 0.051 af, Depth= 0.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 44

Area (sf)	CN	Description
105,675	65	Brush, Good, HSG C
105,675		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	75	0.1800	0.26		Sheet Flow, Sheet flow: Meadow Grass: Dense n= 0.240 P2= 3.00"
0.4	75	0.2000	3.13		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
5.3	150	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.10S: Area 8.10

Runoff = 2.68 cfs @ 12.06 hrs, Volume= 0.218 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
17,810	98	Paved parking, HSG C
0	98	Roofs, HSG C
106,562	74	>75% Grass cover, Good, HSG C
87,646	70	Woods, Good, HSG C
212,018	74	Weighted Average
194,208		91.60% Pervious Area
17,810		8.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	75	0.1200	0.32		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
1.8	275	0.2500	2.50		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.8	412	0.0600	8.11	42.57	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
6.5	762	Total			

Summary for Subcatchment 8.11S: Area-8.11

Runoff = 0.95 cfs @ 12.06 hrs, Volume= 0.092 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 45

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
48,233	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
28,882	70	Woods, Good, HSG C
44,285	65	Brush, Good, HSG C
121,400	70	Weighted Average
121,400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	75	0.2000	0.39		Sheet Flow, field Grass: Short n= 0.150 P2= 3.00"
2.3	235	0.1200	1.73		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	275	0.1200	11.65	87.37	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
5.9	585	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.12S: Area 8.12

Runoff = 1.12 cfs @ 12.04 hrs, Volume= 0.073 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
17,800	98	Paved parking, HSG C
0	98	Roofs, HSG C
9,216	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
27,016	90	Weighted Average
9,216		34.11% Pervious Area
17,800		65.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0200	0.97		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.6	265	0.1300	7.32		Shallow Concentrated Flow, road/gutter Paved Kv= 20.3 fps
0.7	580	0.0800	13.24	41.59	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
1.6	865	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.13S: Area 8.13

Runoff = 1.09 cfs @ 12.04 hrs, Volume= 0.071 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
17,600	98	Paved parking, HSG C
0	98	Roofs, HSG C
8,692	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
26,292	90	Weighted Average
8,692		33.06% Pervious Area
17,600		66.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0200	0.97		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.8	275	0.0800	5.74		Shallow Concentrated Flow, road/gutter Paved Kv= 20.3 fps
0.6	500	0.0800	13.24	41.59	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
1.7	795	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.15S: Area 8.15

Runoff = 2.24 cfs @ 12.05 hrs, Volume= 0.153 af, Depth= 0.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
32,140	98	Paved parking, HSG C
0	98	Roofs, HSG C
39,800	74	>75% Grass cover, Good, HSG C
22,178	70	Woods, Good, HSG C
94,118	81	Weighted Average
61,978		65.85% Pervious Area
32,140		34.15% Impervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 47

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0200	0.97		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.6	270	0.1200	7.03		Shallow Concentrated Flow, road/gutter Paved Kv= 20.3 fps
1.6	1,307	0.0800	13.24	41.59	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
2.5	1,597	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.16S: Area 8.16

Runoff = 0.45 cfs @ 12.05 hrs, Volume= 0.031 af, Depth= 0.80"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
6,200	98	Paved parking, HSG C
0	98	Roofs, HSG C
8,876	74	>75% Grass cover, Good, HSG C
0	79	Woods/grass comb., Good, HSG D
5,500	70	Woods, Good, HSG C
20,576	80	Weighted Average
14,376		69.87% Pervious Area
6,200		30.13% Impervious Area

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

Summary for Subcatchment 8.17S: Area 8.17

Runoff = 2.43 cfs @ 12.05 hrs, Volume= 0.167 af, Depth= 0.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
33,680	98	Paved parking, HSG C
6,500	98	Roofs, HSG C
27,455	65	Brush, Good, HSG C
34,828	74	>75% Grass cover, Good, HSG C
102,463	81	Weighted Average
62,283		60.79% Pervious Area
40,180		39.21% Impervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 48

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0200	0.97		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.6	250	0.1200	7.03		Shallow Concentrated Flow, road/curb Paved Kv= 20.3 fps
0.9	610	0.0800	10.93	19.31	Pipe Channel, pipe system 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.020 Corrugated PE, corrugated interior
0.7	450	0.1090	11.10	83.27	Trap/Vee/Rect Channel Flow, Roadside swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
2.5	1,330	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.1S: Area-8.1

Runoff = 1.08 cfs @ 12.12 hrs, Volume= 0.144 af, Depth= 0.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
18,421	74	>75% Grass cover, Good, HSG C
6,750	77	Woods, Good, HSG D
76,355	70	Woods, Good, HSG C
124,249	65	Brush, Good, HSG C
225,775	68	Weighted Average
225,775		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	75	0.2000	0.27		Sheet Flow, field Grass: Dense n= 0.240 P2= 3.00"
1.6	235	0.1200	2.42		Shallow Concentrated Flow, wetland Short Grass Pasture Kv= 7.0 fps
2.8	807	0.0800	4.76	35.67	Trap/Vee/Rect Channel Flow, STREAM Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.080 Earth, long dense weeds
9.1	1,117	Total			

Summary for Subcatchment 8.2S: Area 8.2

Runoff = 0.89 cfs @ 12.10 hrs, Volume= 0.089 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 49

Area (sf)	CN	Description
74,864	70	Woods, Good, HSG C
15,936	65	Brush, Good, HSG C
9,600	98	Roofs, HSG C
100,400	72	Weighted Average
90,800		90.44% Pervious Area
9,600		9.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.6	40	0.3000	0.41		Sheet Flow, GRASS Grass: Short n= 0.150 P2= 3.00"
5.0	60	0.3000	0.20		Sheet Flow, WOODS Woods: Light underbrush n= 0.400 P2= 3.00"
2.1	350	0.3000	2.74		Shallow Concentrated Flow, WOODS Woodland Kv= 5.0 fps
8.7	450	Total			

Summary for Subcatchment 8.3S: Area 8.3

Runoff = 0.86 cfs @ 12.05 hrs, Volume= 0.063 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
8,440	98	Paved parking, HSG C
0	98	Roofs, HSG C
32,950	74	>75% Grass cover, Good, HSG C
8,500	70	Woods, Good, HSG C
49,890	77	Weighted Average
41,450		83.08% Pervious Area
8,440		16.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	415	0.0300	4.69	14.06	Trap/Vee/Rect Channel Flow, SWALE Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.040 Earth, cobble bottom, clean sides
1.5	415	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.4S: Area 8.4

Runoff = 1.73 cfs @ 12.11 hrs, Volume= 0.184 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 50

Area (sf)	CN	Description
7,416	98	Paved parking, HSG C
0	98	Roofs, HSG C
25,680	74	>75% Grass cover, Good, HSG C
191,475	70	Woods, Good, HSG C
224,571	71	Weighted Average
217,155		96.70% Pervious Area
7,416		3.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	75	0.3000	0.21		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
2.5	475	0.4000	3.16		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.6	340	0.0800	9.36	49.15	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
9.1	890	Total			

Summary for Subcatchment 8.5S: Area-8.5

Runoff = 2.56 cfs @ 12.49 hrs, Volume= 0.495 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
21,540	74	>75% Grass cover, Good, HSG C
7,015	77	Woods, Good, HSG D
610,710	70	Woods, Good, HSG C
15,820	65	Brush, Good, HSG C
655,085	70	Weighted Average
655,085		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	90	0.0800	0.13		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
0.9	127	0.2200	2.35		Shallow Concentrated Flow, WOODS Woodland Kv= 5.0 fps
17.8	1,036	0.1500	0.97		Shallow Concentrated Flow, wetland flow Forest w/Heavy Litter Kv= 2.5 fps
0.8	515	0.1700	11.11	44.45	Trap/Vee/Rect Channel Flow, STREAM Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Mountain streams
31.2	1,768	Total			

Summary for Subcatchment 8.6S: Area 8.6

Runoff = 1.92 cfs @ 12.12 hrs, Volume= 0.170 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
21,368	98	Paved parking, HSG C
12,400	98	Roofs, HSG C
38,886	74	>75% Grass cover, Good, HSG C
45,612	70	Woods, Good, HSG C
118,266	79	Weighted Average
84,498		71.45% Pervious Area
33,768		28.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.6	75	0.1200	0.15		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.2	219	0.4000	3.16		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.8	193	0.0700	3.97		Shallow Concentrated Flow, grass Grassed Waterway Kv= 15.0 fps
0.7	250	0.0200	6.34	47.56	Trap/Vee/Rect Channel Flow, dry swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.030 Earth, grassed & winding
11.3	737	Total			

Summary for Subcatchment 8.7S: Area 8.7

Runoff = 3.34 cfs @ 12.08 hrs, Volume= 0.267 af, Depth= 0.80"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
46,184	98	Paved parking, HSG C
10,440	98	Roofs, HSG C
42,927	74	>75% Grass cover, Good, HSG C
74,697	70	Woods, Good, HSG C
174,248	80	Weighted Average
117,624		67.50% Pervious Area
56,624		32.50% Impervious Area

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Page 52

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	75	0.3100	0.21		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.0	165	0.3100	2.78		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.4	70	0.2000	3.13		Shallow Concentrated Flow, grass Short Grass Pasture Kv= 7.0 fps
0.2	50	0.0400	4.06		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.2	92	0.0200	6.34	47.56	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.030 Earth, grassed & winding
0.1	50	0.0400	5.90	4.63	Pipe Channel, 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
0.7	408	0.0800	9.36	49.15	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
8.5	910	Total			

Summary for Subcatchment 8.8S: Area 8.8

Runoff = 0.61 cfs @ 12.06 hrs, Volume= 0.055 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Roofs, HSG C
19,048	74	>75% Grass cover, Good, HSG C
48,270	70	Woods, Good, HSG C
67,318	71	Weighted Average
67,318		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	524	0.0850	7.89	23.66	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.040 Earth, cobble bottom, clean sides
1.1	524	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.9S: Area 8.9

Runoff = 1.37 cfs @ 12.04 hrs, Volume= 0.090 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 53

Area (sf)	CN	Description
22,800	98	Paved parking, HSG C
0	98	Roofs, HSG C
8,665	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
31,465	91	Weighted Average
8,665		27.54% Pervious Area
22,800		72.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	20	0.0800	1.68		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.6	210	0.0750	5.56		Shallow Concentrated Flow, road Paved Kv= 20.3 fps
1.2	895	0.0700	12.38	38.90	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
2.0	1,125	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 9.10S: Area 9.10

Runoff = 3.68 cfs @ 12.06 hrs, Volume= 0.303 af, Depth= 0.50"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
27,100	98	Unconnected roofs, HSG C
132,286	74	>75% Grass cover, Good, HSG C
145,503	70	Woods, Good, HSG C
12,332	65	Brush, Good, HSG C
317,221	74	Weighted Average, UI Adjusted CN = 73
290,121		91.46% Pervious Area
27,100		8.54% Impervious Area
27,100		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	1,240	0.1000	12.10	96.77	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=2.00' Z= 1.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
1.7	1,240	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 9.11S: Area 9.11S

Runoff = 0.86 cfs @ 12.16 hrs, Volume= 0.104 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
56,160	74	>75% Grass cover, Good, HSG C
2,590	77	Woods, Good, HSG D
54,069	70	Woods, Good, HSG C
14,081	65	Brush, Good, HSG C
126,900	71	Weighted Average
126,900		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	75	0.2000	0.18		Sheet Flow, WOODS Woods: Light underbrush n= 0.400 P2= 3.00"
0.3	45	0.2500	2.50		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.9	40	0.0800	0.71		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
0.9	115	0.2000	2.24		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
3.5	700	0.0100	3.36	25.22	Trap/Vee/Rect Channel Flow, swale w/ checkdams Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
12.6	975	Total			

Summary for Subcatchment 9.12S: Area 9.12S

Runoff = 1.52 cfs @ 12.04 hrs, Volume= 0.102 af, Depth= 1.84"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
24,900	98	Paved parking, HSG C
4,160	74	>75% Grass cover, Good, HSG C
29,060	95	Weighted Average
4,160		14.32% Pervious Area
24,900		85.68% Impervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 55

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	75	0.0250	1.37		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
1.7	285	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	565	0.0200	6.62	20.80	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
4.0	925	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 9.13S: Area 9.13

Runoff = 2.84 cfs @ 12.04 hrs, Volume= 0.203 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
45,985	98	Paved parking, HSG C
3,500	98	Roofs, HSG C
0	70	Woods, Good, HSG C
49,485	98	Weighted Average
49,485		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	90	0.0500	1.88		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
1.0	390	0.0950	6.26		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	1,215	0.1000	14.80	46.50	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
3.2	1,695	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 9.14S: Area 9.14

Runoff = 1.65 cfs @ 12.10 hrs, Volume= 0.182 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
225,235	70	Woods, Good, HSG C
16,365	65	Brush, Good, HSG C
241,600	70	Weighted Average
241,600		100.00% Pervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 56

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	75	0.3500	0.22		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
2.1	400	0.4000	3.16		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.6	415	0.0800	10.82	86.55	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=2.00' Z= 1.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
8.3	890	Total			

Summary for Subcatchment 9.1S: Area 9.1

Runoff = 0.77 cfs @ 12.10 hrs, Volume= 0.098 af, Depth= 0.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,600	98	Paved parking, HSG C
0	98	Roofs, HSG C
10,062	74	>75% Grass cover, Good, HSG C
15,716	70	Woods, Good, HSG C
6,220	77	Woods, Good, HSG D
117,192	65	Brush, Good, HSG C
153,790	68	Weighted Average
149,190		97.01% Pervious Area
4,600		2.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	75	0.1800	0.37		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
2.2	515	0.3000	3.83		Shallow Concentrated Flow, field Short Grass Pasture Kv= 7.0 fps
1.5	130	0.0800	1.41		Shallow Concentrated Flow, wetland Woodland Kv= 5.0 fps
0.3	40	0.0200	2.64	26.37	Trap/Vee/Rect Channel Flow, ditch Bot.W=1.00' D=2.00' Z= 2.0 '/' Top.W=9.00' n= 0.080 Earth, long dense weeds
7.3	760	Total			

Summary for Subcatchment 9.5S: Area 9.5

Runoff = 0.41 cfs @ 12.10 hrs, Volume= 0.043 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 57

Area (sf)	CN	Description
6,300	98	Paved parking, HSG C
0	98	Roofs, HSG C
5,500	74	>75% Grass cover, Good, HSG C
6,424	70	Woods, Good, HSG C
34,019	65	Brush, Good, HSG C
52,243	71	Weighted Average
45,943		87.94% Pervious Area
6,300		12.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	75	0.2000	0.18		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.3	175	0.2000	2.24		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	162	0.2000	6.71		Shallow Concentrated Flow, grass Grassed Waterway Kv= 15.0 fps
8.7	412	Total			

Summary for Subcatchment 9.6S: Area 9.6

Runoff = 2.37 cfs @ 12.05 hrs, Volume= 0.182 af, Depth= 0.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
17,820	98	Paved parking, HSG C
0	98	Roofs, HSG C
70,795	74	>75% Grass cover, Good, HSG C
69,520	70	Woods, Good, HSG C
6,720	65	Brush, Good, HSG C
164,855	75	Weighted Average
147,035		89.19% Pervious Area
17,820		10.81% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	543	0.1000	12.49	149.90	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
0.7	543	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 9.9S: Area 9.9

Runoff = 0.99 cfs @ 12.06 hrs, Volume= 0.085 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
45,220	74	>75% Grass cover, Good, HSG C
50,524	70	Woods, Good, HSG C
95,744	72	Weighted Average
95,744		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	75	0.2200	0.41		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
1.0	225	0.3000	3.83		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
4.1	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.10S: Area-11.10

Runoff = 1.08 cfs @ 12.04 hrs, Volume= 0.070 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
7,150	98	Paved parking, HSG C
10,000	98	Roofs, HSG C
8,850	74	>75% Grass cover, Good, HSG C
26,000	90	Weighted Average
8,850		34.04% Pervious Area
17,150		65.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	60	0.0500	1.73		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.4	160	0.0300	6.22	24.90	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.030 Earth, grassed & winding
1.0	220	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.11S: Area-11.11

Runoff = 2.21 cfs @ 12.04 hrs, Volume= 0.145 af, Depth= 1.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
17,000	98	Paved parking, HSG C
18,866	98	Roofs, HSG C
23,654	74	>75% Grass cover, Good, HSG C
59,520	88	Weighted Average
23,654		39.74% Pervious Area
35,866		60.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	45	0.3000	0.41		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
0.5	32	0.0200	1.06		Sheet Flow, parking lot Smooth surfaces n= 0.011 P2= 3.00"
0.4	100	0.0350	3.80		Shallow Concentrated Flow, parking lot Paved Kv= 20.3 fps
0.8	320	0.0500	6.59	5.18	Pipe Channel, closed pipe system 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
3.5	497	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.12S: Area-11.12

Runoff = 0.43 cfs @ 12.06 hrs, Volume= 0.041 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	74	>75% Grass cover, Good, HSG C
54,672	70	Woods, Good, HSG C
54,672	70	Weighted Average
54,672		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	60	0.5000	0.25		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
1.6	224	0.2200	2.35		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
5.7	284	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.13S: Area-11.13

Runoff = 0.58 cfs @ 12.04 hrs, Volume= 0.042 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	74	>75% Grass cover, Good, HSG C
10,160	98	Paved parking, HSG C
10,160	98	Weighted Average
10,160		100.00% Impervious Area

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

Summary for Subcatchment 11.14S: Area-11.14

Runoff = 1.36 cfs @ 12.15 hrs, Volume= 0.160 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
8,100	74	>75% Grass cover, Good, HSG C
34,123	77	Woods, Good, HSG D
136,566	70	Woods, Good, HSG C
16,374	65	Brush, Good, HSG C
195,163	71	Weighted Average
195,163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.4	60	0.4000	0.22		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
0.9	160	0.3300	2.87		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
6.3	300	0.1000	0.79		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
11.6	520	Total			

Summary for Subcatchment 11.15S: Area-11.15

Runoff = 0.43 cfs @ 12.16 hrs, Volume= 0.047 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 61

Area (sf)	CN	Description
12,000	74	>75% Grass cover, Good, HSG C
6,478	79	Woods/grass comb., Good, HSG D
27,065	72	Woods/grass comb., Good, HSG C
45,543	74	Weighted Average
45,543		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	75	0.2700	0.20		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.6	116	0.2500	3.50		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
3.7	175	0.1000	0.79		Shallow Concentrated Flow, WETLAND Forest w/Heavy Litter Kv= 2.5 fps
3.0	470	0.2800	2.65		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
13.5	836	Total			

Summary for Subcatchment 11.16S: Area-11.16

Runoff = 1.06 cfs @ 12.04 hrs, Volume= 0.069 af, Depth= 1.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
11,785	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
0	70	Woods, Good, HSG C
16,750	98	Paved parking, HSG C
28,535	88	Weighted Average
11,785		41.30% Pervious Area
16,750		58.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	25	0.0200	1.01		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.7	225	0.0800	5.74		Shallow Concentrated Flow, curb/gutter Paved Kv= 20.3 fps
0.9	440	0.0800	8.34	6.55	Pipe Channel, closed pipe system 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
2.0	690	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.17S: Area-11.17

Runoff = 0.76 cfs @ 12.04 hrs, Volume= 0.050 af, Depth= 1.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
8,930	98	Paved parking, HSG C
3,500	98	Roofs, HSG C
3,471	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
0	70	Woods, Good, HSG C
15,901	93	Weighted Average
3,471		21.83% Pervious Area
12,430		78.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0250	1.06		Sheet Flow, gravel drive Smooth surfaces n= 0.011 P2= 3.00"
3.3	500	0.0250	2.55		Shallow Concentrated Flow, gravel drive Unpaved Kv= 16.1 fps
3.6	520	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.18S: Area-11.18

Runoff = 2.46 cfs @ 12.27 hrs, Volume= 0.375 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
21,949	74	>75% Grass cover, Good, HSG C
461,725	70	Woods, Good, HSG C
12,570	65	Brush, Good, HSG C
496,244	70	Weighted Average
496,244		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.3	75	0.1000	0.14		Sheet Flow, grass Woods: Light underbrush n= 0.400 P2= 3.00"
8.7	1,425	0.3000	2.74		Shallow Concentrated Flow, WOODS Woodland Kv= 5.0 fps
0.5	250	0.0650	8.57	64.30	Trap/Vee/Rect Channel Flow, SWALE Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
18.5	1,750	Total			

Summary for Subcatchment 11.19S: Area-11.19

Runoff = 1.70 cfs @ 12.32 hrs, Volume= 0.276 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
28,500	74	>75% Grass cover, Good, HSG C
213,698	70	Woods, Good, HSG C
10,062	65	Brush, Good, HSG C
113,495	71	Meadow, non-grazed, HSG C
365,755	70	Weighted Average
365,755		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	75	0.1800	0.17		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
1.6	225	0.2200	2.35		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
6.1	1,082	0.1800	2.97		Shallow Concentrated Flow, SKI TRAIL Short Grass Pasture Kv= 7.0 fps
6.4	1,054	0.3000	2.74		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.2	150	0.1500	10.44	41.76	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
21.6	2,586	Total			

Summary for Subcatchment 11.20S: Area-11.20

Runoff = 0.19 cfs @ 12.06 hrs, Volume= 0.020 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,400	74	>75% Grass cover, Good, HSG C
20,578	70	Woods, Good, HSG C
5,272	65	Brush, Good, HSG C
0	98	Paved parking, HSG C
28,250	69	Weighted Average
28,250		100.00% Pervious Area

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Page 64

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	45	0.3000	0.41		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
0.5	32	0.0200	1.06		Sheet Flow, parking lot Smooth surfaces n= 0.011 P2= 3.00"
0.4	100	0.0350	3.80		Shallow Concentrated Flow, parking lot Paved Kv= 20.3 fps
0.8	320	0.0500	6.59	5.18	Pipe Channel, closed pipe system 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
3.5	497	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.21S: Area-11.21

Runoff = 1.41 cfs @ 12.11 hrs, Volume= 0.156 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
186,893	70	Woods, Good, HSG C
3,300	74	>75% Grass cover, Good, HSG C
17,051	71	Meadow, non-grazed, HSG C
207,244	70	Weighted Average
207,244		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	60	0.4200	0.35		Sheet Flow, ski trail Grass: Dense n= 0.240 P2= 3.00"
1.4	350	0.3600	4.20		Shallow Concentrated Flow, ski trail Short Grass Pasture Kv= 7.0 fps
4.2	785	0.3800	3.08		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.1	56	0.0400	6.73	50.44	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Mountain streams
8.6	1,251	Total			

Summary for Subcatchment 11.23S: Area 11.23

Runoff = 0.71 cfs @ 12.05 hrs, Volume= 0.055 af, Depth= 0.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 65

Area (sf)	CN	Description
6,960	98	Paved parking, HSG C
0	98	Roofs, HSG C
* 18,113	74	>75% Grass cover, Good, HSG C
24,427	70	Woods, Good, HSG C
49,500	75	Weighted Average
42,540		85.94% Pervious Area
6,960		14.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	25	0.0200	1.01		Sheet Flow, driveway Smooth surfaces n= 0.011 P2= 3.00"
0.9	465	0.0400	8.83	46.34	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.030 Earth, grassed & winding
1.3	490	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.24S: Area 11.24

Runoff = 0.51 cfs @ 12.05 hrs, Volume= 0.036 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
5,620	98	Paved parking, HSG C
0	98	Roofs, HSG C
16,892	74	>75% Grass cover, Good, HSG C
2,522	70	Woods, Good, HSG C
25,034	79	Weighted Average
19,414		77.55% Pervious Area
5,620		22.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	30	0.0400	1.38		Sheet Flow, DRIVEWAY Smooth surfaces n= 0.011 P2= 3.00"
0.1	15	0.0500	3.35		Shallow Concentrated Flow, GRASS Grassed Waterway Kv= 15.0 fps
0.5	270	0.0900	9.93	52.13	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
0.9	160	0.0100	2.95	2.32	Pipe Channel, culvert 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
1.9	475	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.25S: Area 11.25

Runoff = 0.54 cfs @ 12.10 hrs, Volume= 0.056 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
3,360	74	>75% Grass cover, Good, HSG C
57,735	70	Woods, Good, HSG C
7,755	77	Woods, Good, HSG D
68,850	71	Weighted Average
68,850		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.6	60	0.3600	0.22		Sheet Flow, GRASS Woods: Light underbrush n= 0.400 P2= 3.00"
2.6	40	0.1000	0.26		Sheet Flow, wetland Grass: Short n= 0.150 P2= 3.00"
0.3	140	0.2800	7.94		Shallow Concentrated Flow, wetland Grassed Waterway Kv= 15.0 fps
1.1	215	0.0100	3.36	25.22	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
8.6	455	Total			

Summary for Subcatchment 11.26S: Area-11.26

Runoff = 1.60 cfs @ 12.04 hrs, Volume= 0.104 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
26,015	98	Paved parking, HSG C
0	98	Roofs, HSG C
12,531	74	>75% Grass cover, Good, HSG C
38,546	90	Weighted Average
12,531		32.51% Pervious Area
26,015		67.49% Impervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 67

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.16		Sheet Flow, ROAD Smooth surfaces n= 0.011 P2= 3.00"
2.1	440	0.0300	3.52		Shallow Concentrated Flow, CURB/GUTTER Paved Kv= 20.3 fps
2.8	490	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.27S: Area-11.27

Runoff = 2.89 cfs @ 12.04 hrs, Volume= 0.189 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
12,146	98	Paved parking, HSG C
34,850	98	Roofs, HSG C
9,400	71	Meadow, non-grazed, HSG C
9,824	74	>75% Grass cover, Good, HSG C
66,220	91	Weighted Average
19,224		29.03% Pervious Area
46,996		70.97% Impervious Area

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

Summary for Subcatchment 11.28S: Area-11.28

Runoff = 0.34 cfs @ 12.04 hrs, Volume= 0.025 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	74	>75% Grass cover, Good, HSG C
6,000	98	Paved parking, HSG C
6,000	98	Weighted Average
6,000		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0200	0.97		Sheet Flow, paved Smooth surfaces n= 0.011 P2= 3.00"
0.3	20	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.29S: Area 11.29

Runoff = 0.19 cfs @ 12.06 hrs, Volume= 0.017 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
* 4,200	74	>75% Grass cover, Good, HSG C
13,044	70	Woods, Good, HSG C
3,863	71	Meadow, non-grazed, HSG C
21,107	71	Weighted Average
21,107		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	50	0.4000	0.48		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
3.8	50	0.4000	0.22		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.2	95	0.0400	6.73	50.44	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 2.0 '/ Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
5.8	195	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.2S: Area-11.2

Runoff = 5.24 cfs @ 12.46 hrs, Volume= 0.981 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,200	74	>75% Grass cover, Good, HSG C
953,056	70	Woods, Good, HSG C
19,327	77	Woods, Good, HSG D
121,511	65	Brush, Good, HSG C
202,670	71	Meadow, non-grazed, HSG C
1,298,764	70	Weighted Average
1,298,764		100.00% Pervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 69

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	75	0.0933	0.08		Sheet Flow, Sheet flow: Woods Woods: Dense underbrush n= 0.800 P2= 3.00"
4.4	575	0.0960	2.17		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
5.3	885	0.3110	2.79		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
2.2	355	0.2817	2.65		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
1.1	830	0.2200	12.64	50.57	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Mountain streams
29.6	2,720	Total			

Summary for Subcatchment 11.32S: Area-11.5

Runoff = 0.96 cfs @ 12.31 hrs, Volume= 0.164 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
211,704	70	Woods, Good, HSG C
24,402	65	Brush, Good, HSG C
236,106	69	Weighted Average
236,106		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	75	0.1800	0.26		Sheet Flow, Sheet flow: Ski Trail Grass: Dense n= 0.240 P2= 3.00"
2.4	425	0.1800	2.97		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
13.2	720	0.0330	0.91		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.1	83	0.1800	14.27	107.01	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
20.6	1,303	Total			

Summary for Subcatchment 11.33S: Area-11.33

Runoff = 0.67 cfs @ 12.32 hrs, Volume= 0.102 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 70

Area (sf)	CN	Description
8,845	74	>75% Grass cover, Good, HSG C
24,220	77	Woods, Good, HSG D
82,025	70	Woods, Good, HSG C
0	98	Paved parking, HSG C
115,090	72	Weighted Average
115,090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	50	0.1500	0.15		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
11.7	50	0.1000	0.07		Sheet Flow, wetland Woods: Dense underbrush n= 0.800 P2= 3.00"
3.0	140	0.1000	0.79		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
2.7	430	0.2800	2.65		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
23.1	670	Total			

Summary for Subcatchment 11.34S: Area-11.34

Runoff = 0.41 cfs @ 12.18 hrs, Volume= 0.050 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
6,615	74	>75% Grass cover, Good, HSG C
14,006	77	Woods, Good, HSG D
35,496	70	Woods, Good, HSG C
0	98	Paved parking, HSG C
56,117	72	Weighted Average
56,117		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	75	0.2000	0.39		Sheet Flow, woods Grass: Short n= 0.150 P2= 3.00"
7.3	25	0.0800	0.06		Sheet Flow, wetland Woods: Dense underbrush n= 0.800 P2= 3.00"
2.9	150	0.1200	0.87		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
0.7	325	0.0800	7.62	30.50	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
14.1	575	Total			

Summary for Subcatchment 11.35S: Area-11.35

Runoff = 0.37 cfs @ 12.05 hrs, Volume= 0.027 af, Depth= 0.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
19,566	77	Woods, Good, HSG D
3,700	70	Woods, Good, HSG C
0	98	Paved parking, HSG C
23,266	76	Weighted Average
23,266		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	370	0.1500	7.29	87.45	Trap/Vee/Rect Channel Flow, swale Bot.W=1.00' D=2.00' Z= 2.5 '/' Top.W=11.00' n= 0.080 Earth, long dense weeds
0.8	370	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.36S: Area-11.36

Runoff = 0.55 cfs @ 12.09 hrs, Volume= 0.057 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
5,035	77	Woods, Good, HSG D
52,307	70	Woods, Good, HSG C
11,888	71	Meadow, non-grazed, HSG C
69,230	71	Weighted Average
69,230		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	75	0.3100	0.21		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
1.6	255	0.2800	2.65		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.3	260	0.1500	15.88	575.72	Trap/Vee/Rect Channel Flow, swale Bot.W=7.50' D=2.50' Z= 2.8 '/' Top.W=21.50' n= 0.050 Mountain streams w/large boulders
7.8	590	Total			

Summary for Subcatchment 11.38S: Area-11.38

Runoff = 0.20 cfs @ 12.05 hrs, Volume= 0.016 af, Depth= 0.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,275	74	>75% Grass cover, Good, HSG C
8,026	77	Woods, Good, HSG D
3,949	70	Woods, Good, HSG C
0	98	Paved parking, HSG C
14,250	75	Weighted Average
14,250		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	185	0.2500	9.37	122.96	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 4.5 '/ Top.W=15.50' n= 0.070 Sluggish weedy reaches w/pools
0.3	185	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.39S: Area-11.39

Runoff = 0.19 cfs @ 12.06 hrs, Volume= 0.017 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
1,950	74	>75% Grass cover, Good, HSG C
19,400	71	Meadow, non-grazed, HSG C
21,350	71	Weighted Average
21,350		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	75	0.1800	0.26		Sheet Flow, ski trail Grass: Dense n= 0.240 P2= 3.00"
1.1	225	0.2500	3.50		Shallow Concentrated Flow, ski trail Short Grass Pasture Kv= 7.0 fps
0.5	135	0.0200	4.76	35.67	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/ Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
6.5	435	Total			

Summary for Subcatchment 11.3S: Area-11.3

Runoff = 16.51 cfs @ 12.42 hrs, Volume= 2.688 af, Depth= 0.50"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,331,661	70	Woods, Good, HSG C
31,516	74	>75% Grass cover, Good, HSG C
257,243	98	Paved parking & roofs
73,710	77	Woods, Good, HSG D
123,467	71	Meadow, non-grazed, HSG C
2,817,597	73	Weighted Average
2,560,354		90.87% Pervious Area
257,243		9.13% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	75	0.1133	0.21		Sheet Flow, Sheet flow: Meadow Grass: Dense n= 0.240 P2= 3.00"
4.7	1,038	0.2800	3.70		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
8.9	1,412	0.2800	2.65		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.8	127	0.1500	2.71		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
2.8	450	0.2800	2.65		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
3.0	395	0.0250	2.17	23.92	Trap/Vee/Rect Channel Flow, stream Bot.W=1.00' D=1.00' Z= 10.0 '/' Top.W=21.00' n= 0.070 Sluggish weedy reaches w/pools
0.8	300	0.0250	5.95	71.40	Trap/Vee/Rect Channel Flow, stream Bot.W=1.00' D=2.00' Z= 2.5 '/' Top.W=11.00' n= 0.040 Winding stream, pools & shoals
1.2	720	0.0250	9.97	996.95	Trap/Vee/Rect Channel Flow, stream Bot.W=10.00' D=5.00' Z= 2.0 '/' Top.W=30.00' n= 0.050 Mountain streams w/large boulders
0.1	45	0.0500	13.29	167.02	Pipe Channel, culvert 48.0" Round Area= 12.6 sf Perim= 12.6' r= 1.00' n= 0.025 Corrugated metal
0.1	360	0.3100	53.27	13,317.10	Trap/Vee/Rect Channel Flow, stream Bot.W=15.00' D=10.00' Z= 1.0 '/' Top.W=35.00' n= 0.050 Mountain streams w/large boulders
0.1	90	0.0500	19.28	378.54	Pipe Channel, culvert 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.020 Corrugated PE, corrugated interior
0.6	393	0.0280	10.52	1,068.46	Trap/Vee/Rect Channel Flow, Bot.W=25.00' D=4.00' Z= 0.1 '/' Top.W=25.80' n= 0.050 Mountain streams w/large boulders

29.0 5,405 Total

Summary for Subcatchment 11.40S: Area-11.40

Runoff = 2.51 cfs @ 12.04 hrs, Volume= 0.179 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
43,800	98	Paved parking, HSG C
43,800		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	10	0.0200	0.84		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
1.0	240	0.0375	3.93		Shallow Concentrated Flow, asphalt curb Paved Kv= 20.3 fps
2.0	1,940	0.0700	16.23	114.70	Pipe Channel, closed pipe system 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.020 Corrugated PE, corrugated interior
3.2	2,190	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.41S: Area-11.41

Runoff = 0.65 cfs @ 12.07 hrs, Volume= 0.063 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
51,164	71	Meadow, non-grazed, HSG C
26,216	70	Woods, Good, HSG C
77,380	71	Weighted Average
77,380		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	75	0.2500	0.19		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.7	135	0.2000	3.13		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.2	145	0.0900	10.09	75.67	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 2.0 '/ Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
7.3	355	Total			

Summary for Subcatchment 11.4S: Area-11.4

Runoff = 2.26 cfs @ 12.04 hrs, Volume= 0.161 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
39,350	98	Roofs, HSG C
0	74	>75% Grass cover, Good, HSG C
39,350	98	Weighted Average
39,350		100.00% Impervious Area

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

Summary for Subcatchment 11.5S: Area-11.5

Runoff = 1.37 cfs @ 12.12 hrs, Volume= 0.169 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
24,776	74	>75% Grass cover, Good, HSG C
172,742	70	Woods, Good, HSG C
46,276	65	Brush, Good, HSG C
243,794	69	Weighted Average
243,794		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.6	75	0.2100	0.27		Sheet Flow, Sheet flow: Woods Grass: Dense n= 0.240 P2= 3.00"
4.3	725	0.3200	2.83		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.5	150	0.0300	4.67	18.67	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
9.4	950	Total			

Summary for Subcatchment 11.6S: Area-11.6

Runoff = 0.22 cfs @ 12.06 hrs, Volume= 0.020 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 76

Area (sf)	CN	Description
6,780	74	>75% Grass cover, Good, HSG C
17,770	70	Woods, Good, HSG C
24,550	71	Weighted Average
24,550		100.00% Pervious Area

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

Summary for Subcatchment 11.7S: Area-11.7

Runoff = 0.69 cfs @ 12.06 hrs, Volume= 0.059 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
38,978	74	>75% Grass cover, Good, HSG C
27,785	70	Woods, Good, HSG C
66,763	72	Weighted Average
66,763		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	70	0.2200	0.27		Sheet Flow, Grass: Dense n= 0.240 P2= 3.00"
1.1	740	0.1200	11.65	87.37	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
5.3	810				Total, Increased to minimum Tc = 6.0 min

Summary for Subcatchment 11.8S: Area-11.8

Runoff = 1.53 cfs @ 12.18 hrs, Volume= 0.195 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
7,422	74	>75% Grass cover, Good, HSG C
131,668	70	Woods, Good, HSG C
99,149	71	Meadow, non-grazed, HSG C
238,239	71	Weighted Average
238,239		100.00% Pervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 77

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	75	0.3000	0.21		Sheet Flow, Woods / Meadow Woods: Light underbrush n= 0.400 P2= 3.00"
7.4	1,157	0.2700	2.60		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.5	135	0.0300	4.67	18.67	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
13.9	1,367	Total			

Summary for Subcatchment 11.9S: Area-11.9

Runoff = 0.79 cfs @ 12.09 hrs, Volume= 0.078 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
36,375	74	>75% Grass cover, Good, HSG C
51,495	70	Woods, Good, HSG C
87,870	72	Weighted Average
87,870		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	75	0.2700	0.20		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
1.1	90	0.0375	1.36		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.9	640	0.1200	11.65	87.37	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
8.2	805	Total			

Summary for Subcatchment 12.1S: Area-12.1

Runoff = 2.00 cfs @ 12.60 hrs, Volume= 0.420 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
14,995	77	Woods, Good, HSG D
540,880	70	Woods, Good, HSG C
555,875	70	Weighted Average
555,875		100.00% Pervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 78

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	75	0.1600	0.16		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
29.6	1,685	0.0360	0.95		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.3	235	0.1600	14.19	118.17	Trap/Vee/Rect Channel Flow, stream/wetland Bot.W=3.00' D=1.50' Z= 1.7 '/' Top.W=8.10' n= 0.040 Mountain streams
37.6	1,995	Total			

Summary for Subcatchment 12.2S: Area-12.2

Runoff = 3.32 cfs @ 12.10 hrs, Volume= 0.295 af, Depth= 0.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
35,335	98	Paved parking, HSG C
0	98	Roofs, HSG C
133,625	74	>75% Grass cover, Good, HSG C
80,725	70	Woods, Good, HSG C
249,685	76	Weighted Average
214,350		85.85% Pervious Area
35,335		14.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	75	0.2000	0.18		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
0.4	60	0.2000	2.24		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
1.3	210	0.1500	2.71		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.8	135	0.3000	2.74		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
9.5	480	Total			

Summary for Subcatchment 12.3S: Area-12.3

Runoff = 1.05 cfs @ 12.04 hrs, Volume= 0.075 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
18,250	98	Paved parking, HSG C
18,250		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0400	1.76		Sheet Flow, Sheet flow: Woods Smooth surfaces n= 0.011 P2= 3.00"
0.8	280	0.0850	5.92		Shallow Concentrated Flow, pavement Paved Kv= 20.3 fps
1.7	380	Total, Increased to minimum Tc = 6.0 min			

Summary for Reach 11.10R: Mountain stream

Inflow Area = 102.908 ac, 6.37% Impervious, Inflow Depth = 0.51" for 1-yr Local event
 Inflow = 15.05 cfs @ 12.63 hrs, Volume= 4.339 af
 Outflow = 15.00 cfs @ 12.67 hrs, Volume= 4.339 af, Atten= 0%, Lag= 2.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Max. Velocity= 4.22 fps, Min. Travel Time= 1.6 min
 Avg. Velocity = 1.86 fps, Avg. Travel Time= 3.5 min

Peak Storage= 1,398 cf @ 12.64 hrs
 Average Depth at Peak Storage= 0.14'
 Bank-Full Depth= 4.00' Flow Area= 101.6 sf, Capacity= 3,320.07 cfs

25.00' x 4.00' deep channel, n= 0.040 Mountain streams
 Side Slope Z-value= 0.1 '/' Top Width= 25.80'
 Length= 393.0' Slope= 0.1730 '/'
 Inlet Invert= 1,768.00', Outlet Invert= 1,700.00'



Summary for Reach 11.3aR: Bouldery stream

Inflow Area = 35.275 ac, 0.39% Impervious, Inflow Depth = 0.40" for 1-yr Local event
 Inflow = 5.92 cfs @ 12.48 hrs, Volume= 1.175 af
 Outflow = 5.91 cfs @ 12.50 hrs, Volume= 1.175 af, Atten= 0%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Max. Velocity= 4.04 fps, Min. Travel Time= 0.6 min
 Avg. Velocity = 2.23 fps, Avg. Travel Time= 1.1 min

Peak Storage= 208 cf @ 12.48 hrs
 Average Depth at Peak Storage= 0.10'
 Bank-Full Depth= 4.00' Flow Area= 61.6 sf, Capacity= 2,234.38 cfs

15.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 0.1 '/' Top Width= 15.80'
Length= 142.0' Slope= 0.4014 '/'
Inlet Invert= 2,390.00', Outlet Invert= 2,333.00'



Summary for Reach 11.4aR: DP11.3

Inflow Area = 58.925 ac, 2.24% Impervious, Inflow Depth = 0.43" for 1-yr Local event
Inflow = 9.96 cfs @ 12.46 hrs, Volume= 2.110 af
Outflow = 9.93 cfs @ 12.48 hrs, Volume= 2.110 af, Atten= 0%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.09 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 1.87 fps, Avg. Travel Time= 2.0 min

Peak Storage= 360 cf @ 12.47 hrs
Average Depth at Peak Storage= 0.22'
Bank-Full Depth= 2.50' Flow Area= 35.0 sf, Capacity= 858.32 cfs

7.00' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.8 '/' Top Width= 21.00'
Length= 220.0' Slope= 0.3636 '/'
Inlet Invert= 2,292.00', Outlet Invert= 2,212.00'



Summary for Reach 11.4bR: DP11.4

Inflow Area = 14.025 ac, 28.21% Impervious, Inflow Depth = 0.88" for 1-yr Local event
Inflow = 0.60 cfs @ 12.06 hrs, Volume= 1.027 af
Outflow = 0.58 cfs @ 12.07 hrs, Volume= 1.027 af, Atten= 3%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.91 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 1.97 fps, Avg. Travel Time= 1.2 min

Peak Storage= 22 cf @ 12.06 hrs
Average Depth at Peak Storage= 0.12'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 231.18 cfs

1.00' x 2.00' deep channel, n= 0.040 Winding stream, pools & shoals
Side Slope Z-value= 2.5 '/' Top Width= 11.00'
Length= 145.0' Slope= 0.2621 '/'
Inlet Invert= 2,250.00', Outlet Invert= 2,212.00'



Summary for Reach 11.4R: DP-11.2

Inflow Area = 57.335 ac, 2.30% Impervious, Inflow Depth = 0.43" for 1-yr Local event
Inflow = 9.76 cfs @ 12.44 hrs, Volume= 2.053 af
Outflow = 9.73 cfs @ 12.46 hrs, Volume= 2.053 af, Atten= 0%, Lag= 1.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.46 fps, Min. Travel Time= 1.0 min
Avg. Velocity = 1.26 fps, Avg. Travel Time= 3.5 min

Peak Storage= 584 cf @ 12.44 hrs
Average Depth at Peak Storage= 0.27'
Bank-Full Depth= 2.50' Flow Area= 36.3 sf, Capacity= 575.36 cfs

7.50' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.8 '/' Top Width= 21.50'
Length= 267.0' Slope= 0.1498 '/'
Inlet Invert= 2,332.00', Outlet Invert= 2,292.00'



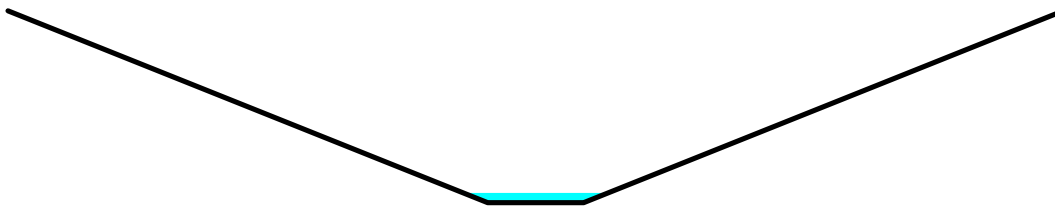
Summary for Reach 11.5aR: DP11.5

Inflow Area = 1.653 ac, 17.26% Impervious, Inflow Depth = 0.73" for 1-yr Local event
Inflow = 0.45 cfs @ 12.18 hrs, Volume= 0.100 af
Outflow = 0.43 cfs @ 12.27 hrs, Volume= 0.100 af, Atten= 3%, Lag= 5.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.38 fps, Min. Travel Time= 3.1 min
Avg. Velocity = 1.66 fps, Avg. Travel Time= 6.2 min

Peak Storage= 79 cf @ 12.22 hrs
Average Depth at Peak Storage= 0.10'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 217.63 cfs

1.00' x 2.00' deep channel, n= 0.040 Winding stream, pools & shoals
Side Slope Z-value= 2.5 '/' Top Width= 11.00'
Length= 620.0' Slope= 0.2323 '/'
Inlet Invert= 2,254.00', Outlet Invert= 2,110.00'



Summary for Reach 11.5R: Mountain stream

Inflow Area = 72.950 ac, 7.23% Impervious, Inflow Depth = 0.52" for 1-yr Local event
Inflow = 10.35 cfs @ 12.48 hrs, Volume= 3.137 af
Outflow = 10.31 cfs @ 12.53 hrs, Volume= 3.137 af, Atten= 0%, Lag= 3.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.19 fps, Min. Travel Time= 1.8 min
Avg. Velocity = 1.95 fps, Avg. Travel Time= 3.9 min

Peak Storage= 1,123 cf @ 12.50 hrs
Average Depth at Peak Storage= 0.16'
Bank-Full Depth= 5.00' Flow Area= 92.5 sf, Capacity= 2,943.05 cfs

15.00' x 5.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 0.7 '/' Top Width= 22.00'
Length= 455.0' Slope= 0.2242 '/'
Inlet Invert= 2,212.00', Outlet Invert= 2,110.00'



Summary for Reach 11.6aR: Mountain stream

Inflow Area = 102.908 ac, 6.37% Impervious, Inflow Depth = 0.51" for 1-yr Local event
Inflow = 15.23 cfs @ 12.56 hrs, Volume= 4.339 af
Outflow = 15.17 cfs @ 12.58 hrs, Volume= 4.339 af, Atten= 0%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.65 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 2.67 fps, Avg. Travel Time= 1.5 min

Peak Storage= 561 cf @ 12.57 hrs
Average Depth at Peak Storage= 0.22'
Bank-Full Depth= 5.00' Flow Area= 100.0 sf, Capacity= 3,987.80 cfs

10.00' x 5.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.0 '/ Top Width= 30.00'
Length= 245.0' Slope= 0.4000 '/
Inlet Invert= 1,990.00', Outlet Invert= 1,892.00'



Summary for Reach 11.6R: Mountain stream

Inflow Area = 74.603 ac, 7.46% Impervious, Inflow Depth = 0.52" for 1-yr Local event
Inflow = 10.60 cfs @ 12.52 hrs, Volume= 3.237 af
Outflow = 10.56 cfs @ 12.57 hrs, Volume= 3.237 af, Atten= 0%, Lag= 2.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.00 fps, Min. Travel Time= 1.6 min
Avg. Velocity = 2.10 fps, Avg. Travel Time= 3.8 min

Peak Storage= 1,006 cf @ 12.54 hrs
Average Depth at Peak Storage= 0.20'
Bank-Full Depth= 5.00' Flow Area= 100.0 sf, Capacity= 3,155.95 cfs

10.00' x 5.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.0 '/ Top Width= 30.00'
Length= 475.0' Slope= 0.2505 '/
Inlet Invert= 2,109.00', Outlet Invert= 1,990.00'



Summary for Reach 11.8R: Mountain stream

Inflow Area = 102.908 ac, 6.37% Impervious, Inflow Depth = 0.51" for 1-yr Local event
Inflow = 15.17 cfs @ 12.58 hrs, Volume= 4.339 af
Outflow = 15.10 cfs @ 12.62 hrs, Volume= 4.339 af, Atten= 1%, Lag= 2.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Max. Velocity= 5.42 fps, Min. Travel Time= 1.1 min
Avg. Velocity = 3.57 fps, Avg. Travel Time= 1.7 min

Peak Storage= 1,005 cf @ 12.60 hrs
Average Depth at Peak Storage= 0.18'
Bank-Full Depth= 10.00' Flow Area= 250.0 sf, Capacity= 13,400.37 cfs

15.00' x 10.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/ Top Width= 35.00'
Length= 360.0' Slope= 0.3139 '/
Inlet Invert= 1,887.00', Outlet Invert= 1,774.00'



Summary for Reach DP-1: Design Point-1

Inflow Area = 72.474 ac, 5.73% Impervious, Inflow Depth = 0.49" for 1-yr Local event
Inflow = 10.16 cfs @ 12.38 hrs, Volume= 2.987 af
Outflow = 10.16 cfs @ 12.38 hrs, Volume= 2.987 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.53 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 1.55 fps, Avg. Travel Time= 0.1 min

Peak Storage= 18 cf @ 12.38 hrs
Average Depth at Peak Storage= 0.25'
Bank-Full Depth= 3.00' Flow Area= 30.0 sf, Capacity= 670.80 cfs

7.00' x 3.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.0 '/ Top Width= 13.00'
Length= 10.0' Slope= 0.1500 '/
Inlet Invert= 0.00', Outlet Invert= -1.50'



Summary for Reach DP-11: Design Point-11

Inflow Area = 168.027 ac, 7.68% Impervious, Inflow Depth = 0.51" for 1-yr Local event
Inflow = 28.62 cfs @ 12.58 hrs, Volume= 7.105 af
Outflow = 28.62 cfs @ 12.58 hrs, Volume= 7.105 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-12: Design Point-12

Inflow Area = 19.291 ac, 8.34% Impervious, Inflow Depth > 0.53" for 1-yr Local event
Inflow = 2.19 cfs @ 12.60 hrs, Volume= 0.854 af
Outflow = 2.19 cfs @ 12.60 hrs, Volume= 0.854 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.44 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 1.22 fps, Avg. Travel Time= 0.1 min

Peak Storage= 5 cf @ 12.60 hrs
Average Depth at Peak Storage= 0.15'
Bank-Full Depth= 1.50' Flow Area= 8.1 sf, Capacity= 128.70 cfs

3.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.6 '/ Top Width= 7.80'
Length= 10.0' Slope= 0.2000 '/
Inlet Invert= 0.00', Outlet Invert= -2.00'



Summary for Reach DP-1a: Design Point-1a

Inflow Area = 16.476 ac, 9.23% Impervious, Inflow Depth > 0.58" for 1-yr Local event
Inflow = 0.55 cfs @ 12.06 hrs, Volume= 0.802 af
Outflow = 0.55 cfs @ 12.06 hrs, Volume= 0.802 af, Atten= 1%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Max. Velocity= 2.05 fps, Min. Travel Time= 0.1 min
Avg. Velocity = 0.85 fps, Avg. Travel Time= 0.2 min

Peak Storage= 3 cf @ 12.06 hrs
Average Depth at Peak Storage= 0.08'
Bank-Full Depth= 1.25' Flow Area= 10.0 sf, Capacity= 97.10 cfs

3.00' x 1.25' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.0 '/' Top Width= 13.00'
Length= 10.0' Slope= 0.1000 '/'
Inlet Invert= 0.00', Outlet Invert= -1.00'



Summary for Reach DP-2: Design Point-2

Inflow Area = 31.101 ac, 14.56% Impervious, Inflow Depth = 0.67" for 1-yr Local event
Inflow = 4.47 cfs @ 12.19 hrs, Volume= 1.747 af
Outflow = 4.47 cfs @ 12.19 hrs, Volume= 1.747 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.01 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 1.44 fps, Avg. Travel Time= 0.1 min

Peak Storage= 9 cf @ 12.19 hrs
Average Depth at Peak Storage= 0.18'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 233.42 cfs

5.00' x 2.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 0.5 '/' Top Width= 7.00'
Length= 10.0' Slope= 0.2000 '/'
Inlet Invert= 0.00', Outlet Invert= -2.00'



Summary for Reach DP-2a: Design Point-2a

Inflow Area = 1.266 ac, 0.00% Impervious, Inflow Depth = 0.43" for 1-yr Local event
Inflow = 0.44 cfs @ 12.09 hrs, Volume= 0.045 af
Outflow = 0.44 cfs @ 12.09 hrs, Volume= 0.045 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-2b: Design Point-2b

Inflow Area = 4.686 ac, 0.00% Impervious, Inflow Depth = 0.43" for 1-yr Local event
Inflow = 1.60 cfs @ 12.10 hrs, Volume= 0.167 af
Outflow = 1.60 cfs @ 12.10 hrs, Volume= 0.167 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-3: Design Point-3

Inflow Area = 2.415 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 0.82 cfs @ 12.06 hrs, Volume= 0.079 af
Outflow = 0.76 cfs @ 12.08 hrs, Volume= 0.079 af, Atten= 8%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.84 fps, Min. Travel Time= 0.5 min
Avg. Velocity = 1.89 fps, Avg. Travel Time= 1.3 min

Peak Storage= 25 cf @ 12.07 hrs
Average Depth at Peak Storage= 0.11'
Bank-Full Depth= 1.50' Flow Area= 4.1 sf, Capacity= 79.12 cfs

1.50' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 0.8 '/' Top Width= 3.90'
Length= 150.0' Slope= 0.4000 '/'
Inlet Invert= 0.00', Outlet Invert= -60.00'



Summary for Reach DP-4: Design Point-4

Inflow Area = 32.799 ac, 11.24% Impervious, Inflow Depth > 0.60" for 1-yr Local event
Inflow = 2.32 cfs @ 12.13 hrs, Volume= 1.641 af
Outflow = 2.32 cfs @ 12.13 hrs, Volume= 1.641 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Max. Velocity= 3.90 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 1.87 fps, Avg. Travel Time= 0.1 min

Peak Storage= 6 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.10'
Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 768.66 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 12.00'
Length= 10.0' Slope= 0.4000 '/'
Inlet Invert= 0.00', Outlet Invert= -4.00'



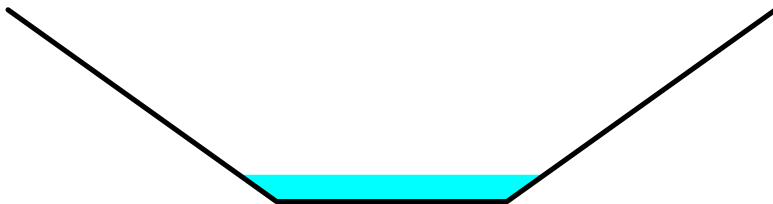
Summary for Reach DP-5: Design Point-5

Inflow Area = 25.190 ac, 1.32% Impervious, Inflow Depth = 0.44" for 1-yr Local event
Inflow = 7.23 cfs @ 12.17 hrs, Volume= 0.921 af
Outflow = 7.22 cfs @ 12.17 hrs, Volume= 0.921 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.88 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 1.84 fps, Avg. Travel Time= 0.1 min

Peak Storage= 12 cf @ 12.17 hrs
Average Depth at Peak Storage= 0.35'
Bank-Full Depth= 2.50' Flow Area= 16.3 sf, Capacity= 273.11 cfs

3.00' x 2.50' deep channel, n= 0.035 Earth, dense weeds
Side Slope Z-value= 1.4 '/' Top Width= 10.00'
Length= 10.0' Slope= 0.1000 '/'
Inlet Invert= 1,736.00', Outlet Invert= 1,735.00'



Summary for Reach DP-6: Design Point 6

Inflow Area = 2.077 ac, 21.55% Impervious, Inflow Depth = 0.65" for 1-yr Local event
Inflow = 0.23 cfs @ 12.12 hrs, Volume= 0.112 af
Outflow = 0.23 cfs @ 12.12 hrs, Volume= 0.112 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-7: Design Point-7

Inflow Area = 2.426 ac, 0.00% Impervious, Inflow Depth = 0.25" for 1-yr Local event
Inflow = 0.28 cfs @ 12.12 hrs, Volume= 0.051 af
Outflow = 0.28 cfs @ 12.12 hrs, Volume= 0.051 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-8: Design Point-8

Inflow Area = 53.384 ac, 14.83% Impervious, Inflow Depth > 0.56" for 1-yr Local event
Inflow = 3.56 cfs @ 12.60 hrs, Volume= 2.498 af
Outflow = 3.56 cfs @ 12.60 hrs, Volume= 2.498 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.18 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 1.34 fps, Avg. Travel Time= 0.1 min

Peak Storage= 9 cf @ 12.60 hrs
Average Depth at Peak Storage= 0.25'
Bank-Full Depth= 2.50' Flow Area= 18.8 sf, Capacity= 277.01 cfs

3.00' x 2.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.8 '/' Top Width= 12.00'
Length= 10.0' Slope= 0.1000 '/'
Inlet Invert= 0.00', Outlet Invert= -1.00'



Summary for Reach DP-9: Design Point-9

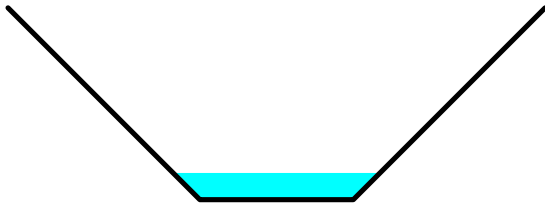
Inflow Area = 29.876 ac, 15.42% Impervious, Inflow Depth = 0.64" for 1-yr Local event
Inflow = 4.07 cfs @ 12.17 hrs, Volume= 1.589 af
Outflow = 3.94 cfs @ 12.19 hrs, Volume= 1.590 af, Atten= 3%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Max. Velocity= 4.91 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 1.31 fps, Avg. Travel Time= 1.3 min

Peak Storage= 81 cf @ 12.17 hrs
Average Depth at Peak Storage= 0.35'
Bank-Full Depth= 2.50' Flow Area= 11.3 sf, Capacity= 152.56 cfs

2.00' x 2.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 100.0' Slope= 0.1000 '/'
Inlet Invert= 1,655.00', Outlet Invert= 1,645.00'



Summary for Reach R1.1: Mountain Stream

Inflow Area = 35.690 ac, 0.77% Impervious, Inflow Depth = 0.41" for 1-yr Local event
Inflow = 8.01 cfs @ 12.24 hrs, Volume= 1.214 af
Outflow = 7.77 cfs @ 12.34 hrs, Volume= 1.214 af, Atten= 3%, Lag= 5.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.11 fps, Min. Travel Time= 3.3 min
Avg. Velocity = 1.82 fps, Avg. Travel Time= 7.4 min

Peak Storage= 1,524 cf @ 12.28 hrs
Average Depth at Peak Storage= 0.17'
Bank-Full Depth= 4.50' Flow Area= 69.8 sf, Capacity= 1,947.63 cfs

11.00' x 4.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.0 '/' Top Width= 20.00'
Length= 805.0' Slope= 0.1342 '/'
Inlet Invert= 2,308.00', Outlet Invert= 2,200.00'



Summary for Reach R1.12: WETLAND

Inflow Area = 15.782 ac, 9.63% Impervious, Inflow Depth > 0.58" for 1-yr Local event
Inflow = 0.36 cfs @ 20.50 hrs, Volume= 0.769 af
Outflow = 0.36 cfs @ 20.55 hrs, Volume= 0.769 af, Atten= 0%, Lag= 3.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 1.65 fps, Min. Travel Time= 2.0 min
Avg. Velocity = 1.07 fps, Avg. Travel Time= 3.1 min

Peak Storage= 44 cf @ 20.52 hrs
Average Depth at Peak Storage= 0.01'
Bank-Full Depth= 0.50' Flow Area= 10.3 sf, Capacity= 206.27 cfs

20.00' x 0.50' deep channel, n= 0.035 Earth, dense weeds
Side Slope Z-value= 1.0 '/' Top Width= 21.00'
Length= 200.0' Slope= 0.6000 '/'
Inlet Invert= 2,256.00', Outlet Invert= 2,136.00'



Summary for Reach R1.2: Mountain Stream

Inflow Area = 38.694 ac, 1.10% Impervious, Inflow Depth = 0.41" for 1-yr Local event
Inflow = 8.35 cfs @ 12.33 hrs, Volume= 1.335 af
Outflow = 8.24 cfs @ 12.39 hrs, Volume= 1.335 af, Atten= 1%, Lag= 3.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.57 fps, Min. Travel Time= 1.8 min
Avg. Velocity = 1.91 fps, Avg. Travel Time= 5.4 min

Peak Storage= 921 cf @ 12.36 hrs
Average Depth at Peak Storage= 0.27'
Bank-Full Depth= 3.00' Flow Area= 30.3 sf, Capacity= 636.66 cfs

5.00' x 3.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.7 '/' Top Width= 15.20'
Length= 616.0' Slope= 0.1461 '/'
Inlet Invert= 2,200.00', Outlet Invert= 2,110.00'



Summary for Reach R1.8: WETLAND

Inflow Area = 3.337 ac, 12.31% Impervious, Inflow Depth = 0.69" for 1-yr Local event
Inflow = 1.54 cfs @ 12.06 hrs, Volume= 0.191 af
Outflow = 1.41 cfs @ 12.10 hrs, Volume= 0.191 af, Atten= 8%, Lag= 2.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 1.54 fps, Min. Travel Time= 1.3 min
Avg. Velocity = 0.47 fps, Avg. Travel Time= 4.3 min

Peak Storage= 116 cf @ 12.07 hrs
Average Depth at Peak Storage= 0.05'
Bank-Full Depth= 0.50' Flow Area= 10.3 sf, Capacity= 73.93 cfs

20.00' x 0.50' deep channel, n= 0.070 Sluggish weedy reaches w/pools
Side Slope Z-value= 1.0 '/' Top Width= 21.00'
Length= 120.0' Slope= 0.3083 '/'
Inlet Invert= 2,205.00', Outlet Invert= 2,168.00'



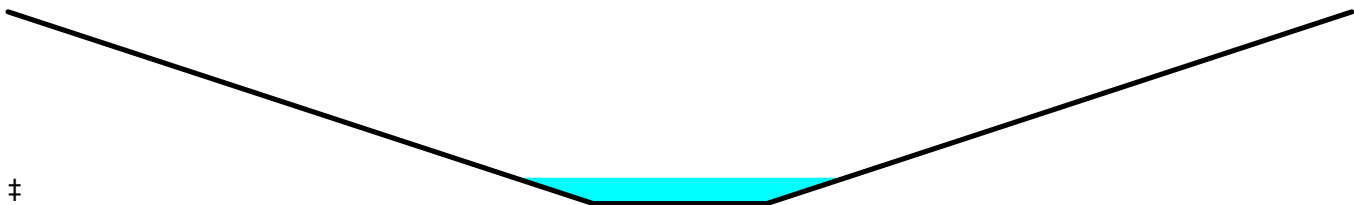
Summary for Reach R11.1: DP11.6

Inflow Area = 5.543 ac, 8.39% Impervious, Inflow Depth = 0.56" for 1-yr Local event
Inflow = 1.52 cfs @ 12.17 hrs, Volume= 0.259 af
Outflow = 1.46 cfs @ 12.23 hrs, Volume= 0.259 af, Atten= 4%, Lag= 4.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.53 fps, Min. Travel Time= 2.0 min
Avg. Velocity = 0.96 fps, Avg. Travel Time= 5.4 min

Peak Storage= 182 cf @ 12.20 hrs
Average Depth at Peak Storage= 0.20'
Bank-Full Depth= 1.50' Flow Area= 13.1 sf, Capacity= 102.63 cfs

2.00' x 1.50' deep channel, n= 0.070 Sluggish weedy reaches w/pools
Side Slope Z-value= 4.5 '/' Top Width= 15.50'
Length= 310.0' Slope= 0.1742 '/'
Inlet Invert= 2,224.00', Outlet Invert= 2,170.00'



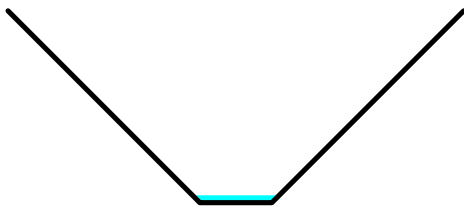
Summary for Reach R11.12: Mountain stream

Inflow Area = 4.895 ac, 2.81% Impervious, Inflow Depth = 0.44" for 1-yr Local event
Inflow = 1.41 cfs @ 12.11 hrs, Volume= 0.181 af
Outflow = 1.39 cfs @ 12.12 hrs, Volume= 0.181 af, Atten= 2%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.57 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 2.48 fps, Avg. Travel Time= 1.3 min

Peak Storage= 51 cf @ 12.11 hrs
Average Depth at Peak Storage= 0.15'
Bank-Full Depth= 4.00' Flow Area= 22.0 sf, Capacity= 678.27 cfs

1.50' x 4.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.0 '/' Top Width= 9.50'
Length= 200.0' Slope= 0.3350 '/'
Inlet Invert= 2,468.00', Outlet Invert= 2,401.00'



Summary for Reach R11.13: Mountain stream

Inflow Area = 29.816 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 5.24 cfs @ 12.46 hrs, Volume= 0.981 af
Outflow = 5.21 cfs @ 12.49 hrs, Volume= 0.981 af, Atten= 1%, Lag= 1.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.50 fps, Min. Travel Time= 1.0 min
Avg. Velocity = 2.88 fps, Avg. Travel Time= 1.3 min

Peak Storage= 329 cf @ 12.47 hrs
Average Depth at Peak Storage= 0.12'
Bank-Full Depth= 10.00' Flow Area= 130.0 sf, Capacity= 4,439.64 cfs

12.00' x 10.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 0.1 '/' Top Width= 14.00'
Length= 220.0' Slope= 0.2045 '/'
Inlet Invert= 2,446.00', Outlet Invert= 2,401.00'



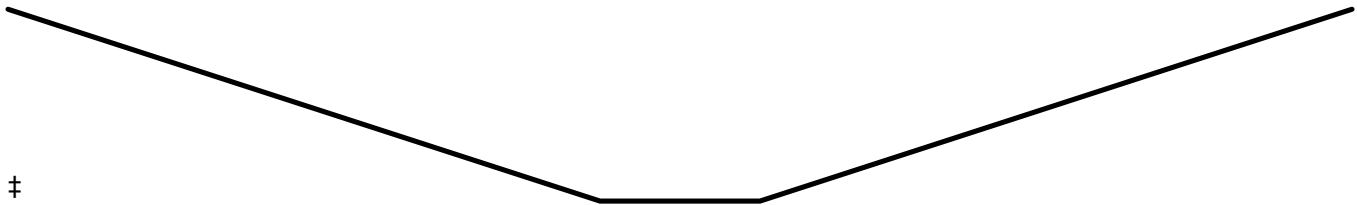
Summary for Reach R11.14: Mountain stream

Inflow Area = 0.649 ac, 0.00% Impervious, Inflow Depth = 0.36" for 1-yr Local event
Inflow = 0.19 cfs @ 12.06 hrs, Volume= 0.020 af
Outflow = 0.17 cfs @ 12.12 hrs, Volume= 0.020 af, Atten= 8%, Lag= 3.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 1.76 fps, Min. Travel Time= 1.3 min
Avg. Velocity = 1.59 fps, Avg. Travel Time= 1.5 min

Peak Storage= 15 cf @ 12.10 hrs
Average Depth at Peak Storage= 0.03'
Bank-Full Depth= 3.00' Flow Area= 42.3 sf, Capacity= 989.43 cfs

3.00' x 3.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 3.7 '/ Top Width= 25.20'
Length= 140.0' Slope= 0.2071 '/
Inlet Invert= 2,464.00', Outlet Invert= 2,435.00'



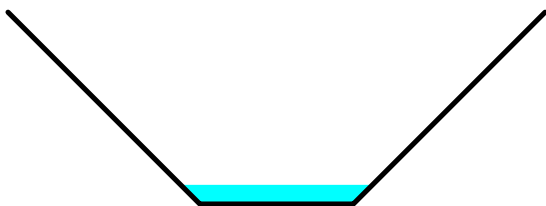
Summary for Reach R11.16: SWALE

Inflow Area = 11.496 ac, 0.90% Impervious, Inflow Depth = 0.41" for 1-yr Local event
Inflow = 2.48 cfs @ 12.27 hrs, Volume= 0.393 af
Outflow = 2.44 cfs @ 12.32 hrs, Volume= 0.393 af, Atten= 1%, Lag= 3.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.35 fps, Min. Travel Time= 1.7 min
Avg. Velocity = 1.56 fps, Avg. Travel Time= 4.8 min

Peak Storage= 254 cf @ 12.29 hrs
Average Depth at Peak Storage= 0.25'
Bank-Full Depth= 2.50' Flow Area= 11.3 sf, Capacity= 160.81 cfs

2.00' x 2.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/ Top Width= 7.00'
Length= 450.0' Slope= 0.1111 '/
Inlet Invert= 2,450.00', Outlet Invert= 2,400.00'



Summary for Reach R11.1A: DP11.7

Inflow Area = 28.305 ac, 3.51% Impervious, Inflow Depth = 0.47" for 1-yr Local event
Inflow = 4.73 cfs @ 12.45 hrs, Volume= 1.103 af
Outflow = 4.68 cfs @ 12.55 hrs, Volume= 1.103 af, Atten= 1%, Lag= 5.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.39 fps, Min. Travel Time= 2.9 min
Avg. Velocity = 1.35 fps, Avg. Travel Time= 11.7 min

Peak Storage= 825 cf @ 12.50 hrs
Average Depth at Peak Storage= 0.27'
Bank-Full Depth= 1.50' Flow Area= 13.1 sf, Capacity= 186.80 cfs

2.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.5 '/ Top Width= 15.50'
Length= 950.0' Slope= 0.1884 '/
Inlet Invert= 2,169.00', Outlet Invert= 1,990.00'



Summary for Reach R11.1B: Mountain stream

Inflow Area = 4.561 ac, 1.76% Impervious, Inflow Depth = 0.46" for 1-yr Local event
Inflow = 1.37 cfs @ 12.15 hrs, Volume= 0.174 af
Outflow = 1.35 cfs @ 12.17 hrs, Volume= 0.174 af, Atten= 1%, Lag= 1.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.12 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 1.49 fps, Avg. Travel Time= 2.2 min

Peak Storage= 67 cf @ 12.16 hrs
Average Depth at Peak Storage= 0.13'
Bank-Full Depth= 1.50' Flow Area= 13.1 sf, Capacity= 215.17 cfs

2.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.5 '/ Top Width= 15.50'
Length= 200.0' Slope= 0.2500 '/
Inlet Invert= 2,276.00', Outlet Invert= 2,226.00'



Summary for Reach R11.25: SWALE

Inflow Area = 15.057 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 3.00 cfs @ 12.20 hrs, Volume= 0.488 af
Outflow = 2.97 cfs @ 12.26 hrs, Volume= 0.488 af, Atten= 1%, Lag= 3.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.44 fps, Min. Travel Time= 1.7 min
Avg. Velocity = 1.60 fps, Avg. Travel Time= 3.7 min

Peak Storage= 305 cf @ 12.22 hrs
Average Depth at Peak Storage= 0.33'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 110.44 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 350.0' Slope= 0.0543 '/
Inlet Invert= 2,330.00', Outlet Invert= 2,311.00'



Summary for Reach R11.27: Overland

Inflow Area = 16.103 ac, 0.00% Impervious, Inflow Depth = 0.40" for 1-yr Local event
Inflow = 3.32 cfs @ 12.25 hrs, Volume= 0.534 af
Outflow = 2.97 cfs @ 12.50 hrs, Volume= 0.534 af, Atten= 11%, Lag= 15.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 1.47 fps, Min. Travel Time= 7.3 min
Avg. Velocity = 0.68 fps, Avg. Travel Time= 15.8 min

Peak Storage= 1,301 cf @ 12.37 hrs
Average Depth at Peak Storage= 0.02'
Bank-Full Depth= 0.50' Flow Area= 50.3 sf, Capacity= 620.34 cfs

100.00' x 0.50' deep channel, n= 0.035 Earth, dense weeds
Side Slope Z-value= 1.0 '/ Top Width= 101.00'
Length= 640.0' Slope= 0.2156 '/
Inlet Invert= 2,308.00', Outlet Invert= 2,170.00'



Summary for Reach R11.30: SWALE

Inflow Area = 2.196 ac, 13.15% Impervious, Inflow Depth = 0.59" for 1-yr Local event
Inflow = 0.07 cfs @ 13.65 hrs, Volume= 0.108 af
Outflow = 0.07 cfs @ 13.93 hrs, Volume= 0.108 af, Atten= 0%, Lag= 16.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.54 fps, Min. Travel Time= 10.0 min
Avg. Velocity = 0.30 fps, Avg. Travel Time= 18.1 min

Peak Storage= 44 cf @ 13.76 hrs
Average Depth at Peak Storage= 0.06'
Bank-Full Depth= 1.50' Flow Area= 7.5 sf, Capacity= 24.23 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 8.00'
Length= 325.0' Slope= 0.0092 '/
Inlet Invert= 2,183.00', Outlet Invert= 2,180.00'



Summary for Reach R11.31: SWALE

Inflow Area = 1.136 ac, 14.06% Impervious, Inflow Depth = 0.58" for 1-yr Local event
Inflow = 0.04 cfs @ 15.82 hrs, Volume= 0.055 af
Outflow = 0.04 cfs @ 15.93 hrs, Volume= 0.055 af, Atten= 0%, Lag= 6.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.67 fps, Min. Travel Time= 3.5 min
Avg. Velocity = 0.46 fps, Avg. Travel Time= 5.0 min

Peak Storage= 8 cf @ 15.87 hrs
Average Depth at Peak Storage= 0.03'
Bank-Full Depth= 1.50' Flow Area= 7.5 sf, Capacity= 49.99 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 8.00'
Length= 140.0' Slope= 0.0393 '/
Inlet Invert= 2,189.50', Outlet Invert= 2,184.00'



Summary for Reach R11.33: Bouldery stream

Inflow Area = 13.664 ac, 8.65% Impervious, Inflow Depth = 0.53" for 1-yr Local event
Inflow = 2.67 cfs @ 12.32 hrs, Volume= 0.602 af
Outflow = 2.64 cfs @ 12.35 hrs, Volume= 0.602 af, Atten= 1%, Lag= 2.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.85 fps, Min. Travel Time= 1.1 min
Avg. Velocity = 1.24 fps, Avg. Travel Time= 2.6 min

Peak Storage= 177 cf @ 12.33 hrs
Average Depth at Peak Storage= 0.12'
Bank-Full Depth= 2.50' Flow Area= 26.9 sf, Capacity= 454.15 cfs

7.50' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.3 '/ Top Width= 14.00'
Length= 190.0' Slope= 0.1579 '/
Inlet Invert= 2,420.00', Outlet Invert= 2,390.00'



Summary for Reach R11.37: SWALE

Inflow Area = 13.040 ac, 0.00% Impervious, Inflow Depth = 0.38" for 1-yr Local event
Inflow = 2.48 cfs @ 12.15 hrs, Volume= 0.410 af
Outflow = 2.47 cfs @ 12.22 hrs, Volume= 0.410 af, Atten= 1%, Lag= 4.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.20 fps, Min. Travel Time= 2.4 min
Avg. Velocity = 1.91 fps, Avg. Travel Time= 5.2 min

Peak Storage= 351 cf @ 12.18 hrs
Average Depth at Peak Storage= 0.26'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 96.77 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/ Top Width= 6.00'
Length= 600.0' Slope= 0.1000 '/
Inlet Invert= 2,405.00', Outlet Invert= 2,345.00'



Summary for Reach R11.38: Wetland

Inflow Area = 2.196 ac, 13.15% Impervious, Inflow Depth = 0.59" for 1-yr Local event
Inflow = 0.07 cfs @ 13.93 hrs, Volume= 0.108 af
Outflow = 0.07 cfs @ 15.71 hrs, Volume= 0.108 af, Atten= 0%, Lag= 106.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.14 fps, Min. Travel Time= 35.8 min
Avg. Velocity = 0.07 fps, Avg. Travel Time= 68.1 min

Peak Storage= 157 cf @ 15.11 hrs
Average Depth at Peak Storage= 0.02'
Bank-Full Depth= 0.50' Flow Area= 12.8 sf, Capacity= 14.90 cfs

25.00' x 0.50' deep channel, n= 0.100 Very weedy reaches w/pools
Side Slope Z-value= 1.0 '/' Top Width= 26.00'
Length= 306.0' Slope= 0.0163 '/'
Inlet Invert= 2,180.00', Outlet Invert= 2,175.00'



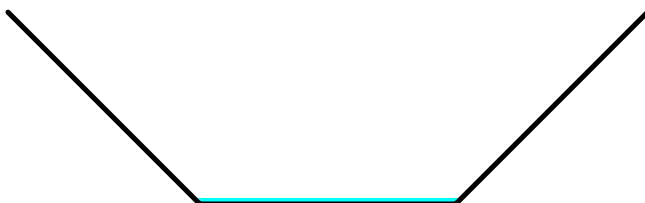
Summary for Reach R11.39: SWALE

Inflow Area = 1.520 ac, 70.97% Impervious, Inflow Depth = 1.49" for 1-yr Local event
Inflow = 0.13 cfs @ 14.18 hrs, Volume= 0.189 af
Outflow = 0.13 cfs @ 14.28 hrs, Volume= 0.189 af, Atten= 0%, Lag= 6.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 1.36 fps, Min. Travel Time= 3.8 min
Avg. Velocity = 1.19 fps, Avg. Travel Time= 4.3 min

Peak Storage= 30 cf @ 14.22 hrs
Average Depth at Peak Storage= 0.05'
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 49.35 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/' Top Width= 5.00'
Length= 310.0' Slope= 0.0806 '/'
Inlet Invert= 2,446.00', Outlet Invert= 2,421.00'



Summary for Reach R11.40: SWALE

Inflow Area = 0.903 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 2.26 cfs @ 12.04 hrs, Volume= 0.161 af
Outflow = 2.13 cfs @ 12.06 hrs, Volume= 0.161 af, Atten= 5%, Lag= 1.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.77 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 1.57 fps, Avg. Travel Time= 3.3 min

Peak Storage= 122 cf @ 12.05 hrs
Average Depth at Peak Storage= 0.17'
Bank-Full Depth= 1.50' Flow Area= 7.5 sf, Capacity= 143.25 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 8.00'
Length= 310.0' Slope= 0.3226 '/
Inlet Invert= 2,430.00', Outlet Invert= 2,330.00'



Summary for Reach R2.7: SWALE

Inflow Area = 3.627 ac, 13.61% Impervious, Inflow Depth = 0.65" for 1-yr Local event
Inflow = 1.22 cfs @ 12.06 hrs, Volume= 0.196 af
Outflow = 0.92 cfs @ 12.25 hrs, Volume= 0.196 af, Atten= 25%, Lag= 11.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 1.93 fps, Min. Travel Time= 6.1 min
Avg. Velocity = 0.76 fps, Avg. Travel Time= 15.5 min

Peak Storage= 337 cf @ 12.14 hrs
Average Depth at Peak Storage= 0.20'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 81.81 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 705.0' Slope= 0.0298 '/
Inlet Invert= 2,213.00', Outlet Invert= 2,192.00'



Summary for Reach R3.1: SWALE

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 1.50' Flow Area= 7.5 sf, Capacity= 123.06 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 8.00'
Length= 420.0' Slope= 0.2381 '/
Inlet Invert= 2,179.99', Outlet Invert= 2,080.00'



Summary for Reach R4.2: SWALE

Inflow Area = 15.597 ac, 8.50% Impervious, Inflow Depth = 0.54" for 1-yr Local event
Inflow = 4.63 cfs @ 12.14 hrs, Volume= 0.706 af
Outflow = 4.53 cfs @ 12.18 hrs, Volume= 0.706 af, Atten= 2%, Lag= 2.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.47 fps, Min. Travel Time= 1.3 min
Avg. Velocity = 1.45 fps, Avg. Travel Time= 4.0 min

Peak Storage= 360 cf @ 12.16 hrs
Average Depth at Peak Storage= 0.16'
Bank-Full Depth= 1.50' Flow Area= 13.5 sf, Capacity= 219.76 cfs

6.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 12.00'
Length= 350.0' Slope= 0.1771 '/
Inlet Invert= 2,280.00', Outlet Invert= 2,218.00'



‡

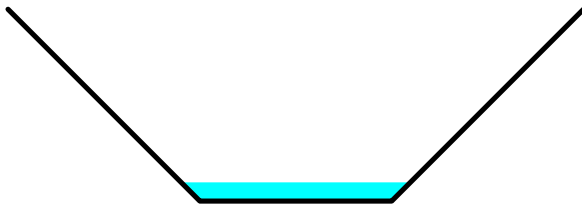
Summary for Reach R4.5: swale

Inflow Area = 30.234 ac, 12.20% Impervious, Inflow Depth > 0.61" for 1-yr Local event
Inflow = 1.74 cfs @ 12.06 hrs, Volume= 1.549 af
Outflow = 1.56 cfs @ 12.14 hrs, Volume= 1.549 af, Atten= 10%, Lag= 5.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.71 fps, Min. Travel Time= 2.5 min
Avg. Velocity = 1.33 fps, Avg. Travel Time= 7.0 min

Peak Storage= 240 cf @ 12.10 hrs
Average Depth at Peak Storage= 0.20'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 100.17 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/' Top Width= 6.00'
Length= 560.0' Slope= 0.1071 '/'
Inlet Invert= 2,065.00', Outlet Invert= 2,005.00'



Summary for Reach R4.7: swale

Inflow Area = 32.763 ac, 11.26% Impervious, Inflow Depth > 0.60" for 1-yr Local event
Inflow = 2.35 cfs @ 12.12 hrs, Volume= 1.640 af
Outflow = 2.31 cfs @ 12.13 hrs, Volume= 1.640 af, Atten= 2%, Lag= 0.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.62 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 2.38 fps, Avg. Travel Time= 0.4 min

Peak Storage= 21 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.15'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 329.55 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/' Top Width= 10.00'
Length= 60.0' Slope= 0.4833 '/'
Inlet Invert= 2,001.00', Outlet Invert= 1,972.00'



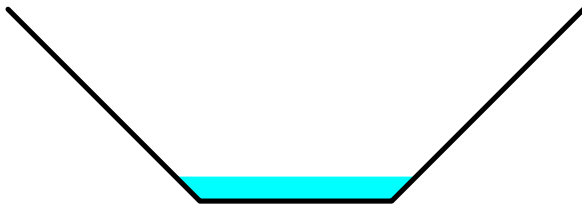
Summary for Reach R5.2: SWALE

Inflow Area = 8.776 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 2.66 cfs @ 12.09 hrs, Volume= 0.289 af
Outflow = 2.55 cfs @ 12.17 hrs, Volume= 0.289 af, Atten= 4%, Lag= 4.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.49 fps, Min. Travel Time= 2.4 min
Avg. Velocity = 1.81 fps, Avg. Travel Time= 5.9 min

Peak Storage= 368 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.25'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 105.45 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/' Top Width= 6.00'
Length= 640.0' Slope= 0.1187 '/'
Inlet Invert= 1,822.00', Outlet Invert= 1,746.00'



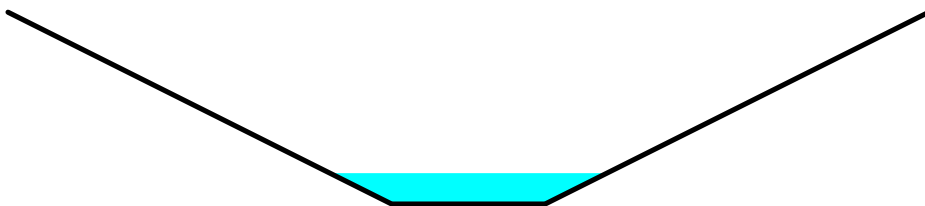
Summary for Reach R5.3: SWALE

Inflow Area = 12.491 ac, 2.66% Impervious, Inflow Depth = 0.45" for 1-yr Local event
Inflow = 3.61 cfs @ 12.16 hrs, Volume= 0.469 af
Outflow = 3.47 cfs @ 12.19 hrs, Volume= 0.469 af, Atten= 4%, Lag= 2.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.18 fps, Min. Travel Time= 1.0 min
Avg. Velocity = 1.05 fps, Avg. Travel Time= 3.0 min

Peak Storage= 211 cf @ 12.17 hrs
Average Depth at Peak Storage= 0.40'
Bank-Full Depth= 2.50' Flow Area= 17.5 sf, Capacity= 151.95 cfs

2.00' x 2.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/' Top Width= 12.00'
Length= 187.0' Slope= 0.0374 '/'
Inlet Invert= 1,745.00', Outlet Invert= 1,738.00'



Summary for Reach R8.16: SWALE

Inflow = 5.41 cfs @ 12.07 hrs, Volume= 0.649 af
Outflow = 5.18 cfs @ 12.11 hrs, Volume= 0.649 af, Atten= 4%, Lag= 2.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.64 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 1.38 fps, Avg. Travel Time= 3.8 min

Peak Storage= 292 cf @ 12.08 hrs
Average Depth at Peak Storage= 0.21'
Bank-Full Depth= 1.50' Flow Area= 10.5 sf, Capacity= 178.88 cfs

4.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 315.0' Slope= 0.2159 '/
Inlet Invert= 1,810.00', Outlet Invert= 1,742.00'



Summary for Reach R8.17: SWALE

Inflow Area = 1.145 ac, 16.92% Impervious, Inflow Depth = 7.46" for 1-yr Local event
Inflow = 5.19 cfs @ 12.11 hrs, Volume= 0.712 af
Outflow = 5.02 cfs @ 12.13 hrs, Volume= 0.712 af, Atten= 3%, Lag= 1.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.59 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 1.39 fps, Avg. Travel Time= 3.4 min

Peak Storage= 261 cf @ 12.11 hrs
Average Depth at Peak Storage= 0.21'
Bank-Full Depth= 1.50' Flow Area= 10.5 sf, Capacity= 176.73 cfs

4.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 280.0' Slope= 0.2107 '/
Inlet Invert= 1,741.00', Outlet Invert= 1,682.00'



Summary for Reach R8.18: Mountain stream

Inflow Area = 15.337 ac, 1.95% Impervious, Inflow Depth = 0.43" for 1-yr Local event
Inflow = 2.60 cfs @ 12.49 hrs, Volume= 0.548 af
Outflow = 2.53 cfs @ 12.64 hrs, Volume= 0.548 af, Atten= 3%, Lag= 9.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.92 fps, Min. Travel Time= 5.0 min
Avg. Velocity = 1.02 fps, Avg. Travel Time= 14.3 min

Peak Storage= 759 cf @ 12.55 hrs
Average Depth at Peak Storage= 0.28'
Bank-Full Depth= 2.00' Flow Area= 13.0 sf, Capacity= 109.52 cfs

2.50' x 2.00' deep channel, n= 0.080 Earth, long dense weeds
Side Slope Z-value= 2.0 '/' Top Width= 10.50'
Length= 870.0' Slope= 0.1736 '/'
Inlet Invert= 1,818.00', Outlet Invert= 1,667.00'



Summary for Reach R8.2: SWALE

Inflow Area = 2.715 ac, 28.55% Impervious, Inflow Depth = 0.75" for 1-yr Local event
Inflow = 1.10 cfs @ 12.31 hrs, Volume= 0.170 af
Outflow = 1.05 cfs @ 12.39 hrs, Volume= 0.170 af, Atten= 4%, Lag= 4.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.82 fps, Min. Travel Time= 2.4 min
Avg. Velocity = 0.80 fps, Avg. Travel Time= 8.4 min

Peak Storage= 154 cf @ 12.35 hrs
Average Depth at Peak Storage= 0.17'
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 46.39 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/' Top Width= 5.00'
Length= 407.0' Slope= 0.0713 '/'
Inlet Invert= 2,303.00', Outlet Invert= 2,274.00'



Summary for Reach R8.21: SWALE

Inflow Area = 24.114 ac, 25.39% Impervious, Inflow Depth = 0.44" for 1-yr Local event
Inflow = 7.06 cfs @ 12.07 hrs, Volume= 0.886 af
Outflow = 6.74 cfs @ 12.12 hrs, Volume= 0.886 af, Atten= 5%, Lag= 2.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.74 fps, Min. Travel Time= 1.3 min
Avg. Velocity = 1.63 fps, Avg. Travel Time= 5.3 min

Peak Storage= 526 cf @ 12.09 hrs
Average Depth at Peak Storage= 0.23'
Bank-Full Depth= 1.50' Flow Area= 10.5 sf, Capacity= 203.30 cfs

4.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 520.0' Slope= 0.2788 '/
Inlet Invert= 1,815.00', Outlet Invert= 1,670.00'



Summary for Reach R8.4: SWALE

Inflow Area = 6.715 ac, 30.90% Impervious, Inflow Depth = 0.78" for 1-yr Local event
Inflow = 3.35 cfs @ 12.08 hrs, Volume= 0.437 af
Outflow = 3.19 cfs @ 12.15 hrs, Volume= 0.437 af, Atten= 5%, Lag= 4.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.43 fps, Min. Travel Time= 2.0 min
Avg. Velocity = 1.07 fps, Avg. Travel Time= 8.2 min

Peak Storage= 392 cf @ 12.11 hrs
Average Depth at Peak Storage= 0.32'
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 51.44 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/ Top Width= 5.00'
Length= 525.0' Slope= 0.0876 '/
Inlet Invert= 2,270.00', Outlet Invert= 2,224.00'



Summary for Reach R8.6: SWALE

Inflow Area = 8.502 ac, 27.24% Impervious, Inflow Depth = 0.76" for 1-yr Local event
Inflow = 3.64 cfs @ 12.14 hrs, Volume= 0.535 af
Outflow = 3.53 cfs @ 12.17 hrs, Volume= 0.535 af, Atten= 3%, Lag= 1.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.02 fps, Min. Travel Time= 1.1 min
Avg. Velocity = 1.17 fps, Avg. Travel Time= 4.9 min

Peak Storage= 249 cf @ 12.15 hrs
Average Depth at Peak Storage= 0.31'
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 59.17 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/' Top Width= 5.00'
Length= 345.0' Slope= 0.1159 '/'
Inlet Invert= 2,220.00', Outlet Invert= 2,180.00'



Summary for Reach R9.10: Swale

Inflow Area = 12.954 ac, 25.61% Impervious, Inflow Depth > 0.84" for 1-yr Local event
Inflow = 0.37 cfs @ 21.47 hrs, Volume= 0.906 af
Outflow = 0.37 cfs @ 21.51 hrs, Volume= 0.906 af, Atten= 0%, Lag= 2.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Max. Velocity= 1.97 fps, Min. Travel Time= 1.4 min
Avg. Velocity = 1.03 fps, Avg. Travel Time= 2.7 min

Peak Storage= 32 cf @ 21.48 hrs
Average Depth at Peak Storage= 0.09'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 136.03 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/' Top Width= 10.00'
Length= 170.0' Slope= 0.0824 '/'
Inlet Invert= 1,672.00', Outlet Invert= 1,658.00'



Summary for Reach R9.2: Swale

Inflow Area = 5.546 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 1.65 cfs @ 12.10 hrs, Volume= 0.182 af
Outflow = 1.30 cfs @ 12.30 hrs, Volume= 0.182 af, Atten= 21%, Lag= 12.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.27 fps, Min. Travel Time= 6.4 min
Avg. Velocity = 1.34 fps, Avg. Travel Time= 15.6 min

Peak Storage= 501 cf @ 12.20 hrs
Average Depth at Peak Storage= 0.17'
Bank-Full Depth= 1.50' Flow Area= 7.5 sf, Capacity= 80.39 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 8.00'
Length= 1,250.0' Slope= 0.1016 '/
Inlet Invert= 1,900.00', Outlet Invert= 1,773.00'



Summary for Reach R9.3: Swale

Inflow Area = 13.150 ac, 7.18% Impervious, Inflow Depth = 0.50" for 1-yr Local event
Inflow = 3.74 cfs @ 12.06 hrs, Volume= 0.542 af
Outflow = 3.10 cfs @ 12.18 hrs, Volume= 0.542 af, Atten= 17%, Lag= 7.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.52 fps, Min. Travel Time= 3.7 min
Avg. Velocity = 1.56 fps, Avg. Travel Time= 10.7 min

Peak Storage= 716 cf @ 12.11 hrs
Average Depth at Peak Storage= 0.28'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 158.64 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 1,000.0' Slope= 0.1120 '/
Inlet Invert= 1,768.00', Outlet Invert= 1,656.00'



Summary for Reach R9.4: Swale

Inflow Area = 5.118 ac, 41.21% Impervious, Inflow Depth = 1.13" for 1-yr Local event
 Inflow = 4.85 cfs @ 12.05 hrs, Volume= 0.480 af
 Outflow = 4.47 cfs @ 12.11 hrs, Volume= 0.480 af, Atten= 8%, Lag= 3.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Max. Velocity= 4.80 fps, Min. Travel Time= 1.9 min
 Avg. Velocity = 1.50 fps, Avg. Travel Time= 6.0 min

Peak Storage= 519 cf @ 12.07 hrs
 Average Depth at Peak Storage= 0.35'
 Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 148.51 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
 Side Slope Z-value= 2.0 '/' Top Width= 10.00'
 Length= 540.0' Slope= 0.0981 '/
 Inlet Invert= 1,769.00', Outlet Invert= 1,716.00'



Summary for Pond 6.2P: BIORETENTION

Inflow Area = 0.184 ac, 81.25% Impervious, Inflow Depth = 1.75" for 1-yr Local event
 Inflow = 0.40 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 14.12 hrs, Volume= 0.027 af, Atten= 96%, Lag= 125.0 min
 Primary = 0.02 cfs @ 14.12 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 1,685.99' Surf.Area= 1,600 sf Storage= 799 cf
 Peak Elev= 1,686.35' @ 14.12 hrs Surf.Area= 3,132 sf Storage= 1,317 cf (518 cf above start)

Plug-Flow detention time= 830.4 min calculated for 0.008 af (31% of inflow)
 Center-of-Mass det. time= 272.1 min (1,079.2 - 807.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,681.00'	320 cf	stone underdrain (Prismatic) Listed below (Recalc) 800 cf Overall x 40.0% Voids
#2	1,682.00'	480 cf	filter media (Prismatic) Listed below (Recalc) 3,200 cf Overall x 15.0% Voids
#3	1,686.00'	3,550 cf	surface storage (Prismatic) Listed below (Recalc)
		4,350 cf	Total Available Storage

08077_Proposed-localprecipdata

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Prepared by The LA group

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Page 110

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,681.00	800	0	0
1,682.00	800	800	800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,682.00	800	0	0
1,686.00	800	3,200	3,200

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,400	0	0
1,688.00	2,150	3,550	3,550

Device	Routing	Invert	Outlet Devices
#1	Primary	1,685.99'	0.500 in/hr Exfiltration over Surface area above 1,685.99' Excluded Surface area = 1,600 sf
#2	Primary	1,686.50'	5.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.02 cfs @ 14.12 hrs HW=1,686.35' (Free Discharge)

1=Exfiltration (Exfiltration Controls 0.02 cfs)

2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 6.3P: BIORETENTION

Inflow Area = 0.184 ac, 81.25% Impervious, Inflow Depth = 1.75" for 1-yr Local event
 Inflow = 0.40 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 14.12 hrs, Volume= 0.027 af, Atten= 96%, Lag= 125.0 min
 Primary = 0.02 cfs @ 14.12 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Starting Elev= 1,685.99' Surf.Area= 1,600 sf Storage= 799 cf

Peak Elev= 1,686.35' @ 14.12 hrs Surf.Area= 3,132 sf Storage= 1,317 cf (518 cf above start)

Plug-Flow detention time= 830.4 min calculated for 0.008 af (31% of inflow)

Center-of-Mass det. time= 272.1 min (1,079.2 - 807.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,681.00'	320 cf	stone underdrain (Prismatic) Listed below (Recalc) 800 cf Overall x 40.0% Voids
#2	1,682.00'	480 cf	filter media (Prismatic) Listed below (Recalc) 3,200 cf Overall x 15.0% Voids
#3	1,686.00'	3,550 cf	surface storage (Prismatic) Listed below (Recalc)
		4,350 cf	Total Available Storage

08077_Proposed-localprecipdata

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Prepared by The LA group

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Page 111

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,681.00	800	0	0
1,682.00	800	800	800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,682.00	800	0	0
1,686.00	800	3,200	3,200

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,400	0	0
1,688.00	2,150	3,550	3,550

Device	Routing	Invert	Outlet Devices
#1	Primary	1,685.99'	0.500 in/hr Exfiltration over Surface area above 1,685.99' Excluded Surface area = 1,600 sf
#2	Primary	1,686.50'	5.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.02 cfs @ 14.12 hrs HW=1,686.35' (Free Discharge)

- 1=Exfiltration (Exfiltration Controls 0.02 cfs)
- 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 11.3R: DP11.1

Inflow Area = 35.275 ac, 0.39% Impervious, Inflow Depth = 0.40" for 1-yr Local event
 Inflow = 5.93 cfs @ 12.47 hrs, Volume= 1.182 af
 Outflow = 5.92 cfs @ 12.48 hrs, Volume= 1.175 af, Atten= 0%, Lag= 0.3 min
 Primary = 5.92 cfs @ 12.48 hrs, Volume= 1.175 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 2,411.59' @ 12.48 hrs Surf.Area= 316 sf Storage= 489 cf

Plug-Flow detention time= 13.5 min calculated for 1.175 af (99% of inflow)
 Center-of-Mass det. time= 3.0 min (973.4 - 970.3)

Volume	Invert	Avail.Storage	Storage Description
#1	2,410.00'	3,500 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,410.00	300	0	0
2,420.00	400	3,500	3,500

Device	Routing	Invert	Outlet Devices
#1	Primary	2,411.00'	72.0" Round Culvert X 2.00

L= 120.0' CPP, projecting, no headwall, Ke= 0.900
 Inlet / Outlet Invert= 2,411.00' / 2,395.00' S= 0.1333 '/ Cc= 0.900
 n= 0.025 Corrugated metal, Flow Area= 28.27 sf

Primary OutFlow Max=5.89 cfs @ 12.48 hrs HW=2,411.59' (Free Discharge)

1=Culvert (Inlet Controls 5.89 cfs @ 2.06 fps)

Summary for Pond 11.7R: Culvert

Inflow Area = 102.908 ac, 6.37% Impervious, Inflow Depth = 0.51" for 1-yr Local event
 Inflow = 15.17 cfs @ 12.58 hrs, Volume= 4.339 af
 Outflow = 15.17 cfs @ 12.58 hrs, Volume= 4.339 af, Atten= 0%, Lag= 0.0 min
 Primary = 15.17 cfs @ 12.58 hrs, Volume= 4.339 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,891.37' @ 12.58 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,890.00'	48.0" Round Culvert L= 45.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,890.00' / 1,888.00' S= 0.0444 '/ Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf
#2	Primary	1,895.00'	15.0' long x 35.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=15.13 cfs @ 12.58 hrs HW=1,891.37' (Free Discharge)

1=Culvert (Inlet Controls 15.13 cfs @ 3.98 fps)
 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 11.9R: Culvert

Inflow Area = 102.908 ac, 6.37% Impervious, Inflow Depth = 0.51" for 1-yr Local event
 Inflow = 15.10 cfs @ 12.62 hrs, Volume= 4.339 af
 Outflow = 15.05 cfs @ 12.63 hrs, Volume= 4.339 af, Atten= 0%, Lag= 0.5 min
 Primary = 15.05 cfs @ 12.63 hrs, Volume= 4.339 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,774.03' @ 12.63 hrs Surf.Area= 841 sf Storage= 848 cf

Plug-Flow detention time= 2.8 min calculated for 4.339 af (100% of inflow)
 Center-of-Mass det. time= 2.6 min (1,171.0 - 1,168.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,773.00'	10,000 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,773.00	800	0	0
1,783.00	1,200	10,000	10,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,773.00'	60.0" Round Culvert L= 90.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,773.00' / 1,767.00' S= 0.0667 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 19.63 sf
#2	Primary	1,773.00'	48.0" Round Culvert L= 90.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,773.00' / 1,770.00' S= 0.0333 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=14.98 cfs @ 12.63 hrs HW=1,774.03' (Free Discharge)

1=Culvert (Inlet Controls 7.98 cfs @ 2.73 fps)

2=Culvert (Inlet Controls 7.00 cfs @ 2.73 fps)

Summary for Pond P1.1: Pond 1.1

Inflow Area = 15.782 ac, 9.63% Impervious, Inflow Depth = 0.59" for 1-yr Local event
 Inflow = 5.65 cfs @ 12.10 hrs, Volume= 0.770 af
 Outflow = 0.36 cfs @ 20.50 hrs, Volume= 0.769 af, Atten= 94%, Lag= 504.1 min
 Primary = 0.36 cfs @ 20.50 hrs, Volume= 0.769 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 2,159.55' Surf.Area= 11,012 sf Storage= 25,985 cf
 Peak Elev= 2,160.96' @ 20.50 hrs Surf.Area= 14,235 sf Storage= 43,776 cf (17,791 cf above start)

Plug-Flow detention time= 1,967.9 min calculated for 0.173 af (22% of inflow)
 Center-of-Mass det. time= 714.0 min (1,627.9 - 913.9)

Volume	Invert	Avail.Storage	Storage Description
#1	2,156.00'	120,626 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,156.00	3,831	0	0
2,158.00	7,673	11,504	11,504
2,160.00	11,982	19,655	31,159
2,162.00	16,663	28,645	59,804
2,164.00	21,746	38,409	98,213
2,165.00	23,079	22,413	120,626

Device	Routing	Invert	Outlet Devices
#1	Primary	2,158.50'	24.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,158.50' / 2,157.65' S= 0.0170 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf
#2	Device 1	2,159.55'	3.5" Vert. Orifice/Grate C= 0.600
#3	Primary	2,162.00'	24.0" W x 18.0" H Vert. Orifice/Grate C= 0.600
#4	Primary	2,163.75'	15.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.36 cfs @ 20.50 hrs HW=2,160.96' (Free Discharge)

- 1=Culvert (Passes 0.36 cfs of 17.95 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.36 cfs @ 5.42 fps)
- 3=Orifice/Grate (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P1.2: BIORETENTION

Inflow Area = 0.244 ac, 81.20% Impervious, Inflow Depth = 1.66" for 1-yr Local event
 Inflow = 0.51 cfs @ 12.04 hrs, Volume= 0.034 af
 Outflow = 0.03 cfs @ 13.80 hrs, Volume= 0.034 af, Atten= 95%, Lag= 105.7 min
 Primary = 0.03 cfs @ 13.80 hrs, Volume= 0.034 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,226.99' Surf.Area= 4,000 sf Storage= 1,997 cf
 Peak Elev= 2,227.29' @ 13.80 hrs Surf.Area= 6,235 sf Storage= 2,623 cf (626 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= 223.5 min (1,038.0 - 814.5)

Volume	Invert	Avail.Storage	Storage Description
#1	2,222.00'	800 cf	stone underdrain (Prismatic) Listed below (Recalc) 2,000 cf Overall x 40.0% Voids
#2	2,223.00'	1,200 cf	filter media (Prismatic) Listed below (Recalc) 8,000 cf Overall x 15.0% Voids
#3	2,227.00'	5,600 cf	surface storage (Prismatic) Listed below (Recalc)
		7,600 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,222.00	2,000	0	0
2,223.00	2,000	2,000	2,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,223.00	2,000	0	0
2,227.00	2,000	8,000	8,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,227.00	2,000	0	0
2,229.00	3,600	5,600	5,600

Device	Routing	Invert	Outlet Devices
#1	Primary	2,226.99'	0.500 in/hr Exfiltration over Surface area above 2,226.99' Excluded Surface area = 4,000 sf
#2	Primary	2,227.50'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.03 cfs @ 13.80 hrs HW=2,227.29' (Free Discharge)

1=Exfiltration (Exfiltration Controls 0.03 cfs)

2=Orifice/Grate (Controls 0.00 cfs)

Summary for Pond P1.3: Pond 1.3

Inflow Area = 25.678 ac, 13.90% Impervious, Inflow Depth = 0.62" for 1-yr Local event
 Inflow = 6.47 cfs @ 12.16 hrs, Volume= 1.321 af
 Outflow = 0.65 cfs @ 21.93 hrs, Volume= 1.318 af, Atten= 90%, Lag= 586.4 min
 Primary = 0.65 cfs @ 21.93 hrs, Volume= 1.318 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,164.09' Surf.Area= 14,529 sf Storage= 40,390 cf
 Peak Elev= 2,165.76' @ 21.93 hrs Surf.Area= 19,130 sf Storage= 68,568 cf (28,178 cf above start)

Plug-Flow detention time= 1,681.0 min calculated for 0.390 af (30% of inflow)
 Center-of-Mass det. time= 640.7 min (1,584.6 - 943.9)

Volume	Invert	Avail.Storage	Storage Description
#1	2,160.00'	209,531 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,160.00	5,797	0	0
2,162.00	9,507	15,304	15,304
2,164.00	14,282	23,789	39,093
2,166.00	19,778	34,060	73,153
2,168.00	25,800	45,578	118,731
2,170.00	32,000	57,800	176,531
2,171.00	34,000	33,000	209,531

Device	Routing	Invert	Outlet Devices
#1	Primary	2,162.00'	36.0" Round Culvert L= 1.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,162.00' / 2,162.00' S= 0.0000 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Device 1	2,164.10'	4.5" Vert. Orifice/Grate C= 0.600
#3	Device 1	2,167.25'	36.0" W x 12.0" H Vert. Orifice/Grate C= 0.600
#4	Primary	2,170.00'	30.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.65 cfs @ 21.93 hrs HW=2,165.76' (Free Discharge)

1=Culvert (Passes 0.65 cfs of 43.65 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.65 cfs @ 5.85 fps)

3=Orifice/Grate (Controls 0.00 cfs)

4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P1.4: BIORETENTION

Inflow Area = 1.185 ac, 77.14% Impervious, Inflow Depth = 1.75" for 1-yr Local event
 Inflow = 2.39 cfs @ 12.04 hrs, Volume= 0.173 af
 Outflow = 0.11 cfs @ 13.87 hrs, Volume= 0.173 af, Atten= 95%, Lag= 109.9 min
 Primary = 0.11 cfs @ 13.87 hrs, Volume= 0.173 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,213.99' Surf.Area= 19,000 sf Storage= 9,486 cf
 Peak Elev= 2,214.31' @ 13.87 hrs Surf.Area= 28,865 sf Storage= 12,509 cf (3,024 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= 221.3 min (996.5 - 775.1)

Volume	Invert	Avail.Storage	Storage Description
#1	2,209.00'	3,800 cf	stone underdrain (Prismatic) Listed below (Recalc) 9,500 cf Overall x 40.0% Voids
#2	2,210.00'	5,700 cf	filter media (Prismatic) Listed below (Recalc) 38,000 cf Overall x 15.0% Voids
#3	2,214.00'	21,350 cf	surface storage (Prismatic) Listed below (Recalc)
		30,850 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,209.00	9,500	0	0
2,210.00	9,500	9,500	9,500

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,210.00	9,500	0	0
2,214.00	9,500	38,000	38,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,214.00	9,500	0	0
2,216.00	11,850	21,350	21,350

Device	Routing	Invert	Outlet Devices
#1	Primary	2,209.00'	18.0" Round Culvert L= 325.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,209.00' / 2,208.50' S= 0.0015 1/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 1.77 sf
#2	Primary	2,213.99'	0.500 in/hr Exfiltration over Surface area above 2,213.99' Excluded Surface area = 19,000 sf
#3	Device 1	2,214.50'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Primary	2,215.50'	25.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.11 cfs @ 13.87 hrs HW=2,214.31' (Free Discharge)

- 1=Culvert (Passes 0.00 cfs of 7.46 cfs potential flow)
- 3=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.11 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.1: P-1

Inflow Area = 13.491 ac, 29.33% Impervious, Inflow Depth = 0.89" for 1-yr Local event
 Inflow = 6.24 cfs @ 12.05 hrs, Volume= 1.001 af
 Outflow = 0.41 cfs @ 22.40 hrs, Volume= 0.999 af, Atten= 93%, Lag= 620.9 min
 Primary = 0.41 cfs @ 22.40 hrs, Volume= 0.999 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 2,298.39' Surf.Area= 9,776 sf Storage= 24,777 cf
 Peak Elev= 2,300.15' @ 22.40 hrs Surf.Area= 14,352 sf Storage= 45,937 cf (21,160 cf above start)

Plug-Flow detention time= 1,635.6 min calculated for 0.430 af (43% of inflow)
 Center-of-Mass det. time= 716.0 min (1,676.5 - 960.5)

Volume	Invert	Avail.Storage	Storage Description
#1	2,294.00'	153,289 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,294.00	2,442	0	0
2,296.00	4,967	7,409	7,409
2,298.00	8,782	13,749	21,158
2,300.00	13,877	22,659	43,817
2,302.00	20,200	34,077	77,894
2,304.00	26,926	47,126	125,020
2,305.00	29,612	28,269	153,289

Device	Routing	Invert	Outlet Devices
#1	Primary	2,295.50'	24.0" Round Culvert L= 60.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,295.50' / 2,292.50' S= 0.0500 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf
#2	Device 1	2,298.40'	3.5" Vert. Orifice/Grate C= 0.600
#3	Device 1	2,301.25'	18.0" W x 6.0" H Vert. Orifice/Grate C= 0.600
#4	Device 1	2,302.25'	24.0" W x 12.0" H Vert. Orifice/Grate C= 0.600
#5	Primary	2,303.25'	25.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.41 cfs @ 22.40 hrs HW=2,300.15' (Free Discharge)

- 1=Culvert (Passes 0.41 cfs of 28.90 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.41 cfs @ 6.10 fps)
- 3=Orifice/Grate (Controls 0.00 cfs)
- 4=Orifice/Grate (Controls 0.00 cfs)
- 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.10: DRY SWALE

Inflow Area = 1.136 ac, 14.06% Impervious, Inflow Depth = 0.58" for 1-yr Local event
 Inflow = 0.71 cfs @ 12.05 hrs, Volume= 0.055 af
 Outflow = 0.04 cfs @ 15.82 hrs, Volume= 0.055 af, Atten= 95%, Lag= 226.1 min
 Primary = 0.04 cfs @ 15.82 hrs, Volume= 0.055 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,193.01' @ 15.82 hrs Surf.Area= 2,077 sf Storage= 1,398 cf

Plug-Flow detention time= 1,101.2 min calculated for 0.055 af (100% of inflow)
 Center-of-Mass det. time= 1,101.9 min (2,006.9 - 905.0)

Volume	Invert	Avail.Storage	Storage Description
#1	2,192.00'	2,580 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,192.00	690	0	0
2,193.50	2,750	2,580	2,580

Device	Routing	Invert	Outlet Devices
#1	Primary	2,192.00'	0.250 in/hr Exfiltration over Surface area
#2	Primary	2,193.00'	8.0' long x 1.0' breadth Broad-Crested Rectangular Weir
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00
			Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.03 cfs @ 15.82 hrs HW=2,193.01' (Free Discharge)

- 1=Exfiltration (Exfiltration Controls 0.01 cfs)
- 2=Broad-Crested Rectangular Weir (Weir Controls 0.02 cfs @ 0.27 fps)

Summary for Pond P11.11: BIORETENTION

Inflow Area = 1.621 ac, 9.86% Impervious, Inflow Depth = 0.53" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.06 hrs, Volume= 0.072 af
 Outflow = 0.04 cfs @ 12.76 hrs, Volume= 0.072 af, Atten= 77%, Lag= 41.8 min
 Primary = 0.04 cfs @ 12.76 hrs, Volume= 0.072 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Prepared by The LA group

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Page 119

Starting Elev= 2,181.99' Surf.Area= 7,600 sf Storage= 3,794 cf
 Peak Elev= 2,182.04' @ 12.76 hrs Surf.Area= 11,422 sf Storage= 3,944 cf (150 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= 11.5 min (1,764.7 - 1,753.2)

Volume	Invert	Avail.Storage	Storage Description
#1	2,177.00'	1,520 cf	gravel underdrain (Prismatic) Listed below (Recalc) 3,800 cf Overall x 40.0% Voids
#2	2,178.00'	2,280 cf	filter media (Prismatic) Listed below (Recalc) 15,200 cf Overall x 15.0% Voids
#3	2,182.00'	8,750 cf	surface storage (Prismatic) Listed below (Recalc)
		12,550 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,177.00	3,800	0	0
2,178.00	3,800	3,800	3,800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,178.00	3,800	0	0
2,182.00	3,800	15,200	15,200

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,182.00	3,800	0	0
2,184.00	4,950	8,750	8,750

Device	Routing	Invert	Outlet Devices
#1	Primary	2,181.99'	0.500 in/hr Exfiltration over Surface area above 2,181.99' Excluded Surface area = 7,600 sf
#2	Primary	2,182.50'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	2,183.50'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.04 cfs @ 12.76 hrs HW=2,182.04' (Free Discharge)

- 1=Exfiltration (Exfiltration Controls 0.04 cfs)
- 2=Orifice/Grate (Controls 0.00 cfs)
- 3=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.12: BIORETENTION

Inflow Area = 1.366 ac, 60.26% Impervious, Inflow Depth = 1.27" for 1-yr Local event
 Inflow = 2.21 cfs @ 12.04 hrs, Volume= 0.145 af
 Outflow = 0.27 cfs @ 12.67 hrs, Volume= 0.145 af, Atten= 88%, Lag= 37.6 min
 Primary = 0.27 cfs @ 12.67 hrs, Volume= 0.145 af

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Page 120

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,410.99' Surf.Area= 8,000 sf Storage= 3,994 cf
 Peak Elev= 2,411.62' @ 12.67 hrs Surf.Area= 12,494 sf Storage= 6,625 cf (2,631 cf above start)

Plug-Flow detention time= 1,025.5 min calculated for 0.053 af (37% of inflow)
 Center-of-Mass det. time= 359.7 min (1,203.9 - 844.2)

Volume	Invert	Avail.Storage	Storage Description
#1	2,406.00'	1,600 cf	DRAINAGE LAYER (Prismatic) Listed below (Recalc) 4,000 cf Overall x 40.0% Voids
#2	2,407.00'	2,400 cf	FILTER MEDIA (Prismatic) Listed below (Recalc) 16,000 cf Overall x 15.0% Voids
#3	2,411.00'	4,400 cf	surface storage (Prismatic) Listed below (Recalc)
		8,400 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,406.00	4,000	0	0
2,407.00	4,000	4,000	4,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,407.00	4,000	0	0
2,411.00	4,000	16,000	16,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,411.00	4,000	0	0
2,412.00	4,800	4,400	4,400

Device	Routing	Invert	Outlet Devices
#1	Primary	2,411.50'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	2,410.99'	0.500 in/hr Exfiltration over Surface area above 2,410.99' Excluded Surface area = 8,000 sf

Primary OutFlow Max=0.26 cfs @ 12.67 hrs HW=2,411.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.21 cfs @ 1.12 fps)

2=Exfiltration (Exfiltration Controls 0.05 cfs)

Summary for Pond P11.14: BIORETENTION

Inflow Area = 0.597 ac, 65.96% Impervious, Inflow Depth = 1.42" for 1-yr Local event
 Inflow = 1.08 cfs @ 12.04 hrs, Volume= 0.070 af
 Outflow = 0.05 cfs @ 14.30 hrs, Volume= 0.070 af, Atten= 95%, Lag= 135.2 min
 Primary = 0.05 cfs @ 14.30 hrs, Volume= 0.070 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,410.99' Surf.Area= 8,000 sf Storage= 3,994 cf
 Peak Elev= 2,411.33' @ 14.30 hrs Surf.Area= 12,264 sf Storage= 5,365 cf (1,371 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

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Page 121

Center-of-Mass det. time= 273.8 min (1,107.1 - 833.4)

Volume	Invert	Avail.Storage	Storage Description
#1	2,406.00'	1,600 cf	DRAINAGE LAYER (Prismatic) Listed below (Recalc) 4,000 cf Overall x 40.0% Voids
#2	2,407.00'	2,400 cf	FILTER MEDIA (Prismatic) Listed below (Recalc) 16,000 cf Overall x 15.0% Voids
#3	2,411.00'	4,400 cf	surface storage (Prismatic) Listed below (Recalc)
		8,400 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,406.00	4,000	0	0
2,407.00	4,000	4,000	4,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,407.00	4,000	0	0
2,411.00	4,000	16,000	16,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,411.00	4,000	0	0
2,412.00	4,800	4,400	4,400

Device	Routing	Invert	Outlet Devices
#1	Primary	2,411.50'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	2,410.99'	0.500 in/hr Exfiltration over Surface area above 2,410.99' Excluded Surface area = 8,000 sf

Primary OutFlow Max=0.05 cfs @ 14.30 hrs HW=2,411.33' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.05 cfs)

Summary for Pond P11.2: BIORETENTION

Inflow Area = 2.158 ac, 41.85% Impervious, Inflow Depth = 1.13" for 1-yr Local event
 Inflow = 2.56 cfs @ 12.06 hrs, Volume= 0.202 af
 Outflow = 0.13 cfs @ 14.43 hrs, Volume= 0.202 af, Atten= 95%, Lag= 141.8 min
 Primary = 0.13 cfs @ 14.43 hrs, Volume= 0.202 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,371.99' Surf.Area= 21,000 sf Storage= 10,484 cf
 Peak Elev= 2,372.32' @ 14.43 hrs Surf.Area= 32,046 sf Storage= 13,984 cf (3,499 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= 247.2 min (1,049.8 - 802.6)

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Page 122

Volume	Invert	Avail.Storage	Storage Description
#1	2,367.00'	4,200 cf	stone underdrain (Prismatic) Listed below (Recalc) 10,500 cf Overall x 40.0% Voids
#2	2,368.00'	6,300 cf	filter media (Prismatic) Listed below (Recalc) 42,000 cf Overall x 15.0% Voids
#3	2,372.00'	24,376 cf	surface storage (Prismatic) Listed below (Recalc)
		34,876 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,367.00	10,500	0	0
2,368.00	10,500	10,500	10,500

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,368.00	10,500	0	0
2,372.00	10,500	42,000	42,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,372.00	10,500	0	0
2,374.00	13,876	24,376	24,376

Device	Routing	Invert	Outlet Devices
#1	Primary	2,367.00'	12.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,367.00' / 2,366.00' S= 0.0200 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf
#2	Device 1	2,371.99'	0.500 in/hr Exfiltration over Surface area above 2,371.99' Excluded Surface area = 21,000 sf
#3	Device 1	2,372.50'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Primary	2,373.25'	15.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.13 cfs @ 14.43 hrs HW=2,372.32' (Free Discharge)

- 1=Culvert (Passes 0.13 cfs of 6.37 cfs potential flow)
- 2=Exfiltration (Exfiltration Controls 0.13 cfs)
- 3=Orifice/Grate (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.4: BIORETENTION

Inflow Area = 1.520 ac, 70.97% Impervious, Inflow Depth = 1.49" for 1-yr Local event
 Inflow = 2.89 cfs @ 12.04 hrs, Volume= 0.189 af
 Outflow = 0.13 cfs @ 14.18 hrs, Volume= 0.189 af, Atten= 95%, Lag= 128.2 min
 Primary = 0.13 cfs @ 14.18 hrs, Volume= 0.189 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

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Page 123

Starting Elev= 2,457.99' Surf.Area= 22,000 sf Storage= 10,983 cf
 Peak Elev= 2,458.32' @ 14.18 hrs Surf.Area= 33,575 sf Storage= 14,627 cf (3,643 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= 261.7 min (1,089.2 - 827.5)

Volume	Invert	Avail.Storage	Storage Description
#1	2,453.00'	4,400 cf	STONE LAYER (Prismatic) Listed below (Recalc) 11,000 cf Overall x 40.0% Voids
#2	2,454.00'	6,600 cf	FILTER MEDIA (Prismatic) Listed below (Recalc) 44,000 cf Overall x 15.0% Voids
#3	2,458.00'	25,580 cf	surface storage (Prismatic) Listed below (Recalc)
		36,580 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,453.00	11,000	0	0
2,454.00	11,000	11,000	11,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,454.00	11,000	0	0
2,458.00	11,000	44,000	44,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,458.00	11,000	0	0
2,460.00	14,580	25,580	25,580

Device	Routing	Invert	Outlet Devices
#1	Primary	2,453.00'	12.0" Round Culvert L= 175.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,453.00' / 2,447.00' S= 0.0343 1/8" Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf
#2	Device 1	2,458.50'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	2,457.99'	0.500 in/hr Exfiltration over Surface area above 2,457.99' Excluded Surface area = 22,000 sf

Primary OutFlow Max=0.13 cfs @ 14.18 hrs HW=2,458.32' (Free Discharge)

- 1=Culvert (Passes 0.13 cfs of 5.32 cfs potential flow)
- 2=Orifice/Grate (Controls 0.00 cfs)
- 3=Exfiltration (Exfiltration Controls 0.13 cfs)

Summary for Pond P11.6: DRY SWALE

Inflow Area = 0.138 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.34 cfs @ 12.04 hrs, Volume= 0.025 af
 Outflow = 0.01 cfs @ 17.25 hrs, Volume= 0.025 af, Atten= 98%, Lag= 312.9 min
 Primary = 0.01 cfs @ 17.25 hrs, Volume= 0.025 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

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Page 124

Peak Elev= 2,482.77' @ 17.25 hrs Surf.Area= 1,294 sf Storage= 691 cf

Plug-Flow detention time= 1,016.1 min calculated for 0.025 af (100% of inflow)
Center-of-Mass det. time= 1,015.9 min (1,782.1 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	2,482.00'	1,911 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,482.00	500	0	0
2,483.50	2,048	1,911	1,911

Device	Routing	Invert	Outlet Devices
#1	Primary	2,482.00'	0.250 in/hr Exfiltration over Surface area
#2	Primary	2,483.00'	10.0' long x 1.0' breadth Broad-Crested Rectangular Weir
Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00			
Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32			

Primary OutFlow Max=0.01 cfs @ 17.25 hrs HW=2,482.77' (Free Discharge)

- 1=Exfiltration (Exfiltration Controls 0.01 cfs)
- 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.7: BIORETENTION

Inflow Area = 0.655 ac, 58.70% Impervious, Inflow Depth = 1.27" for 1-yr Local event
 Inflow = 1.06 cfs @ 12.04 hrs, Volume= 0.069 af
 Outflow = 0.05 cfs @ 14.07 hrs, Volume= 0.069 af, Atten= 95%, Lag= 121.6 min
 Primary = 0.05 cfs @ 14.07 hrs, Volume= 0.069 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,247.99' Surf.Area= 9,100 sf Storage= 4,543 cf
 Peak Elev= 2,248.28' @ 14.07 hrs Surf.Area= 13,823 sf Storage= 5,834 cf (1,291 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 231.2 min (1,075.4 - 844.2)

Volume	Invert	Avail.Storage	Storage Description
#1	2,243.00'	1,820 cf	gravel drainage layer (Prismatic) Listed below (Recalc) 4,550 cf Overall x 40.0% Voids
#2	2,244.00'	2,730 cf	filter media (Prismatic) Listed below (Recalc) 18,200 cf Overall x 15.0% Voids
#3	2,248.00'	10,350 cf	surface storage (Prismatic) Listed below (Recalc)
		14,900 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,243.00	4,550	0	0
2,244.00	4,550	4,550	4,550

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Page 125

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,244.00	4,550	0	0
2,248.00	4,550	18,200	18,200

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,248.00	4,550	0	0
2,250.00	5,800	10,350	10,350

Device	Routing	Invert	Outlet Devices
#1	Primary	2,243.00'	18.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,243.00' / 2,240.00' S= 0.0600 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 1.77 sf
#2	Device 1	2,247.99'	0.500 in/hr Exfiltration over Surface area above 2,247.99' Excluded Surface area = 9,100 sf
#3	Device 1	2,248.50'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Primary	2,249.00'	25.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.05 cfs @ 14.07 hrs HW=2,248.28' (Free Discharge)

- 1=Culvert (Passes 0.05 cfs of 18.10 cfs potential flow)
- 2=Exfiltration (Exfiltration Controls 0.05 cfs)
- 3=Orifice/Grate (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.8: BIORETENTION

Inflow Area = 0.365 ac, 78.17% Impervious, Inflow Depth = 1.66" for 1-yr Local event
 Inflow = 0.76 cfs @ 12.04 hrs, Volume= 0.050 af
 Outflow = 0.04 cfs @ 13.90 hrs, Volume= 0.050 af, Atten= 95%, Lag= 111.5 min
 Primary = 0.04 cfs @ 13.90 hrs, Volume= 0.050 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,259.99' Surf.Area= 6,150 sf Storage= 3,070 cf
 Peak Elev= 2,260.30' @ 13.90 hrs Surf.Area= 9,370 sf Storage= 4,010 cf (940 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= 230.7 min (1,045.2 - 814.5)

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Page 126

Volume	Invert	Avail.Storage	Storage Description
#1	2,255.00'	1,230 cf	gravel underdrain (Prismatic) Listed below (Recalc) 3,075 cf Overall x 40.0% Voids
#2	2,256.00'	1,845 cf	filter media (Prismatic) Listed below (Recalc) 12,300 cf Overall x 15.0% Voids
#3	2,260.00'	7,125 cf	surface storage (Prismatic) Listed below (Recalc)
		10,200 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,255.00	3,075	0	0
2,256.00	3,075	3,075	3,075

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,256.00	3,075	0	0
2,260.00	3,075	12,300	12,300

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,260.00	3,075	0	0
2,262.00	4,050	7,125	7,125

Device	Routing	Invert	Outlet Devices
#1	Primary	2,255.00'	12.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,255.00' / 2,254.50' S= 0.0100 1/1 Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf
#2	Device 1	2,259.99'	0.500 in/hr Exfiltration over Surface area above 2,259.99' Excluded Surface area = 6,150 sf
#3	Device 1	2,260.50'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Primary	2,261.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.04 cfs @ 13.90 hrs HW=2,260.30' (Free Discharge)

- 1=Culvert (Passes 0.04 cfs of 6.04 cfs potential flow)
- 2=Exfiltration (Exfiltration Controls 0.04 cfs)
- 3=Orifice/Grate (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.9: BIORETENTION

Inflow Area = 0.575 ac, 22.45% Impervious, Inflow Depth = 0.75" for 1-yr Local event
 Inflow = 0.51 cfs @ 12.05 hrs, Volume= 0.036 af
 Outflow = 0.03 cfs @ 14.64 hrs, Volume= 0.036 af, Atten= 94%, Lag= 155.3 min
 Primary = 0.03 cfs @ 14.64 hrs, Volume= 0.036 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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Page 127

Starting Elev= 2,218.99' Surf.Area= 3,680 sf Storage= 1,837 cf
 Peak Elev= 2,219.26' @ 14.64 hrs Surf.Area= 6,198 sf Storage= 2,484 cf (647 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= 243.6 min (1,129.8 - 886.2)

Volume	Invert	Avail.Storage	Storage Description
#1	2,214.00'	736 cf	gravel drainage layer (Prismatic) Listed below (Recalc) 1,840 cf Overall x 40.0% Voids
#2	2,215.00'	1,104 cf	filter media (Prismatic) Listed below (Recalc) 7,360 cf Overall x 15.0% Voids
#3	2,219.00'	5,700 cf	surface storage (Prismatic) Listed below (Recalc)
		7,540 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,214.00	1,840	0	0
2,215.00	1,840	1,840	1,840

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,215.00	1,840	0	0
2,219.00	1,840	7,360	7,360

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,219.00	2,400	0	0
2,221.00	3,300	5,700	5,700

Device	Routing	Invert	Outlet Devices
#1	Primary	2,218.99'	0.500 in/hr Exfiltration over Surface area above 2,218.99' Excluded Surface area = 3,680 sf
#2	Primary	2,219.50'	10.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.03 cfs @ 14.64 hrs HW=2,219.26' (Free Discharge)

- 1=Exfiltration (Exfiltration Controls 0.03 cfs)
- 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P12.1: Pond 12.1

Inflow Area = 6.530 ac, 24.64% Impervious, Inflow Depth = 0.80" for 1-yr Local event
 Inflow = 4.13 cfs @ 12.08 hrs, Volume= 0.437 af
 Outflow = 0.22 cfs @ 17.81 hrs, Volume= 0.434 af, Atten= 95%, Lag= 343.7 min
 Primary = 0.22 cfs @ 17.81 hrs, Volume= 0.434 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 128

Starting Elev= 2,296.49' Surf.Area= 8,129 sf Storage= 13,732 cf
Peak Elev= 2,297.53' @ 17.81 hrs Surf.Area= 10,605 sf Storage= 23,482 cf (9,751 cf above start)

Plug-Flow detention time= 1,670.6 min calculated for 0.119 af (27% of inflow)
Center-of-Mass det. time= 637.6 min (1,533.0 - 895.4)

Volume	Invert	Avail.Storage	Storage Description
#1	2,294.00'	120,048 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,294.00	3,070	0	0
2,296.00	6,964	10,034	10,034
2,298.00	11,720	18,684	28,718
2,300.00	16,919	28,639	57,357
2,302.00	22,520	39,439	96,796
2,303.00	23,983	23,252	120,048

Device	Routing	Invert	Outlet Devices
#1	Primary	2,294.00'	24.0" Round Culvert L= 350.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,294.00' / 2,276.00' S= 0.0514 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf
#2	Device 1	2,296.50'	3.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	2,298.75'	18.0" W x 6.0" H Vert. Orifice/Grate C= 0.600
#4	Primary	2,301.00'	10.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.22 cfs @ 17.81 hrs HW=2,297.53' (Free Discharge)

- 1=Culvert (Passes 0.22 cfs of 24.07 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.22 cfs @ 4.58 fps)
- 3=Orifice/Grate (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P2.1: Pond 2.1

Inflow Area = 16.159 ac, 17.05% Impervious, Inflow Depth = 0.71" for 1-yr Local event
 Inflow = 7.83 cfs @ 12.06 hrs, Volume= 0.950 af
 Outflow = 0.46 cfs @ 18.21 hrs, Volume= 0.946 af, Atten= 94%, Lag= 369.4 min
 Primary = 0.46 cfs @ 18.21 hrs, Volume= 0.946 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,182.99' Surf.Area= 13,676 sf Storage= 30,438 cf
 Peak Elev= 2,184.38' @ 18.21 hrs Surf.Area= 17,099 sf Storage= 51,854 cf (21,416 cf above start)

Plug-Flow detention time= 1,850.3 min calculated for 0.247 af (26% of inflow)
 Center-of-Mass det. time= 687.1 min (1,566.3 - 879.1)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 129

Volume	Invert	Avail.Storage	Storage Description
#1	2,180.00'	159,675 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,180.00	6,775	0	0
2,182.00	11,300	18,075	18,075
2,184.00	16,100	27,400	45,475
2,186.00	21,300	37,400	82,875
2,188.00	27,000	48,300	131,175
2,189.00	30,000	28,500	159,675

Device	Routing	Invert	Outlet Devices
#1	Primary	2,183.00'	36.0" Round Culvert L= 200.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,183.00' / 2,180.00' S= 0.0150 1/1' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Device 1	2,183.00'	4.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	2,185.50'	18.0" W x 6.0" H Vert. Orifice/Grate C= 0.600
#4	Device 1	2,186.00'	30.0" W x 12.0" H Vert. Orifice/Grate C= 0.600
#5	Primary	2,188.00'	10.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.46 cfs @ 18.21 hrs HW=2,184.38' (Free Discharge)

- 1=Culvert (Passes 0.46 cfs of 12.61 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.46 cfs @ 5.31 fps)
- 3=Orifice/Grate (Controls 0.00 cfs)
- 4=Orifice/Grate (Controls 0.00 cfs)
- 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P4.1: P-1

Inflow Area = 26.676 ac, 13.82% Impervious, Inflow Depth = 0.64" for 1-yr Local event
 Inflow = 8.43 cfs @ 12.10 hrs, Volume= 1.414 af
 Outflow = 0.72 cfs @ 20.43 hrs, Volume= 1.412 af, Atten= 91%, Lag= 499.3 min
 Primary = 0.72 cfs @ 20.43 hrs, Volume= 1.412 af
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 2,185.50' Surf.Area= 14,800 sf Storage= 41,775 cf
 Peak Elev= 2,187.62' @ 20.43 hrs Surf.Area= 20,784 sf Storage= 79,289 cf (37,514 cf above start)

Plug-Flow detention time= 2,819.8 min calculated for 0.453 af (32% of inflow)
 Center-of-Mass det. time= 1,203.8 min (2,134.4 - 930.6)

Volume	Invert	Avail.Storage	Storage Description
#1	2,181.00'	168,440 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Page 130

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,181.00	4,390	0	0
2,182.00	6,270	5,330	5,330
2,184.00	10,900	17,170	22,500
2,186.00	16,100	27,000	49,500
2,188.00	21,900	38,000	87,500
2,190.00	28,500	50,400	137,900
2,191.00	32,580	30,540	168,440

Device	Routing	Invert	Outlet Devices
#1	Primary	2,181.00'	30.0" Round Culvert L= 30.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,181.00' / 2,180.85' S= 0.0050 1/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf
#2	Device 1	2,185.50'	3.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	2,187.50'	36.0" W x 24.0" H Vert. Orifice/Grate C= 0.600
#4	Device 1	2,189.75'	36.0" W x 12.0" H Vert. Orifice/Grate C= 0.600
#5	Secondary	2,189.75'	20.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.71 cfs @ 20.43 hrs HW=2,187.62' (Free Discharge)

- ↑1=Culvert (Passes 0.71 cfs of 54.75 cfs potential flow)
- ↑2=Orifice/Grate (Orifice Controls 0.33 cfs @ 6.79 fps)
- ↑3=Orifice/Grate (Orifice Controls 0.38 cfs @ 1.09 fps)
- ↑4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=2,185.50' (Free Discharge)

- ↑5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P6.1: BIORETENTION

Inflow Area = 0.184 ac, 81.25% Impervious, Inflow Depth = 1.75" for 1-yr Local event
 Inflow = 0.40 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 14.12 hrs, Volume= 0.027 af, Atten= 96%, Lag= 125.0 min
 Primary = 0.02 cfs @ 14.12 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Starting Elev= 1,685.99' Surf.Area= 1,600 sf Storage= 799 cf

Peak Elev= 1,686.35' @ 14.12 hrs Surf.Area= 3,132 sf Storage= 1,317 cf (518 cf above start)

Plug-Flow detention time= 830.4 min calculated for 0.008 af (31% of inflow)

Center-of-Mass det. time= 272.1 min (1,079.2 - 807.1)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 131

Volume	Invert	Avail.Storage	Storage Description
#1	1,681.00'	320 cf	stone underdrain (Prismatic) Listed below (Recalc) 800 cf Overall x 40.0% Voids
#2	1,682.00'	480 cf	filter media (Prismatic) Listed below (Recalc) 3,200 cf Overall x 15.0% Voids
#3	1,686.00'	3,550 cf	surface storage (Prismatic) Listed below (Recalc)
		4,350 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,681.00	800	0	0
1,682.00	800	800	800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,682.00	800	0	0
1,686.00	800	3,200	3,200

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,400	0	0
1,688.00	2,150	3,550	3,550

Device	Routing	Invert	Outlet Devices
#1	Primary	1,685.99'	0.500 in/hr Exfiltration over Surface area above 1,685.99' Excluded Surface area = 1,600 sf
#2	Primary	1,686.50'	5.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.02 cfs @ 14.12 hrs HW=1,686.35' (Free Discharge)

- 1=Exfiltration (Exfiltration Controls 0.02 cfs)
- 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P8.1: DRY SWALE

Inflow Area = 2.715 ac, 28.55% Impervious, Inflow Depth = 0.75" for 1-yr Local event
 Inflow = 1.92 cfs @ 12.12 hrs, Volume= 0.170 af
 Outflow = 1.10 cfs @ 12.31 hrs, Volume= 0.170 af, Atten= 43%, Lag= 11.4 min
 Primary = 1.10 cfs @ 12.31 hrs, Volume= 0.170 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,309.14' @ 12.31 hrs Surf.Area= 2,390 sf Storage= 1,776 cf

Plug-Flow detention time= 270.7 min calculated for 0.170 af (100% of inflow)
 Center-of-Mass det. time= 271.9 min (1,163.1 - 891.1)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 132

Volume	Invert	Avail.Storage	Storage Description
#1	2,308.00'	2,746 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,308.00	740	0	0
2,309.50	2,921	2,746	2,746

Device	Routing	Invert	Outlet Devices
#1	Primary	2,309.00'	8.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32
#2	Primary	2,308.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=1.08 cfs @ 12.31 hrs HW=2,309.13' (Free Discharge)

1=**Broad-Crested Rectangular Weir** (Weir Controls 1.06 cfs @ 0.98 fps)

2=**Exfiltration** (Exfiltration Controls 0.03 cfs)

Summary for Pond P8.2: P-3

Inflow Area = 3.450 ac, 12.00% Impervious, Inflow Depth = 2.79" for 1-yr Local event
 Inflow = 5.95 cfs @ 12.12 hrs, Volume= 0.801 af
 Outflow = 0.31 cfs @ 22.90 hrs, Volume= 0.800 af, Atten= 95%, Lag= 646.8 min
 Primary = 0.31 cfs @ 22.90 hrs, Volume= 0.800 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 1,679.25' Surf.Area= 9,045 sf Storage= 25,779 cf
 Peak Elev= 1,681.07' @ 22.90 hrs Surf.Area= 12,711 sf Storage= 45,471 cf (19,693 cf above start)

Plug-Flow detention time= 2,198.3 min calculated for 0.208 af (26% of inflow)
 Center-of-Mass det. time= 858.4 min (1,840.8 - 982.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,674.00'	112,698 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,674.00	1,790	0	0
1,676.00	3,789	5,579	5,579
1,678.00	6,620	10,409	15,988
1,680.00	10,500	17,120	33,108
1,682.00	14,650	25,150	58,258
1,684.00	19,510	34,160	92,418
1,685.00	21,050	20,280	112,698

Device	Routing	Invert	Outlet Devices
#1	Primary	1,678.00'	36.0" Round Culvert L= 93.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,678.00' / 1,677.00' S= 0.0108 1/1 Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Device 1	1,679.25'	3.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	1,681.50'	36.0" W x 18.0" H Vert. Orifice/Grate C= 0.600
#4	Primary	1,683.25'	20.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.31 cfs @ 22.90 hrs HW=1,681.07' (Free Discharge)

- 1=Culvert (Passes 0.31 cfs of 37.47 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.31 cfs @ 6.26 fps)
- 3=Orifice/Grate (Controls 0.00 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P8.3: DRY SWALE

Inflow Area = 1.145 ac, 16.92% Impervious, Inflow Depth = 0.66" for 1-yr Local event
 Inflow = 0.86 cfs @ 12.05 hrs, Volume= 0.063 af
 Outflow = 0.06 cfs @ 14.11 hrs, Volume= 0.063 af, Atten= 93%, Lag= 123.6 min
 Primary = 0.06 cfs @ 14.11 hrs, Volume= 0.063 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,756.01' @ 14.11 hrs Surf.Area= 2,009 sf Storage= 1,352 cf

Plug-Flow detention time= 631.4 min calculated for 0.063 af (100% of inflow)
 Center-of-Mass det. time= 631.3 min (1,526.7 - 895.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,755.00'	2,487 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,755.00	660	0	0
1,756.50	2,656	2,487	2,487

Device	Routing	Invert	Outlet Devices
#1	Primary	1,756.00'	8.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32
#2	Primary	1,755.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.06 cfs @ 14.11 hrs HW=1,756.01' (Free Discharge)

- 1=Broad-Crested Rectangular Weir (Weir Controls 0.03 cfs @ 0.31 fps)
- 2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P8.4: P-3

Inflow Area = 26.981 ac, 22.99% Impervious, Inflow Depth = 0.44" for 1-yr Local event
 Inflow = 7.53 cfs @ 12.11 hrs, Volume= 0.992 af
 Outflow = 0.44 cfs @ 20.94 hrs, Volume= 0.992 af, Atten= 94%, Lag= 529.7 min
 Primary = 0.44 cfs @ 20.94 hrs, Volume= 0.992 af
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 1,665.50' Surf.Area= 12,392 sf Storage= 32,108 cf
 Peak Elev= 1,667.15' @ 20.94 hrs Surf.Area= 15,847 sf Storage= 55,327 cf (23,219 cf above start)

Plug-Flow detention time= 1,961.1 min calculated for 0.255 af (26% of inflow)
 Center-of-Mass det. time= 746.8 min (1,690.7 - 943.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,662.00'	160,100 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,662.00	5,962	0	0
1,664.00	9,630	15,592	15,592
1,666.00	13,312	22,942	38,534
1,668.00	17,713	31,025	69,559
1,670.00	22,540	40,253	109,812
1,672.00	27,748	50,288	160,100

Device	Routing	Invert	Outlet Devices
#1	Primary	1,663.75'	30.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,663.75' / 1,663.50' S= 0.0050 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf
#2	Device 1	1,665.50'	3.7" Vert. Orifice/Grate C= 0.600
#3	Device 1	1,668.50'	30.0" W x 24.0" H Vert. Orifice/Grate C= 0.600
#4	Secondary	1,670.50'	20.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.44 cfs @ 20.94 hrs HW=1,667.15' (Free Discharge)

- ↑1=Culvert (Passes 0.44 cfs of 26.24 cfs potential flow)
- ↑2=Orifice/Grate (Orifice Controls 0.44 cfs @ 5.89 fps)
- ↑3=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,665.50' (Free Discharge)

- ↑4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P8.5: I-2

Inflow Area = 2.352 ac, 39.21% Impervious, Inflow Depth = 0.85" for 1-yr Local event
 Inflow = 2.43 cfs @ 12.05 hrs, Volume= 0.167 af
 Outflow = 0.10 cfs @ 16.27 hrs, Volume= 0.167 af, Atten= 96%, Lag= 253.2 min
 Discarded = 0.10 cfs @ 16.27 hrs, Volume= 0.167 af
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,676.21' @ 16.27 hrs Surf.Area= 3,087 sf Storage= 3,881 cf

Plug-Flow detention time= 533.4 min calculated for 0.167 af (100% of inflow)
 Center-of-Mass det. time= 533.6 min (1,410.8 - 877.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,674.00'	34,944 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,674.00	465	0	0
1,676.00	2,800	3,265	3,265
1,678.00	5,541	8,341	11,606
1,680.00	8,686	14,227	25,833
1,681.00	9,535	9,111	34,944

Device	Routing	Invert	Outlet Devices
#1	Discarded	1,674.00'	1.340 in/hr Exfiltration over Surface area
#2	Primary	1,674.00'	24.0" Round Culvert L= 500.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,674.00' / 1,662.50' S= 0.0230 1/1 Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf
#3	Device 2	1,678.20'	2.0" Vert. Orifice/Grate C= 0.600
#4	Device 2	1,679.50'	24.0" x 24.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#5	Primary	1,680.00'	20.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Discarded OutFlow Max=0.10 cfs @ 16.27 hrs HW=1,676.21' (Free Discharge)
 ↑1=Exfiltration (Exfiltration Controls 0.10 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,674.00' (Free Discharge)
 ↑2=Culvert (Controls 0.00 cfs)
 ↑3=Orifice/Grate (Controls 0.00 cfs)
 ↑4=Orifice/Grate (Controls 0.00 cfs)
 ↑5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P9.2: Pond 9.2

Inflow Area = 12.954 ac, 25.61% Impervious, Inflow Depth = 0.84" for 1-yr Local event
 Inflow = 7.69 cfs @ 12.08 hrs, Volume= 0.906 af
 Outflow = 0.37 cfs @ 21.47 hrs, Volume= 0.906 af, Atten= 95%, Lag= 563.0 min
 Primary = 0.37 cfs @ 21.47 hrs, Volume= 0.906 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 1,670.00' Surf.Area= 13,607 sf Storage= 25,872 cf
 Peak Elev= 1,671.46' @ 21.47 hrs Surf.Area= 17,015 sf Storage= 48,235 cf (22,363 cf above start)

Plug-Flow detention time= 1,969.2 min calculated for 0.312 af (34% of inflow)
 Center-of-Mass det. time= 859.6 min (1,748.0 - 888.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,666.00'	166,295 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,666.00	3,085	0	0
1,668.00	4,590	7,675	7,675
1,670.00	13,607	18,197	25,872
1,672.00	18,274	31,881	57,753
1,674.00	23,344	41,618	99,371
1,676.00	28,815	52,159	151,530
1,676.50	30,246	14,765	166,295

Device	Routing	Invert	Outlet Devices
#1	Primary	1,668.00'	24.0" Round Culvert L= 55.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,668.00' / 1,666.00' S= 0.0364 1/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf
#2	Device 1	1,670.00'	3.5" Vert. Orifice/Grate C= 0.600
#3	Device 1	1,672.50'	24.0" W x 6.0" H Vert. Orifice/Grate C= 0.600
#4	Device 1	1,673.50'	24.0" W x 12.0" H Vert. Orifice/Grate C= 0.600
#5	Primary	1,674.50'	20.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.37 cfs @ 21.47 hrs HW=1,671.46' (Free Discharge)

- 1=Culvert (Passes 0.37 cfs of 23.73 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.37 cfs @ 5.52 fps)
- 3=Orifice/Grate (Controls 0.00 cfs)
- 4=Orifice/Grate (Controls 0.00 cfs)
- 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond R1.10: PIPE

Inflow Area = 21.914 ac, 7.72% Impervious, Inflow Depth = 0.51" for 1-yr Local event
 Inflow = 4.86 cfs @ 12.23 hrs, Volume= 0.925 af
 Outflow = 4.86 cfs @ 12.23 hrs, Volume= 0.925 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.86 cfs @ 12.23 hrs, Volume= 0.925 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,260.82' @ 12.23 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,260.00'	36.0" Round Culvert L= 1,125.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,260.00' / 2,185.00' S= 0.0667 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=4.83 cfs @ 12.23 hrs HW=2,260.82' (Free Discharge)

↑1=Culvert (Inlet Controls 4.83 cfs @ 3.08 fps)

Summary for Pond R1.11: Pipe

Inflow Area = 22.468 ac, 9.65% Impervious, Inflow Depth = 0.54" for 1-yr Local event
 Inflow = 5.18 cfs @ 12.22 hrs, Volume= 1.009 af
 Outflow = 5.18 cfs @ 12.22 hrs, Volume= 1.009 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.18 cfs @ 12.22 hrs, Volume= 1.009 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,190.78' @ 12.22 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,190.00'	48.0" Round Culvert L= 230.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,190.00' / 2,180.00' S= 0.0435 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 12.57 sf

Primary OutFlow Max=5.15 cfs @ 12.22 hrs HW=2,190.78' (Free Discharge)

↑1=Culvert (Inlet Controls 5.15 cfs @ 3.00 fps)

Summary for Pond R1.3: Culvert

Inflow Area = 10.291 ac, 2.57% Impervious, Inflow Depth = 0.44" for 1-yr Local event
 Inflow = 2.58 cfs @ 12.17 hrs, Volume= 0.377 af
 Outflow = 2.58 cfs @ 12.17 hrs, Volume= 0.377 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.58 cfs @ 12.17 hrs, Volume= 0.377 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,400.63' @ 12.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,400.00'	36.0" Round Culvert L= 1,255.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,400.00' / 2,318.00' S= 0.0653 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=2.53 cfs @ 12.17 hrs HW=2,400.62' (Free Discharge)

↑1=Culvert (Inlet Controls 2.53 cfs @ 2.37 fps)

Summary for Pond R1.4: pipe

Inflow Area = 10.291 ac, 2.57% Impervious, Inflow Depth = 0.44" for 1-yr Local event
 Inflow = 2.58 cfs @ 12.17 hrs, Volume= 0.377 af
 Outflow = 2.58 cfs @ 12.17 hrs, Volume= 0.377 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.58 cfs @ 12.17 hrs, Volume= 0.377 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,300.59' @ 12.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,300.00'	36.0" Round Culvert L= 950.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,300.00' / 2,212.00' S= 0.0926 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=2.52 cfs @ 12.17 hrs HW=2,300.58' (Free Discharge)

↑1=Culvert (Inlet Controls 2.52 cfs @ 2.60 fps)

Summary for Pond R1.5: Pipe

Inflow Area = 11.201 ac, 9.91% Impervious, Inflow Depth = 0.56" for 1-yr Local event
 Inflow = 3.69 cfs @ 12.12 hrs, Volume= 0.524 af
 Outflow = 3.69 cfs @ 12.12 hrs, Volume= 0.524 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.69 cfs @ 12.12 hrs, Volume= 0.524 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,195.71' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,195.00'	36.0" Round Culvert L= 120.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,195.00' / 2,180.00' S= 0.1250 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=3.66 cfs @ 12.12 hrs HW=2,195.71' (Free Discharge)

↑1=Culvert (Inlet Controls 3.66 cfs @ 2.87 fps)

Summary for Pond R1.6: pipe

Inflow Area = 0.909 ac, 92.98% Impervious, Inflow Depth = 1.93" for 1-yr Local event
 Inflow = 2.15 cfs @ 12.04 hrs, Volume= 0.147 af
 Outflow = 2.15 cfs @ 12.04 hrs, Volume= 0.147 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.15 cfs @ 12.04 hrs, Volume= 0.147 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,207.82' @ 12.04 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,207.00'	24.0" Round Culvert L= 260.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,207.00' / 2,205.70' S= 0.0050 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.07 cfs @ 12.04 hrs HW=2,207.80' (Free Discharge)

↑1=Culvert (Barrel Controls 2.07 cfs @ 2.61 fps)

Summary for Pond R1.7: Culvert

Inflow Area = 3.337 ac, 12.31% Impervious, Inflow Depth = 0.69" for 1-yr Local event
 Inflow = 1.54 cfs @ 12.06 hrs, Volume= 0.191 af
 Outflow = 1.54 cfs @ 12.06 hrs, Volume= 0.191 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.54 cfs @ 12.06 hrs, Volume= 0.191 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,206.21' @ 12.06 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,206.00'	60.0" W x 36.0" H Box Culvert L= 50.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,206.00' / 2,205.00' S= 0.0200 '/ Cc= 0.900 n= 0.013 Concrete, trowel finish, Flow Area= 15.00 sf

Primary OutFlow Max=1.51 cfs @ 12.06 hrs HW=2,206.21' (Free Discharge)

↑1=Culvert (Inlet Controls 1.51 cfs @ 1.46 fps)

Summary for Pond R1.9: PIPE

Inflow Area = 17.718 ac, 2.79% Impervious, Inflow Depth = 0.44" for 1-yr Local event
 Inflow = 3.82 cfs @ 12.26 hrs, Volume= 0.655 af
 Outflow = 3.82 cfs @ 12.26 hrs, Volume= 0.655 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.82 cfs @ 12.26 hrs, Volume= 0.655 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,295.73' @ 12.26 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,295.00'	36.0" Round Culvert L= 350.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,295.00' / 2,262.00' S= 0.0943 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=3.80 cfs @ 12.26 hrs HW=2,295.72' (Free Discharge)

↑1=Culvert (Inlet Controls 3.80 cfs @ 2.90 fps)

Summary for Pond R11.11: CULVERT

Inflow Area = 4.758 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
 Inflow = 1.41 cfs @ 12.11 hrs, Volume= 0.156 af
 Outflow = 1.41 cfs @ 12.11 hrs, Volume= 0.156 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.41 cfs @ 12.11 hrs, Volume= 0.156 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,478.46' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,478.00'	30.0" Round Culvert L= 35.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 2,478.00' / 2,468.00' S= 0.2857 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf

Primary OutFlow Max=1.39 cfs @ 12.11 hrs HW=2,478.45' (Free Discharge)
 ↑1=Culvert (Inlet Controls 1.39 cfs @ 2.29 fps)

Summary for Pond R11.15: CB

Inflow Area = 11.496 ac, 0.90% Impervious, Inflow Depth = 0.41" for 1-yr Local event
 Inflow = 2.48 cfs @ 12.27 hrs, Volume= 0.393 af
 Outflow = 2.48 cfs @ 12.27 hrs, Volume= 0.393 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.48 cfs @ 12.27 hrs, Volume= 0.393 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,452.68' @ 12.27 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,452.00'	36.0" Round Culvert L= 110.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,452.00' / 2,451.00' S= 0.0091 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=2.45 cfs @ 12.27 hrs HW=2,452.67' (Free Discharge)
 ↑1=Culvert (Barrel Controls 2.45 cfs @ 3.13 fps)

Summary for Pond R11.17: CB

Inflow Area = 11.507 ac, 0.00% Impervious, Inflow Depth = 0.37" for 1-yr Local event
 Inflow = 2.05 cfs @ 12.20 hrs, Volume= 0.351 af
 Outflow = 2.05 cfs @ 12.20 hrs, Volume= 0.351 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.05 cfs @ 12.20 hrs, Volume= 0.351 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,435.52' @ 12.20 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,435.00'	36.0" Round Culvert L= 290.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,435.00' / 2,410.00' S= 0.0862 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=2.05 cfs @ 12.20 hrs HW=2,435.52' (Free Discharge)

↑1=Culvert (Inlet Controls 2.05 cfs @ 2.47 fps)

Summary for Pond R11.19: CB

Inflow Area = 1.118 ac, 74.27% Impervious, Inflow Depth = 1.57" for 1-yr Local event
 Inflow = 2.18 cfs @ 12.04 hrs, Volume= 0.146 af
 Outflow = 2.18 cfs @ 12.04 hrs, Volume= 0.146 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.18 cfs @ 12.04 hrs, Volume= 0.146 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,420.54' @ 12.04 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,420.00'	36.0" Round Culvert L= 290.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,420.00' / 2,395.00' S= 0.0862 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=2.12 cfs @ 12.04 hrs HW=2,420.53' (Free Discharge)

↑1=Culvert (Inlet Controls 2.12 cfs @ 2.49 fps)

Summary for Pond R11.20: CULVERT

Inflow Area = 5.469 ac, 0.00% Impervious, Inflow Depth = 0.43" for 1-yr Local event
 Inflow = 1.53 cfs @ 12.18 hrs, Volume= 0.195 af
 Outflow = 1.53 cfs @ 12.18 hrs, Volume= 0.195 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.53 cfs @ 12.18 hrs, Volume= 0.195 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,459.48' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,459.00'	30.0" Round Culvert L= 900.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 2,459.00' / 2,394.00' S= 0.0722 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf

Primary OutFlow Max=1.52 cfs @ 12.18 hrs HW=2,459.47' (Free Discharge)

↑1=Culvert (Inlet Controls 1.52 cfs @ 2.34 fps)

Summary for Pond R11.21: CULVERT

Inflow Area = 8.551 ac, 23.95% Impervious, Inflow Depth = 0.78" for 1-yr Local event
 Inflow = 3.06 cfs @ 12.07 hrs, Volume= 0.556 af
 Outflow = 3.06 cfs @ 12.07 hrs, Volume= 0.556 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.06 cfs @ 12.07 hrs, Volume= 0.556 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,394.65' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,394.00'	36.0" Round Culvert L= 900.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,394.00' / 2,328.00' S= 0.0733 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=2.96 cfs @ 12.07 hrs HW=2,394.64' (Free Discharge)

↑1=Culvert (Inlet Controls 2.96 cfs @ 2.71 fps)

Summary for Pond R11.22: CB

Inflow Area = 0.233 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.58 cfs @ 12.04 hrs, Volume= 0.042 af
 Outflow = 0.58 cfs @ 12.04 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.58 cfs @ 12.04 hrs, Volume= 0.042 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,460.31' @ 12.04 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,460.00'	36.0" Round Culvert L= 770.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,460.00' / 2,450.00' S= 0.0130 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=0.56 cfs @ 12.04 hrs HW=2,460.30' (Free Discharge)

↑1=Culvert (Barrel Controls 0.56 cfs @ 2.33 fps)

Summary for Pond R11.24: CB

Inflow Area = 5.910 ac, 0.00% Impervious, Inflow Depth = 0.37" for 1-yr Local event
 Inflow = 1.05 cfs @ 12.31 hrs, Volume= 0.181 af
 Outflow = 1.05 cfs @ 12.31 hrs, Volume= 0.181 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.05 cfs @ 12.31 hrs, Volume= 0.181 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,486.42' @ 12.31 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,486.00'	30.0" Round Culvert L= 695.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,486.00' / 2,436.00' S= 0.0719 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf

Primary OutFlow Max=1.04 cfs @ 12.31 hrs HW=2,486.42' (Free Discharge)

↑1=Culvert (Inlet Controls 1.04 cfs @ 1.94 fps)

Summary for Pond R11.26: BOX CULVERT

Inflow Area = 16.103 ac, 0.00% Impervious, Inflow Depth = 0.40" for 1-yr Local event
 Inflow = 3.32 cfs @ 12.25 hrs, Volume= 0.534 af
 Outflow = 3.32 cfs @ 12.25 hrs, Volume= 0.534 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.32 cfs @ 12.25 hrs, Volume= 0.534 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,310.38' @ 12.25 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,310.00'	60.0" W x 36.0" H Box Culvert L= 50.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,310.00' / 2,309.00' S= 0.0200 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 15.00 sf

Primary OutFlow Max=3.32 cfs @ 12.25 hrs HW=2,310.38' (Free Discharge)
 ↑1=Culvert (Inlet Controls 3.32 cfs @ 1.75 fps)

Summary for Pond R11.32: CULVERT

Inflow Area = 12.144 ac, 0.85% Impervious, Inflow Depth = 0.41" for 1-yr Local event
 Inflow = 2.54 cfs @ 12.32 hrs, Volume= 0.413 af
 Outflow = 2.54 cfs @ 12.32 hrs, Volume= 0.413 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.54 cfs @ 12.32 hrs, Volume= 0.413 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,434.66' @ 12.32 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,434.00'	36.0" Round Culvert L= 110.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 2,434.00' / 2,425.00' S= 0.0818 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=2.52 cfs @ 12.32 hrs HW=2,434.66' (Free Discharge)
 ↑1=Culvert (Inlet Controls 2.52 cfs @ 2.18 fps)

Summary for Pond R12.1: CB

Inflow Area = 0.419 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 1.05 cfs @ 12.04 hrs, Volume= 0.075 af
 Outflow = 1.05 cfs @ 12.04 hrs, Volume= 0.075 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.05 cfs @ 12.04 hrs, Volume= 0.075 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,309.78' @ 12.04 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,309.30'	24.0" Round Culvert L= 630.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,309.30' / 2,303.00' S= 0.0100 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf

Primary OutFlow Max=1.01 cfs @ 12.04 hrs HW=2,309.77' (Free Discharge)

↑1=Culvert (Barrel Controls 1.01 cfs @ 2.67 fps)

Summary for Pond R2.1: PIPE

Inflow Area = 6.131 ac, 1.87% Impervious, Inflow Depth = 0.40" for 1-yr Local event
 Inflow = 1.23 cfs @ 12.22 hrs, Volume= 0.202 af
 Outflow = 1.23 cfs @ 12.22 hrs, Volume= 0.202 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.23 cfs @ 12.22 hrs, Volume= 0.202 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,288.40' @ 12.22 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,288.00'	36.0" Round Culvert L= 1,185.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,288.00' / 2,215.00' S= 0.0616 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=1.21 cfs @ 12.22 hrs HW=2,288.40' (Free Discharge)

↑1=Culvert (Inlet Controls 1.21 cfs @ 2.16 fps)

Summary for Pond R2.2: PIPE

Inflow Area = 7.598 ac, 20.81% Impervious, Inflow Depth = 0.73" for 1-yr Local event
 Inflow = 4.04 cfs @ 12.05 hrs, Volume= 0.464 af
 Outflow = 4.04 cfs @ 12.05 hrs, Volume= 0.464 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.04 cfs @ 12.05 hrs, Volume= 0.464 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,213.75' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,213.00'	36.0" Round Culvert L= 795.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,213.00' / 2,190.00' S= 0.0289 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=4.04 cfs @ 12.05 hrs HW=2,213.75' (Free Discharge)

↑1=Culvert (Inlet Controls 4.04 cfs @ 2.94 fps)

Summary for Pond R2.3: catch basin

Inflow Area = 5.677 ac, 7.08% Impervious, Inflow Depth = 0.55" for 1-yr Local event
 Inflow = 1.77 cfs @ 12.12 hrs, Volume= 0.260 af
 Outflow = 1.77 cfs @ 12.12 hrs, Volume= 0.260 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.77 cfs @ 12.12 hrs, Volume= 0.260 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,264.55' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,270.00'	24.0" x 24.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	2,264.00'	24.0" Round Culvert L= 1,755.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,264.00' / 2,191.00' S= 0.0416 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf

Primary OutFlow Max=1.72 cfs @ 12.12 hrs HW=2,264.54' (Free Discharge)

- ↑1=Orifice/Grate (Controls 0.00 cfs)
- ↳2=Culvert (Inlet Controls 1.72 cfs @ 2.50 fps)

Summary for Pond R2.5: Road culvert

Inflow Area = 2.890 ac, 13.90% Impervious, Inflow Depth = 0.67" for 1-yr Local event
 Inflow = 1.03 cfs @ 12.06 hrs, Volume= 0.160 af
 Outflow = 1.03 cfs @ 12.06 hrs, Volume= 0.160 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.03 cfs @ 12.06 hrs, Volume= 0.160 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,229.39' @ 12.06 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,229.00'	36.0" Round Culvert L= 75.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,229.00' / 2,226.00' S= 0.0400 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=0.99 cfs @ 12.06 hrs HW=2,229.39' (Free Discharge)

- ↑1=Culvert (Inlet Controls 0.99 cfs @ 1.87 fps)

Summary for Pond R2.6: Road Culvert

Inflow Area = 0.737 ac, 12.46% Impervious, Inflow Depth = 0.58" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.06 hrs, Volume= 0.036 af
 Outflow = 0.20 cfs @ 12.06 hrs, Volume= 0.036 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.20 cfs @ 12.06 hrs, Volume= 0.036 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,216.21' @ 12.06 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,216.00'	18.0" Round Culvert L= 30.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,216.00' / 2,215.00' S= 0.0333 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.19 cfs @ 12.06 hrs HW=2,216.20' (Free Discharge)

- ↑1=Culvert (Inlet Controls 0.19 cfs @ 1.34 fps)

Summary for Pond R2.8: cb

Inflow Area = 7.441 ac, 15.27% Impervious, Inflow Depth = 0.70" for 1-yr Local event
 Inflow = 1.88 cfs @ 12.20 hrs, Volume= 0.433 af
 Outflow = 1.88 cfs @ 12.20 hrs, Volume= 0.433 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.88 cfs @ 12.20 hrs, Volume= 0.433 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,187.50' @ 12.20 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,187.00'	36.0" Round Culvert L= 450.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,187.00' / 2,160.00' S= 0.0600 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=1.88 cfs @ 12.20 hrs HW=2,187.50' (Free Discharge)

↑1=Culvert (Inlet Controls 1.88 cfs @ 2.41 fps)

Summary for Pond R4.1: catch basin

Inflow Area = 15.597 ac, 8.50% Impervious, Inflow Depth = 0.54" for 1-yr Local event
 Inflow = 4.63 cfs @ 12.14 hrs, Volume= 0.706 af
 Outflow = 4.63 cfs @ 12.14 hrs, Volume= 0.706 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.63 cfs @ 12.14 hrs, Volume= 0.706 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,288.27' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,284.00'	36.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,284.00' / 2,283.50' S= 0.0100 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Device 1	2,288.00'	30.0" x 30.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=4.59 cfs @ 12.14 hrs HW=2,288.27' (Free Discharge)

↑1=Culvert (Passes 4.59 cfs of 49.13 cfs potential flow)

↑2=Orifice/Grate (Weir Controls 4.59 cfs @ 1.70 fps)

Summary for Pond R4.3: culvert

Inflow Area = 17.508 ac, 10.00% Impervious, Inflow Depth = 0.56" for 1-yr Local event
 Inflow = 5.08 cfs @ 12.17 hrs, Volume= 0.820 af
 Outflow = 5.08 cfs @ 12.17 hrs, Volume= 0.820 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.08 cfs @ 12.17 hrs, Volume= 0.820 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,208.90' @ 12.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,213.00'	36.0" x 36.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	2,208.00'	36.0" Round Culvert L= 210.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,208.00' / 2,192.00' S= 0.0762 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=5.02 cfs @ 12.17 hrs HW=2,208.89' (Free Discharge)

- ↑1=Orifice/Grate (Controls 0.00 cfs)
- ↑2=Culvert (Inlet Controls 5.02 cfs @ 2.84 fps)

Summary for Pond R4.4: CULVERT

Inflow Area = 26.676 ac, 13.82% Impervious, Inflow Depth > 0.64" for 1-yr Local event
 Inflow = 0.72 cfs @ 20.43 hrs, Volume= 1.412 af
 Outflow = 0.72 cfs @ 20.43 hrs, Volume= 1.412 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.72 cfs @ 20.43 hrs, Volume= 1.412 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,181.13' @ 20.43 hrs
 Flood Elev= 2,085.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	2,180.80'	36.0" Round Culvert L= 580.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,180.80' / 2,067.00' S= 0.1962 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=0.72 cfs @ 20.43 hrs HW=2,181.13' (Free Discharge)

- ↑1=Culvert (Inlet Controls 0.72 cfs @ 1.72 fps)

Summary for Pond R4.6: CULVERT

Inflow Area = 32.763 ac, 11.26% Impervious, Inflow Depth > 0.60" for 1-yr Local event
 Inflow = 2.35 cfs @ 12.12 hrs, Volume= 1.640 af
 Outflow = 2.35 cfs @ 12.12 hrs, Volume= 1.640 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.35 cfs @ 12.12 hrs, Volume= 1.640 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,004.60' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,004.00'	36.0" Round Culvert L= 50.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,004.00' / 2,003.00' S= 0.0200 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=2.28 cfs @ 12.12 hrs HW=2,004.59' (Free Discharge)

- ↑1=Culvert (Inlet Controls 2.28 cfs @ 2.31 fps)

Summary for Pond R4.8: CULVERT

Inflow Area = 3.559 ac, 0.00% Impervious, Inflow Depth = 0.46" for 1-yr Local event
 Inflow = 1.60 cfs @ 12.06 hrs, Volume= 0.137 af
 Outflow = 1.60 cfs @ 12.06 hrs, Volume= 0.137 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.60 cfs @ 12.06 hrs, Volume= 0.137 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,092.56' @ 12.06 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,092.00'	24.0" Round Culvert L= 150.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,092.00' / 2,067.00' S= 0.1667 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf

Primary OutFlow Max=1.55 cfs @ 12.06 hrs HW=2,092.55' (Free Discharge)

↑1=Culvert (Inlet Controls 1.55 cfs @ 2.22 fps)

Summary for Pond R5.1: CULVERT

Inflow Area = 8.776 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
 Inflow = 2.66 cfs @ 12.09 hrs, Volume= 0.289 af
 Outflow = 2.66 cfs @ 12.09 hrs, Volume= 0.289 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.66 cfs @ 12.09 hrs, Volume= 0.289 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,904.66' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,904.00'	33.0" Round Culvert L= 810.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 1,904.00' / 1,823.00' S= 0.1000 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 5.94 sf

Primary OutFlow Max=2.61 cfs @ 12.09 hrs HW=1,904.65' (Free Discharge)

↑1=Culvert (Inlet Controls 2.61 cfs @ 2.43 fps)

Summary for Pond R8.1: CULVERT

Inflow Area = 2.715 ac, 28.55% Impervious, Inflow Depth = 0.75" for 1-yr Local event
 Inflow = 1.10 cfs @ 12.31 hrs, Volume= 0.170 af
 Outflow = 1.10 cfs @ 12.31 hrs, Volume= 0.170 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.10 cfs @ 12.31 hrs, Volume= 0.170 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,308.46' @ 12.31 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,308.00'	24.0" Round Culvert L= 275.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,308.00' / 2,304.00' S= 0.0145 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf

Primary OutFlow Max=1.08 cfs @ 12.31 hrs HW=2,308.45' (Free Discharge)

↑1=Culvert (Inlet Controls 1.08 cfs @ 2.02 fps)

Summary for Pond R8.10: CB

Inflow Area = 15.958 ac, 29.48% Impervious, Inflow Depth = 0.83" for 1-yr Local event
 Inflow = 8.26 cfs @ 12.07 hrs, Volume= 1.102 af
 Outflow = 8.26 cfs @ 12.07 hrs, Volume= 1.102 af, Atten= 0%, Lag= 0.0 min
 Primary = 8.26 cfs @ 12.07 hrs, Volume= 1.102 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,977.01' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,976.00'	45.0" Round Culvert L= 765.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,976.00' / 1,899.00' S= 0.1007 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 11.04 sf

Primary OutFlow Max=7.98 cfs @ 12.07 hrs HW=1,977.00' (Free Discharge)

↑1=Culvert (Inlet Controls 7.98 cfs @ 3.40 fps)

Summary for Pond R8.12: CULVERT

Inflow Area = 5.442 ac, 8.40% Impervious, Inflow Depth = 0.52" for 1-yr Local event
 Inflow = 1.76 cfs @ 12.11 hrs, Volume= 0.235 af
 Outflow = 1.76 cfs @ 12.11 hrs, Volume= 0.235 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.76 cfs @ 12.11 hrs, Volume= 0.235 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,902.55' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,902.00'	30.0" Round Culvert L= 40.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 1,902.00' / 1,899.00' S= 0.0750 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf

Primary OutFlow Max=1.73 cfs @ 12.11 hrs HW=1,902.54' (Free Discharge)

↑1=Culvert (Inlet Controls 1.73 cfs @ 2.21 fps)

Summary for Pond R8.13: CB

Inflow Area = 21.400 ac, 24.12% Impervious, Inflow Depth = 0.75" for 1-yr Local event
 Inflow = 9.89 cfs @ 12.07 hrs, Volume= 1.337 af
 Outflow = 9.89 cfs @ 12.07 hrs, Volume= 1.337 af, Atten= 0%, Lag= 0.0 min
 Primary = 9.89 cfs @ 12.07 hrs, Volume= 1.337 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,897.09' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,896.00'	48.0" Round Culvert L= 835.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,896.00' / 1,824.00' S= 0.0862 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 12.57 sf

Primary OutFlow Max=9.54 cfs @ 12.07 hrs HW=1,897.07' (Free Discharge)

↑1=Culvert (Inlet Controls 9.54 cfs @ 3.52 fps)

Summary for Pond R8.15: CB

Inflow Area =	24.114 ac, 25.39% Impervious, Inflow Depth = 0.76" for 1-yr Local event
Inflow =	12.48 cfs @ 12.07 hrs, Volume= 1.536 af
Outflow =	12.48 cfs @ 12.07 hrs, Volume= 1.536 af, Atten= 0%, Lag= 0.0 min
Primary =	7.06 cfs @ 12.07 hrs, Volume= 0.886 af
Secondary =	5.41 cfs @ 12.07 hrs, Volume= 0.649 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 1,821.92' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,821.00'	48.0" Round Culvert L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,821.00' / 1,818.00' S= 0.0300 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 12.57 sf
#2	Secondary	1,821.00'	36.0" Round Culvert L= 65.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,821.00' / 1,820.00' S= 0.0154 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=6.81 cfs @ 12.07 hrs HW=1,821.90' (Free Discharge)

↑1=Culvert (Inlet Controls 6.81 cfs @ 3.23 fps)

Secondary OutFlow Max=5.22 cfs @ 12.07 hrs HW=1,821.90' (Free Discharge)

↑2=Culvert (Barrel Controls 5.22 cfs @ 4.40 fps)

Summary for Pond R8.20: PIPE

Inflow Area =	24.114 ac, 25.39% Impervious, Inflow Depth = 0.44" for 1-yr Local event
Inflow =	7.06 cfs @ 12.07 hrs, Volume= 0.886 af
Outflow =	7.06 cfs @ 12.07 hrs, Volume= 0.886 af, Atten= 0%, Lag= 0.0 min
Primary =	7.06 cfs @ 12.07 hrs, Volume= 0.886 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,816.25' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,815.00'	42.0" Round PIPE L= 220.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,815.00' / 1,814.00' S= 0.0045 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 9.62 sf

Primary OutFlow Max=6.81 cfs @ 12.07 hrs HW=1,816.23' (Free Discharge)

↑1=PIPE (Barrel Controls 6.81 cfs @ 3.37 fps)

Summary for Pond R8.22: New Culvert

Inflow Area = 51.032 ac, 13.71% Impervious, Inflow Depth > 0.59" for 1-yr Local event
 Inflow = 3.56 cfs @ 12.60 hrs, Volume= 2.498 af
 Outflow = 3.56 cfs @ 12.60 hrs, Volume= 2.498 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.56 cfs @ 12.60 hrs, Volume= 2.498 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,663.56' @ 12.60 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,663.00'	24.0" Round Culvert X 2.00 L= 50.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,663.00' / 1,662.50' S= 0.0100 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Primary	1,670.00'	20.0' long x 30.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=3.56 cfs @ 12.60 hrs HW=1,663.56' (Free Discharge)

- 1=Culvert (Barrel Controls 3.56 cfs @ 3.68 fps)
- 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond R8.3: CULVERT

Inflow Area = 6.715 ac, 30.90% Impervious, Inflow Depth = 0.78" for 1-yr Local event
 Inflow = 3.35 cfs @ 12.08 hrs, Volume= 0.437 af
 Outflow = 3.35 cfs @ 12.08 hrs, Volume= 0.437 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.35 cfs @ 12.08 hrs, Volume= 0.437 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,272.72' @ 12.08 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,272.00'	36.0" Round Culvert L= 50.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,272.00' / 2,271.00' S= 0.0200 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Primary	2,274.00'	10.0' long x 30.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=3.27 cfs @ 12.08 hrs HW=2,272.71' (Free Discharge)

- 1=Culvert (Inlet Controls 3.27 cfs @ 2.54 fps)
- 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond R8.5: CULVERT

Inflow Area = 8.502 ac, 27.24% Impervious, Inflow Depth = 0.76" for 1-yr Local event
 Inflow = 3.64 cfs @ 12.14 hrs, Volume= 0.535 af
 Outflow = 3.64 cfs @ 12.14 hrs, Volume= 0.535 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.64 cfs @ 12.14 hrs, Volume= 0.535 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,222.76' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,222.00'	36.0" Round Culvert L= 50.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,222.00' / 2,220.00' S= 0.0400 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Primary	2,224.00'	10.0' long x 30.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=3.59 cfs @ 12.14 hrs HW=2,222.75' (Free Discharge)

- 1=Culvert (Inlet Controls 3.59 cfs @ 2.60 fps)
- 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond R8.7: CULVERT

Inflow Area = 14.012 ac, 24.04% Impervious, Inflow Depth = 0.74" for 1-yr Local event
 Inflow = 5.35 cfs @ 12.14 hrs, Volume= 0.867 af
 Outflow = 5.35 cfs @ 12.14 hrs, Volume= 0.867 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.35 cfs @ 12.14 hrs, Volume= 0.867 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,178.88' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,178.00'	42.0" Round Culvert L= 200.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,178.00' / 2,163.00' S= 0.0750 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 9.62 sf

Primary OutFlow Max=5.31 cfs @ 12.14 hrs HW=2,178.88' (Free Discharge)

- 1=Culvert (Inlet Controls 5.31 cfs @ 2.81 fps)

Summary for Pond R8.8: CB

Inflow Area = 14.734 ac, 26.41% Impervious, Inflow Depth = 0.78" for 1-yr Local event
 Inflow = 6.15 cfs @ 12.11 hrs, Volume= 0.957 af
 Outflow = 6.15 cfs @ 12.11 hrs, Volume= 0.957 af, Atten= 0%, Lag= 0.0 min
 Primary = 6.15 cfs @ 12.11 hrs, Volume= 0.957 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,160.89' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,160.00'	42.0" Round Culvert L= 880.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,160.00' / 2,077.00' S= 0.0943 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 9.62 sf

Primary OutFlow Max=6.12 cfs @ 12.11 hrs HW=2,160.88' (Free Discharge)

↳1=Culvert (Inlet Controls 6.12 cfs @ 3.20 fps)

Summary for Pond R8.9: CB

Inflow Area = 15.354 ac, 28.00% Impervious, Inflow Depth = 0.81" for 1-yr Local event
 Inflow = 7.24 cfs @ 12.07 hrs, Volume= 1.030 af
 Outflow = 7.24 cfs @ 12.07 hrs, Volume= 1.030 af, Atten= 0%, Lag= 0.0 min
 Primary = 7.24 cfs @ 12.07 hrs, Volume= 1.030 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,074.97' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,074.00'	42.0" Round Culvert L= 900.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,074.00' / 1,979.00' S= 0.1056 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 9.62 sf

Primary OutFlow Max=6.99 cfs @ 12.07 hrs HW=2,074.95' (Free Discharge)

↳1=Culvert (Inlet Controls 6.99 cfs @ 3.32 fps)

Summary for Pond R9.1: pipes

Inflow Area = 3.982 ac, 24.44% Impervious, Inflow Depth = 0.84" for 1-yr Local event
 Inflow = 2.05 cfs @ 12.06 hrs, Volume= 0.278 af
 Outflow = 2.05 cfs @ 12.06 hrs, Volume= 0.278 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.05 cfs @ 12.06 hrs, Volume= 0.278 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 1,816.59' @ 12.06 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,816.00'	30.0" Round Culvert L= 560.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 1,816.00' / 1,770.00' S= 0.0821 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf
#2	Primary	1,820.00'	40.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=1.99 cfs @ 12.06 hrs HW=1,816.58' (Free Discharge)

↳1=Culvert (Inlet Controls 1.99 cfs @ 2.29 fps)

↳2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond R9.11: Culvert

Inflow Area = 26.104 ac, 16.32% Impervious, Inflow Depth = 0.67" for 1-yr Local event
 Inflow = 3.33 cfs @ 12.18 hrs, Volume= 1.449 af
 Outflow = 3.33 cfs @ 12.18 hrs, Volume= 1.449 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.33 cfs @ 12.18 hrs, Volume= 1.449 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,658.67' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,658.00'	36.0" Round Culvert L= 50.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,658.00' / 1,656.00' S= 0.0400 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=3.31 cfs @ 12.18 hrs HW=1,658.67' (Free Discharge)
 ↑1=Culvert (Inlet Controls 3.31 cfs @ 2.79 fps)

Summary for Pond R9.2A: Culvert

Inflow Area = 13.150 ac, 7.18% Impervious, Inflow Depth = 0.50" for 1-yr Local event
 Inflow = 3.74 cfs @ 12.06 hrs, Volume= 0.542 af
 Outflow = 3.74 cfs @ 12.06 hrs, Volume= 0.542 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.74 cfs @ 12.06 hrs, Volume= 0.542 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,772.66' @ 12.06 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,772.00'	48.0" Round Culvert L= 40.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,772.00' / 1,770.00' S= 0.0500 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 12.57 sf

Primary OutFlow Max=3.64 cfs @ 12.06 hrs HW=1,772.65' (Free Discharge)
 ↑1=Culvert (Inlet Controls 3.64 cfs @ 2.74 fps)

Summary for Pond R9.5: Culvert

Inflow Area = 4.347 ac, 22.35% Impervious, Inflow Depth = 0.78" for 1-yr Local event
 Inflow = 2.43 cfs @ 12.05 hrs, Volume= 0.282 af
 Outflow = 2.43 cfs @ 12.05 hrs, Volume= 0.282 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.43 cfs @ 12.05 hrs, Volume= 0.282 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,714.51' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,714.00'	54.0" Round Culvert L= 60.0' CPP, end-section conforming to fill, Ke= 0.500

Inlet / Outlet Invert= 1,714.00' / 1,710.00' S= 0.0667 '/ n= 0.020 Corrugated PE, corrugated interior, Flow Area= 15.90 sf

Primary OutFlow Max=2.40 cfs @ 12.05 hrs HW=1,714.51' (Free Discharge)

↑1=Culvert (Inlet Controls 2.40 cfs @ 2.43 fps)

Summary for Pond R9.6: Culvert

Inflow Area = 1.291 ac, 18.31% Impervious, Inflow Depth = 0.55" for 1-yr Local event
 Inflow = 0.42 cfs @ 12.10 hrs, Volume= 0.059 af
 Outflow = 0.42 cfs @ 12.10 hrs, Volume= 0.059 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.42 cfs @ 12.10 hrs, Volume= 0.059 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,684.29' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,684.00'	18.0" Round Culvert L= 100.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,684.00' / 1,682.00' S= 0.0200 '/ n= 0.020 Corrugated PE, corrugated interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.41 cfs @ 12.10 hrs HW=1,684.29' (Free Discharge)

↑1=Culvert (Barrel Controls 0.41 cfs @ 2.67 fps)

Summary for Link 1.1L: Sub 1.1 Res

Inflow Area = 0.275 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.03 cfs @ 13.63 hrs, Volume= 0.049 af
 Primary = 0.03 cfs @ 13.63 hrs, Volume= 0.049 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 1.2L: Sub 1.2 Res

Inflow Area = 0.264 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.03 cfs @ 13.60 hrs, Volume= 0.047 af
 Primary = 0.03 cfs @ 13.60 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 1.3L: Sub 1.3 Res

Inflow Area = 0.149 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.02 cfs @ 13.91 hrs, Volume= 0.027 af
Primary = 0.02 cfs @ 13.91 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 1.4L: Sub 1.4 Res

Inflow Area = 0.161 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.02 cfs @ 13.59 hrs, Volume= 0.029 af
Primary = 0.02 cfs @ 13.59 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 1.5L: Sub 1.5 Res

Inflow Area = 0.494 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.06 cfs @ 13.61 hrs, Volume= 0.088 af
Primary = 0.06 cfs @ 13.61 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 1.6L: Sub 1.6 Res

Inflow Area = 0.379 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.05 cfs @ 13.66 hrs, Volume= 0.068 af
Primary = 0.05 cfs @ 13.66 hrs, Volume= 0.068 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 1.9L: Sub 1.9 Res

Inflow Area = 0.528 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.06 cfs @ 13.82 hrs, Volume= 0.094 af
Primary = 0.06 cfs @ 13.82 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 2.10L: Sub 2.10 Res

Inflow Area = 0.562 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.07 cfs @ 13.71 hrs, Volume= 0.100 af
Primary = 0.07 cfs @ 13.71 hrs, Volume= 0.100 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 2.1L: Sub 2.1 Res

Inflow Area = 0.115 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.71 hrs, Volume= 0.020 af
Primary = 0.01 cfs @ 13.71 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 2.3L: Sub 2.3 Res

Inflow Area = 0.241 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.03 cfs @ 13.59 hrs, Volume= 0.043 af
Primary = 0.03 cfs @ 13.59 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 2.6L: Sub 2.6 Res

Inflow Area = 0.402 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.05 cfs @ 13.59 hrs, Volume= 0.072 af
Primary = 0.05 cfs @ 13.59 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 2.7L: Sub 2.7 Res

Inflow Area = 0.402 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.05 cfs @ 13.59 hrs, Volume= 0.072 af
Primary = 0.05 cfs @ 13.59 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 2.8L: Sub 2.8 Res

Inflow Area = 0.092 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af
Primary = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 2.9L: Sub 2.9 Res

Inflow Area = 0.643 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.08 cfs @ 13.59 hrs, Volume= 0.115 af
Primary = 0.08 cfs @ 13.59 hrs, Volume= 0.115 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 4.1L: Sub 4.1 Res

Inflow Area = 0.585 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.07 cfs @ 13.62 hrs, Volume= 0.104 af
Primary = 0.07 cfs @ 13.62 hrs, Volume= 0.104 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 4.3L: Sub 4.3 Res

Inflow Area = 1.377 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.17 cfs @ 13.60 hrs, Volume= 0.246 af
Primary = 0.17 cfs @ 13.60 hrs, Volume= 0.246 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 4.4L: Sub 4.4 Res

Inflow Area = 0.253 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.03 cfs @ 13.62 hrs, Volume= 0.045 af
Primary = 0.03 cfs @ 13.62 hrs, Volume= 0.045 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 5.2L: Sub 5.2 Res

Inflow Area = 0.333 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.04 cfs @ 13.61 hrs, Volume= 0.059 af
Primary = 0.04 cfs @ 13.61 hrs, Volume= 0.059 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 8.10L: Sub 8.10 Res

Inflow Area = 0.643 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.08 cfs @ 13.59 hrs, Volume= 0.115 af
Primary = 0.08 cfs @ 13.59 hrs, Volume= 0.115 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 8.11L: Sub 8.11 Res

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af
Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 8.15L: Sub 8.15 Res

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af
Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 8.1L: Sub 8.1 Res

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af
Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 8.4L: Sub 8.4 Res

Inflow Area = 0.287 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.04 cfs @ 13.66 hrs, Volume= 0.051 af
Primary = 0.04 cfs @ 13.66 hrs, Volume= 0.051 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 8.5L: Sub 8.5 Res

Inflow Area = 0.298 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.04 cfs @ 13.67 hrs, Volume= 0.053 af
Primary = 0.04 cfs @ 13.67 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 8.8L: Sub 8.8 Res

Inflow Area = 0.241 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.03 cfs @ 13.59 hrs, Volume= 0.043 af
Primary = 0.03 cfs @ 13.59 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 9.10L: Sub 9.10 Res

Inflow Area = 0.321 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.04 cfs @ 13.59 hrs, Volume= 0.057 af
Primary = 0.04 cfs @ 13.59 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 9.11L: Sub 9.11 Res

Inflow Area = 0.402 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.05 cfs @ 13.59 hrs, Volume= 0.072 af
Primary = 0.05 cfs @ 13.59 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 9.1L: Sub 9.1 Res

Inflow Area = 0.241 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.03 cfs @ 13.59 hrs, Volume= 0.043 af
Primary = 0.03 cfs @ 13.59 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 9.5L: Sub 8.5 Res

Inflow Area = 0.092 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af
Primary = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 9.6L: Sub 9.6 Res

Inflow Area = 0.562 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.07 cfs @ 13.59 hrs, Volume= 0.100 af
Primary = 0.07 cfs @ 13.59 hrs, Volume= 0.100 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 11.14L: Sub 11.14 Res

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af
Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 11.18L: Sub 11.18 Res

Inflow Area = 0.103 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.60 hrs, Volume= 0.018 af
Primary = 0.01 cfs @ 13.60 hrs, Volume= 0.018 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 11.25L: Sub 11.25 Res

Inflow Area = 0.161 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.02 cfs @ 13.59 hrs, Volume= 0.029 af
Primary = 0.02 cfs @ 13.59 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 11.33L: Sub 11.33 Res

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af
Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 11.3L: Sub 11.3 Res

Inflow Area = 0.436 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.05 cfs @ 13.62 hrs, Volume= 0.078 af
Primary = 0.05 cfs @ 13.62 hrs, Volume= 0.078 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Summary for Link 12.2L: Sub 12.2 Res

Inflow Area = 0.379 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.05 cfs @ 13.66 hrs, Volume= 0.068 af
Primary = 0.05 cfs @ 13.66 hrs, Volume= 0.068 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

1-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential Lot

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1.10S: Area 1.10	Runoff Area=10,640 sf 81.20% Impervious Runoff Depth=3.45" Tc=6.0 min CN=93 Runoff=0.94 cfs 0.070 af
Subcatchment 1.11S: Area 1.11	Runoff Area=13,460 sf 89.60% Impervious Runoff Depth=3.78" Flow Length=230' Tc=8.0 min CN=96 Runoff=1.16 cfs 0.097 af
Subcatchment 1.12S: Area 1.12	Runoff Area=35,190 sf 60.29% Impervious Runoff Depth=2.95" Flow Length=641' Tc=10.7 min CN=88 Runoff=2.27 cfs 0.199 af
Subcatchment 1.13S: Area 1.13	Runoff Area=53,050 sf 0.00% Impervious Runoff Depth=1.77" Flow Length=50' Slope=0.2500 1/1' Tc=6.0 min CN=74 Runoff=2.46 cfs 0.180 af
Subcatchment 1.14S: Area 1.14	Runoff Area=11,800 sf 0.00% Impervious Runoff Depth=1.56" Tc=6.0 min CN=71 Runoff=0.47 cfs 0.035 af
Subcatchment 1.15S: Area 1.15	Runoff Area=23,830 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=2.27 cfs 0.183 af
Subcatchment 1.16S: Area 1.16	Runoff Area=15,985 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=1.52 cfs 0.122 af
Subcatchment 1.17S: Area 1.17	Runoff Area=30,241 sf 0.00% Impervious Runoff Depth=1.85" Flow Length=465' Tc=6.0 min CN=75 Runoff=1.47 cfs 0.107 af
Subcatchment 1.1S: Area-1.1	Runoff Area=1,542,650 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=2,295' Tc=16.9 min CN=70 Runoff=39.52 cfs 4.404 af
Subcatchment 1.2S: Area 1.2	Runoff Area=436,779 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=1,510' Tc=12.8 min CN=70 Runoff=12.54 cfs 1.247 af
Subcatchment 1.3S: Area-1.3	Runoff Area=124,373 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=750' Tc=15.5 min CN=70 Runoff=3.29 cfs 0.355 af
Subcatchment 1.4S: Area 1.4	Runoff Area=345,904 sf 0.00% Impervious Runoff Depth=1.63" Flow Length=1,361' Tc=10.9 min CN=72 Runoff=11.86 cfs 1.079 af
Subcatchment 1.5S: Area 1.5	Runoff Area=750,276 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=1,965' Tc=18.0 min CN=70 Runoff=18.66 cfs 2.142 af
Subcatchment 1.6S: Area 1.6	Runoff Area=128,870 sf 1.08% Impervious Runoff Depth=1.70" Flow Length=465' Tc=6.0 min CN=73 Runoff=5.69 cfs 0.420 af
Subcatchment 1.7S: Area 1.7	Runoff Area=39,615 sf 92.98% Impervious Runoff Depth=3.78" Flow Length=1,245' Tc=6.0 min CN=96 Runoff=3.69 cfs 0.286 af
Subcatchment 1.8S: Area 1.8	Runoff Area=54,200 sf 0.00% Impervious Runoff Depth=1.77" Flow Length=140' Tc=6.0 min CN=74 Runoff=2.51 cfs 0.184 af

Subcatchment 1.9S: Area 1.9	Runoff Area=159,810 sf 18.28% Impervious Runoff Depth=1.85" Flow Length=730' Tc=6.0 min CN=75 Runoff=7.76 cfs 0.565 af
Subcatchment 2.10S: Area 2.10	Runoff Area=302,226 sf 1.05% Impervious Runoff Depth=1.63" Flow Length=965' Tc=13.8 min CN=72 Runoff=9.41 cfs 0.943 af
Subcatchment 2.1S: Area 2.1	Runoff Area=262,081 sf 0.00% Impervious Runoff Depth=1.43" Flow Length=1,585' Tc=15.2 min CN=69 Runoff=6.61 cfs 0.715 af
Subcatchment 2.2S: Area 2.2	Runoff Area=63,870 sf 100.00% Impervious Runoff Depth=4.00" Flow Length=1,910' Tc=6.0 min CN=98 Runoff=6.08 cfs 0.489 af
Subcatchment 2.3S: Area 2.3	Runoff Area=91,990 sf 0.00% Impervious Runoff Depth=1.70" Flow Length=208' Tc=6.0 min CN=73 Runoff=4.06 cfs 0.300 af
Subcatchment 2.4S: Area 2.4	Runoff Area=15,150 sf 100.00% Impervious Runoff Depth=4.00" Flow Length=885' Slope=0.0200 1/1' Tc=6.0 min CN=98 Runoff=1.44 cfs 0.116 af
Subcatchment 2.5S: Area 2.5	Runoff Area=8,000 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.76 cfs 0.061 af
Subcatchment 2.6S: Area 2.6	Runoff Area=229,805 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=862' Tc=9.9 min CN=71 Runoff=7.74 cfs 0.686 af
Subcatchment 2.7S: Area 2.7	Runoff Area=108,393 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=715' Tc=6.0 min CN=71 Runoff=4.33 cfs 0.324 af
Subcatchment 2.8S: Area 2.8	Runoff Area=28,100 sf 0.00% Impervious Runoff Depth=1.43" Flow Length=365' Tc=6.0 min CN=69 Runoff=1.01 cfs 0.077 af
Subcatchment 2.9S: Area 2.9	Runoff Area=138,145 sf 0.00% Impervious Runoff Depth=1.63" Flow Length=680' Tc=9.4 min CN=72 Runoff=4.96 cfs 0.431 af
Subcatchment 2aS: Area 2A	Runoff Area=55,140 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=185' Tc=7.7 min CN=71 Runoff=2.04 cfs 0.165 af
Subcatchment 2bS: Area 2b	Runoff Area=204,120 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=160' Tc=8.4 min CN=71 Runoff=7.30 cfs 0.609 af
Subcatchment 3.1S: Area 3.1	Runoff Area=105,215 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=595' Tc=6.0 min CN=70 Runoff=3.98 cfs 0.300 af
Subcatchment 4.1S: Area 4.1	Runoff Area=621,690 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=1,390' Tc=12.6 min CN=70 Runoff=17.99 cfs 1.775 af
Subcatchment 4.2S: Area 4.2	Runoff Area=32,235 sf 100.00% Impervious Runoff Depth=4.00" Flow Length=40' Slope=0.0200 1/1' Tc=6.0 min CN=98 Runoff=3.07 cfs 0.247 af
Subcatchment 4.3S: Area 4.3	Runoff Area=292,890 sf 8.33% Impervious Runoff Depth=1.77" Flow Length=1,060' Tc=6.6 min CN=74 Runoff=13.27 cfs 0.994 af

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Page 165

Subcatchment 4.4S: Area 4.4	Runoff Area=72,240 sf 10.38% Impervious Runoff Depth=1.70" Flow Length=380' Tc=6.1 min CN=73 Runoff=3.18 cfs 0.235 af
Subcatchment 4.5S: Area 4.5	Runoff Area=46,440 sf 0.00% Impervious Runoff Depth=1.77" Flow Length=30' Slope=0.1250 1/' Tc=6.0 min CN=74 Runoff=2.15 cfs 0.158 af
Subcatchment 4.6S: Area-4.6	Runoff Area=155,010 sf 0.00% Impervious Runoff Depth=1.63" Flow Length=900' Slope=0.1000 1/' Tc=6.0 min CN=72 Runoff=6.52 cfs 0.484 af
Subcatchment 4.7S: Area-4.7	Runoff Area=110,150 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=320' Tc=6.8 min CN=71 Runoff=4.26 cfs 0.329 af
Subcatchment 4.8: Area-4.8	Runoff Area=1,585 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=100' Slope=0.2200 1/' Tc=12.0 min CN=70 Runoff=0.05 cfs 0.005 af
Subcatchment 5.1S: Area-5.1	Runoff Area=553,165 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=2,200' Tc=10.9 min CN=71 Runoff=18.01 cfs 1.652 af
Subcatchment 5.2S: Area-5.2	Runoff Area=147,335 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=695' Tc=9.9 min CN=71 Runoff=4.96 cfs 0.440 af
Subcatchment 5.3S: Area 5.3	Runoff Area=382,265 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=1,528' Tc=7.6 min CN=70 Runoff=13.47 cfs 1.091 af
Subcatchment 6.1S: Area 6.1	Runoff Area=8,000 sf 81.25% Impervious Runoff Depth=3.56" Tc=6.0 min CN=94 Runoff=0.72 cfs 0.054 af
Subcatchment 6.2S: Area 6.2	Runoff Area=8,000 sf 81.25% Impervious Runoff Depth=3.56" Tc=6.0 min CN=94 Runoff=0.72 cfs 0.054 af
Subcatchment 6.3S: Area 6.3	Runoff Area=8,000 sf 81.25% Impervious Runoff Depth=3.56" Tc=6.0 min CN=94 Runoff=0.72 cfs 0.054 af
Subcatchment 6.4S: AREA 6.1	Runoff Area=66,488 sf 0.00% Impervious Runoff Depth=1.17" Flow Length=380' Tc=6.0 min CN=65 Runoff=1.85 cfs 0.149 af
Subcatchment 7.1S: Area-7	Runoff Area=105,675 sf 0.00% Impervious Runoff Depth=1.17" Flow Length=150' Tc=6.0 min CN=65 Runoff=2.94 cfs 0.237 af
Subcatchment 8.10S: Area 8.10	Runoff Area=212,018 sf 8.40% Impervious Runoff Depth=1.77" Flow Length=762' Tc=6.5 min CN=74 Runoff=9.65 cfs 0.720 af
Subcatchment 8.11S: Area-8.11	Runoff Area=121,400 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=585' Tc=6.0 min CN=70 Runoff=4.59 cfs 0.347 af
Subcatchment 8.12S: Area 8.12	Runoff Area=27,016 sf 65.89% Impervious Runoff Depth=3.15" Flow Length=865' Tc=6.0 min CN=90 Runoff=2.23 cfs 0.163 af
Subcatchment 8.13S: Area 8.13	Runoff Area=26,292 sf 66.94% Impervious Runoff Depth=3.15" Flow Length=795' Tc=6.0 min CN=90 Runoff=2.17 cfs 0.158 af

Subcatchment 8.15S: Area 8.15	Runoff Area=94,118 sf 34.15% Impervious Runoff Depth=2.32" Flow Length=1,597' Tc=6.0 min CN=81 Runoff=5.84 cfs 0.419 af
Subcatchment 8.16S: Area 8.16	Runoff Area=20,576 sf 30.13% Impervious Runoff Depth=2.24" Tc=6.0 min CN=80 Runoff=1.23 cfs 0.088 af
Subcatchment 8.17S: Area 8.17	Runoff Area=102,463 sf 39.21% Impervious Runoff Depth=2.32" Flow Length=1,330' Tc=6.0 min CN=81 Runoff=6.36 cfs 0.456 af
Subcatchment 8.1S: Area-8.1	Runoff Area=225,775 sf 0.00% Impervious Runoff Depth=1.36" Flow Length=1,117' Tc=9.1 min CN=68 Runoff=6.56 cfs 0.587 af
Subcatchment 8.2S: Area 8.2	Runoff Area=100,400 sf 9.56% Impervious Runoff Depth=1.63" Flow Length=450' Slope=0.3000 '/' Tc=8.7 min CN=72 Runoff=3.68 cfs 0.313 af
Subcatchment 8.3S: Area 8.3	Runoff Area=49,890 sf 16.92% Impervious Runoff Depth=2.00" Flow Length=415' Slope=0.0300 '/' Tc=6.0 min CN=77 Runoff=2.64 cfs 0.191 af
Subcatchment 8.4S: Area 8.4	Runoff Area=224,571 sf 3.30% Impervious Runoff Depth=1.56" Flow Length=890' Tc=9.1 min CN=71 Runoff=7.72 cfs 0.671 af
Subcatchment 8.5S: Area-8.5	Runoff Area=655,085 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=1,768' Tc=31.2 min CN=70 Runoff=12.52 cfs 1.870 af
Subcatchment 8.6S: Area 8.6	Runoff Area=118,266 sf 28.55% Impervious Runoff Depth=2.16" Flow Length=737' Tc=11.3 min CN=79 Runoff=5.51 cfs 0.489 af
Subcatchment 8.7S: Area 8.7	Runoff Area=174,248 sf 32.50% Impervious Runoff Depth=2.24" Flow Length=910' Tc=8.5 min CN=80 Runoff=9.36 cfs 0.747 af
Subcatchment 8.8S: Area 8.8	Runoff Area=67,318 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=524' Slope=0.0850 '/' Tc=6.0 min CN=71 Runoff=2.69 cfs 0.201 af
Subcatchment 8.9S: Area 8.9	Runoff Area=31,465 sf 72.46% Impervious Runoff Depth=3.25" Flow Length=1,125' Tc=6.0 min CN=91 Runoff=2.66 cfs 0.195 af
Subcatchment 9.10S: Area 9.10	Runoff Area=317,221 sf 8.54% Impervious Runoff Depth=1.70" Flow Length=1,240' Slope=0.1000 '/' Tc=6.0 min UI Adjusted CN=73 Runoff=14.01 cfs 1.033 af
Subcatchment 9.11S: Area 9.11S	Runoff Area=126,900 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=975' Tc=12.6 min CN=71 Runoff=3.88 cfs 0.379 af
Subcatchment 9.12S: Area 9.12S	Runoff Area=29,060 sf 85.68% Impervious Runoff Depth=3.67" Flow Length=925' Tc=6.0 min CN=95 Runoff=2.66 cfs 0.204 af
Subcatchment 9.13S: Area 9.13	Runoff Area=49,485 sf 100.00% Impervious Runoff Depth=4.00" Flow Length=1,695' Tc=6.0 min CN=98 Runoff=4.71 cfs 0.379 af
Subcatchment 9.14S: Area 9.14	Runoff Area=241,600 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=890' Tc=8.3 min CN=70 Runoff=8.22 cfs 0.690 af

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Page 167

Subcatchment 9.1S: Area 9.1	Runoff Area=153,790 sf 2.99% Impervious Runoff Depth=1.36" Flow Length=760' Tc=7.3 min CN=68 Runoff=4.90 cfs 0.400 af
Subcatchment 9.5S: Area 9.5	Runoff Area=52,243 sf 12.06% Impervious Runoff Depth=1.56" Flow Length=412' Slope=0.2000 '/' Tc=8.7 min CN=71 Runoff=1.82 cfs 0.156 af
Subcatchment 9.6S: Area 9.6	Runoff Area=164,855 sf 10.81% Impervious Runoff Depth=1.85" Flow Length=543' Slope=0.1000 '/' Tc=6.0 min CN=75 Runoff=8.00 cfs 0.583 af
Subcatchment 9.9S: Area 9.9	Runoff Area=95,744 sf 0.00% Impervious Runoff Depth=1.63" Flow Length=300' Tc=6.0 min CN=72 Runoff=4.03 cfs 0.299 af
Subcatchment 11.10S: Area-11.10	Runoff Area=26,000 sf 65.96% Impervious Runoff Depth=3.15" Flow Length=220' Tc=6.0 min CN=90 Runoff=2.14 cfs 0.157 af
Subcatchment 11.11S: Area-11.11	Runoff Area=59,520 sf 60.26% Impervious Runoff Depth=2.95" Flow Length=497' Tc=6.0 min CN=88 Runoff=4.65 cfs 0.336 af
Subcatchment 11.12S: Area-11.12	Runoff Area=54,672 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=284' Tc=6.0 min CN=70 Runoff=2.07 cfs 0.156 af
Subcatchment 11.13S: Area-11.13	Runoff Area=10,160 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.97 cfs 0.078 af
Subcatchment 11.14S: Area-11.14	Runoff Area=195,163 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=520' Tc=11.6 min CN=71 Runoff=6.19 cfs 0.583 af
Subcatchment 11.15S: Area-11.15	Runoff Area=45,543 sf 0.00% Impervious Runoff Depth=1.77" Flow Length=836' Tc=13.5 min CN=74 Runoff=1.58 cfs 0.155 af
Subcatchment 11.16S: Area-11.16	Runoff Area=28,535 sf 58.70% Impervious Runoff Depth=2.95" Flow Length=690' Tc=6.0 min CN=88 Runoff=2.23 cfs 0.161 af
Subcatchment 11.17S: Area-11.17	Runoff Area=15,901 sf 78.17% Impervious Runoff Depth=3.45" Flow Length=520' Slope=0.0250 '/' Tc=6.0 min CN=93 Runoff=1.40 cfs 0.105 af
Subcatchment 11.18S: Area-11.18	Runoff Area=496,244 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=1,750' Tc=18.5 min CN=70 Runoff=12.19 cfs 1.417 af
Subcatchment 11.19S: Area-11.19	Runoff Area=365,755 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=2,586' Tc=21.6 min CN=70 Runoff=8.39 cfs 1.044 af
Subcatchment 11.20S: Area-11.20	Runoff Area=28,250 sf 0.00% Impervious Runoff Depth=1.43" Flow Length=497' Tc=6.0 min CN=69 Runoff=1.01 cfs 0.077 af
Subcatchment 11.21S: Area-11.21	Runoff Area=207,244 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=1,251' Tc=8.6 min CN=70 Runoff=6.85 cfs 0.592 af
Subcatchment 11.23S: Area 11.23	Runoff Area=49,500 sf 14.06% Impervious Runoff Depth=1.85" Flow Length=490' Tc=6.0 min CN=75 Runoff=2.40 cfs 0.175 af

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Page 168

Subcatchment 11.24S: Area 11.24	Runoff Area=25,034 sf 22.45% Impervious Runoff Depth=2.16" Flow Length=475' Tc=6.0 min CN=79 Runoff=1.44 cfs 0.103 af
Subcatchment 11.25S: Area 11.25	Runoff Area=68,850 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=455' Tc=8.6 min CN=71 Runoff=2.40 cfs 0.206 af
Subcatchment 11.26S: Area-11.26	Runoff Area=38,546 sf 67.49% Impervious Runoff Depth=3.15" Flow Length=490' Tc=6.0 min CN=90 Runoff=3.18 cfs 0.232 af
Subcatchment 11.27S: Area-11.27	Runoff Area=66,220 sf 70.97% Impervious Runoff Depth=3.25" Tc=6.0 min CN=91 Runoff=5.59 cfs 0.411 af
Subcatchment 11.28S: Area-11.28	Runoff Area=6,000 sf 100.00% Impervious Runoff Depth=4.00" Flow Length=20' Slope=0.0200 1/1' Tc=6.0 min CN=98 Runoff=0.57 cfs 0.046 af
Subcatchment 11.29S: Area 11.29	Runoff Area=21,107 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=195' Tc=6.0 min CN=71 Runoff=0.84 cfs 0.063 af
Subcatchment 11.2S: Area-11.2	Runoff Area=1,298,764 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=2,720' Tc=29.6 min CN=70 Runoff=25.58 cfs 3.708 af
Subcatchment 11.32S: Area-11.5	Runoff Area=236,106 sf 0.00% Impervious Runoff Depth=1.43" Flow Length=1,303' Tc=20.6 min CN=69 Runoff=5.23 cfs 0.644 af
Subcatchment 11.33S: Area-11.33	Runoff Area=115,090 sf 0.00% Impervious Runoff Depth=1.63" Flow Length=670' Tc=23.1 min CN=72 Runoff=2.83 cfs 0.359 af
Subcatchment 11.34S: Area-11.34	Runoff Area=56,117 sf 0.00% Impervious Runoff Depth=1.63" Flow Length=575' Tc=14.1 min CN=72 Runoff=1.73 cfs 0.175 af
Subcatchment 11.35S: Area-11.35	Runoff Area=23,266 sf 0.00% Impervious Runoff Depth=1.92" Flow Length=370' Slope=0.1500 1/1' Tc=6.0 min CN=76 Runoff=1.18 cfs 0.086 af
Subcatchment 11.36S: Area-11.36	Runoff Area=69,230 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=590' Tc=7.8 min CN=71 Runoff=2.55 cfs 0.207 af
Subcatchment 11.38S: Area-11.38	Runoff Area=14,250 sf 0.00% Impervious Runoff Depth=1.85" Flow Length=185' Slope=0.2500 1/1' Tc=6.0 min CN=75 Runoff=0.69 cfs 0.050 af
Subcatchment 11.39S: Area-11.39	Runoff Area=21,350 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=435' Tc=6.5 min CN=71 Runoff=0.84 cfs 0.064 af
Subcatchment 11.3S: Area-11.3	Runoff Area=2,817,597 sf 9.13% Impervious Runoff Depth=1.70" Flow Length=5,405' Tc=29.0 min CN=73 Runoff=65.25 cfs 9.174 af
Subcatchment 11.40S: Area-11.40	Runoff Area=43,800 sf 100.00% Impervious Runoff Depth=4.00" Flow Length=2,190' Tc=6.0 min CN=98 Runoff=4.17 cfs 0.336 af
Subcatchment 11.41S: Area-11.41	Runoff Area=77,380 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=355' Tc=7.3 min CN=71 Runoff=2.92 cfs 0.231 af

Subcatchment 11.4S: Area-11.4	Runoff Area=39,350 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=3.74 cfs 0.301 af
Subcatchment 11.5S: Area-11.5	Runoff Area=243,794 sf 0.00% Impervious Runoff Depth=1.43" Flow Length=950' Tc=9.4 min CN=69 Runoff=7.45 cfs 0.665 af
Subcatchment 11.6S: Area-11.6	Runoff Area=24,550 sf 0.00% Impervious Runoff Depth=1.56" Tc=6.0 min CN=71 Runoff=0.98 cfs 0.073 af
Subcatchment 11.7S: Area-11.7	Runoff Area=66,763 sf 0.00% Impervious Runoff Depth=1.63" Flow Length=810' Tc=6.0 min CN=72 Runoff=2.81 cfs 0.208 af
Subcatchment 11.8S: Area-11.8	Runoff Area=238,239 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=1,367' Tc=13.9 min CN=71 Runoff=7.01 cfs 0.711 af
Subcatchment 11.9S: Area-11.9	Runoff Area=87,870 sf 0.00% Impervious Runoff Depth=1.63" Flow Length=805' Tc=8.2 min CN=72 Runoff=3.35 cfs 0.274 af
Subcatchment 12.1S: Area-12.1	Runoff Area=555,875 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=1,995' Tc=37.6 min CN=70 Runoff=9.70 cfs 1.587 af
Subcatchment 12.2S: Area-12.2	Runoff Area=249,685 sf 14.15% Impervious Runoff Depth=1.92" Flow Length=480' Tc=9.5 min CN=76 Runoff=10.81 cfs 0.919 af
Subcatchment 12.3S: Area-12.3	Runoff Area=18,250 sf 100.00% Impervious Runoff Depth=4.00" Flow Length=380' Tc=6.0 min CN=98 Runoff=1.74 cfs 0.140 af
Reach 11.10R: Mountain stream	Avg. Flow Depth=0.37' Max Vel=7.87 fps Inflow=73.45 cfs 14.330 af n=0.040 L=393.0' S=0.1730 1/1 Capacity=3,320.07 cfs Outflow=73.22 cfs 14.330 af
Reach 11.3aR: Bouldery stream	Avg. Flow Depth=0.26' Max Vel=7.44 fps Inflow=28.58 cfs 4.412 af n=0.050 L=142.0' S=0.4014 1/1 Capacity=2,234.38 cfs Outflow=28.54 cfs 4.412 af
Reach 11.4aR: DP11.3	Avg. Flow Depth=0.54' Max Vel=10.53 fps Inflow=48.43 cfs 7.603 af n=0.050 L=220.0' S=0.3636 1/1 Capacity=858.32 cfs Outflow=48.36 cfs 7.603 af
Reach 11.4bR: DP11.4	Avg. Flow Depth=0.25' Max Vel=5.97 fps Inflow=2.48 cfs 2.630 af n=0.040 L=145.0' S=0.2621 1/1 Capacity=231.18 cfs Outflow=2.48 cfs 2.630 af
Reach 11.4R: DP-11.2	Avg. Flow Depth=0.66' Max Vel=7.66 fps Inflow=47.57 cfs 7.396 af n=0.050 L=267.0' S=0.1498 1/1 Capacity=575.36 cfs Outflow=47.48 cfs 7.396 af
Reach 11.5aR: DP11.5	Avg. Flow Depth=0.22' Max Vel=5.15 fps Inflow=1.77 cfs 0.280 af n=0.040 L=620.0' S=0.2323 1/1 Capacity=217.63 cfs Outflow=1.72 cfs 0.280 af
Reach 11.5R: Mountain stream	Avg. Flow Depth=0.42' Max Vel=7.65 fps Inflow=49.22 cfs 10.232 af n=0.050 L=455.0' S=0.2242 1/1 Capacity=2,943.05 cfs Outflow=48.97 cfs 10.232 af
Reach 11.6aR: Mountain stream	Avg. Flow Depth=0.56' Max Vel=11.85 fps Inflow=74.29 cfs 14.329 af n=0.050 L=245.0' S=0.4000 1/1 Capacity=3,987.80 cfs Outflow=74.16 cfs 14.329 af

Reach 11.6R: Mountain stream	Avg. Flow Depth=0.51' Max Vel=8.87 fps Inflow=50.23 cfs 10.512 af n=0.050 L=475.0' S=0.2505 1/1 Capacity=3,155.95 cfs Outflow=50.07 cfs 10.512 af
Reach 11.8R: Mountain stream	Avg. Flow Depth=0.48' Max Vel=9.89 fps Inflow=74.16 cfs 14.329 af n=0.050 L=360.0' S=0.3139 1/1 Capacity=13,400.37 cfs Outflow=73.63 cfs 14.330 af
Reach DP-1: Design Point-1	Avg. Flow Depth=0.65' Max Vel=9.83 fps Inflow=49.28 cfs 9.964 af n=0.040 L=10.0' S=0.1500 1/1 Capacity=670.80 cfs Outflow=49.26 cfs 9.964 af
Reach DP-11: Design Point-11	Inflow=137.69 cfs 23.649 af Outflow=137.69 cfs 23.649 af
Reach DP-12: Design Point-12	Avg. Flow Depth=0.37' Max Vel=7.50 fps Inflow=10.03 cfs 2.769 af n=0.040 L=10.0' S=0.2000 1/1 Capacity=128.70 cfs Outflow=10.03 cfs 2.769 af
Reach DP-1a: Design Point-1a	Avg. Flow Depth=0.23' Max Vel=3.77 fps Inflow=3.35 cfs 2.457 af n=0.040 L=10.0' S=0.1000 1/1 Capacity=97.10 cfs Outflow=3.35 cfs 2.457 af
Reach DP-2: Design Point-2	Avg. Flow Depth=0.42' Max Vel=8.58 fps Inflow=18.95 cfs 4.956 af n=0.040 L=10.0' S=0.2000 1/1 Capacity=233.42 cfs Outflow=18.94 cfs 4.956 af
Reach DP-2a: Design Point-2a	Inflow=2.04 cfs 0.165 af Outflow=2.04 cfs 0.165 af
Reach DP-2b: Design Point-2b	Inflow=7.30 cfs 0.609 af Outflow=7.30 cfs 0.609 af
Reach DP-3: Design Point-3	Avg. Flow Depth=0.28' Max Vel=8.44 fps Inflow=3.98 cfs 0.300 af n=0.040 L=150.0' S=0.4000 1/1 Capacity=79.12 cfs Outflow=3.93 cfs 0.300 af
Reach DP-4: Design Point-4	Avg. Flow Depth=0.28' Max Vel=7.64 fps Inflow=13.43 cfs 4.963 af n=0.050 L=10.0' S=0.4000 1/1 Capacity=768.66 cfs Outflow=13.43 cfs 4.963 af
Reach DP-5: Design Point-5	Avg. Flow Depth=0.86' Max Vel=9.57 fps Inflow=34.93 cfs 3.294 af n=0.035 L=10.0' S=0.1000 1/1 Capacity=273.11 cfs Outflow=34.90 cfs 3.294 af
Reach DP-6: Design Point 6	Inflow=1.91 cfs 0.312 af Outflow=1.91 cfs 0.312 af
Reach DP-7: Design Point-7	Inflow=2.94 cfs 0.237 af Outflow=2.94 cfs 0.237 af
Reach DP-8: Design Point-8	Avg. Flow Depth=0.70' Max Vel=7.46 fps Inflow=22.18 cfs 7.728 af n=0.040 L=10.0' S=0.1000 1/1 Capacity=277.01 cfs Outflow=22.17 cfs 7.728 af
Reach DP-9: Design Point-9	Avg. Flow Depth=0.87' Max Vel=7.98 fps Inflow=20.22 cfs 4.662 af n=0.040 L=100.0' S=0.1000 1/1 Capacity=152.56 cfs Outflow=20.01 cfs 4.662 af
Reach R1.1: Mountain Stream	Avg. Flow Depth=0.45' Max Vel=7.61 fps Inflow=39.56 cfs 4.496 af n=0.040 L=805.0' S=0.1342 1/1 Capacity=1,947.63 cfs Outflow=38.82 cfs 4.496 af

Reach R1.12: WETLAND	Avg. Flow Depth=0.04' Max Vel=3.90 fps Inflow=3.21 cfs 2.350 af n=0.035 L=200.0' S=0.6000 1/' Capacity=206.27 cfs Outflow=3.21 cfs 2.350 af
Reach R1.2: Mountain Stream	Avg. Flow Depth=0.70' Max Vel=9.62 fps Inflow=41.80 cfs 4.901 af n=0.040 L=616.0' S=0.1461 1/' Capacity=636.66 cfs Outflow=41.13 cfs 4.901 af
Reach R1.8: WETLAND	Avg. Flow Depth=0.11' Max Vel=2.66 fps Inflow=5.74 cfs 0.546 af n=0.070 L=120.0' S=0.3083 1/' Capacity=73.93 cfs Outflow=5.48 cfs 0.546 af
Reach R11.1: DP11.6	Avg. Flow Depth=0.43' Max Vel=3.83 fps Inflow=6.55 cfs 0.821 af n=0.070 L=310.0' S=0.1742 1/' Capacity=102.63 cfs Outflow=6.35 cfs 0.821 af
Reach R11.12: Mountain stream	Avg. Flow Depth=0.39' Max Vel=9.29 fps Inflow=6.86 cfs 0.638 af n=0.040 L=200.0' S=0.3350 1/' Capacity=678.27 cfs Outflow=6.82 cfs 0.638 af
Reach R11.13: Mountain stream	Avg. Flow Depth=0.34' Max Vel=6.34 fps Inflow=25.58 cfs 3.708 af n=0.050 L=220.0' S=0.2045 1/' Capacity=4,439.64 cfs Outflow=25.52 cfs 3.708 af
Reach R11.14: Mountain stream	Avg. Flow Depth=0.09' Max Vel=3.25 fps Inflow=1.01 cfs 0.077 af n=0.040 L=140.0' S=0.2071 1/' Capacity=989.43 cfs Outflow=0.96 cfs 0.077 af
Reach R11.16: SWALE	Avg. Flow Depth=0.64' Max Vel=7.19 fps Inflow=12.21 cfs 1.451 af n=0.040 L=450.0' S=0.1111 1/' Capacity=160.81 cfs Outflow=12.05 cfs 1.451 af
Reach R11.1A: DP11.7	Avg. Flow Depth=0.63' Max Vel=8.57 fps Inflow=26.18 cfs 3.817 af n=0.040 L=950.0' S=0.1884 1/' Capacity=186.80 cfs Outflow=25.74 cfs 3.817 af
Reach R11.1B: Mountain stream	Avg. Flow Depth=0.29' Max Vel=6.42 fps Inflow=6.20 cfs 0.610 af n=0.040 L=200.0' S=0.2500 1/' Capacity=215.17 cfs Outflow=6.06 cfs 0.610 af
Reach R11.25: SWALE	Avg. Flow Depth=0.80' Max Vel=5.57 fps Inflow=15.98 cfs 1.855 af n=0.040 L=350.0' S=0.0543 1/' Capacity=110.44 cfs Outflow=15.85 cfs 1.855 af
Reach R11.27: Overland	Avg. Flow Depth=0.06' Max Vel=2.92 fps Inflow=17.40 cfs 2.009 af n=0.035 L=640.0' S=0.2156 1/' Capacity=620.34 cfs Outflow=16.51 cfs 2.009 af
Reach R11.30: SWALE	Avg. Flow Depth=0.25' Max Vel=1.22 fps Inflow=0.78 cfs 0.342 af n=0.040 L=325.0' S=0.0092 1/' Capacity=24.23 cfs Outflow=0.75 cfs 0.342 af
Reach R11.31: SWALE	Avg. Flow Depth=0.26' Max Vel=2.57 fps Inflow=1.76 cfs 0.175 af n=0.040 L=140.0' S=0.0393 1/' Capacity=49.99 cfs Outflow=1.67 cfs 0.175 af
Reach R11.33: Bouldery stream	Avg. Flow Depth=0.31' Max Vel=5.16 fps Inflow=12.74 cfs 1.940 af n=0.050 L=190.0' S=0.1579 1/' Capacity=454.15 cfs Outflow=12.66 cfs 1.940 af
Reach R11.37: SWALE	Avg. Flow Depth=0.70' Max Vel=7.14 fps Inflow=13.58 cfs 1.580 af n=0.040 L=600.0' S=0.1000 1/' Capacity=96.77 cfs Outflow=13.36 cfs 1.580 af
Reach R11.38: Wetland	Avg. Flow Depth=0.08' Max Vel=0.34 fps Inflow=0.75 cfs 0.342 af n=0.100 L=306.0' S=0.0163 1/' Capacity=14.90 cfs Outflow=0.67 cfs 0.342 af

Reach R11.39: SWALE	Avg. Flow Depth=0.14' Max Vel=2.61 fps Inflow=0.77 cfs 0.411 af n=0.040 L=310.0' S=0.0806 1/' Capacity=49.35 cfs Outflow=0.76 cfs 0.411 af
Reach R11.40: SWALE	Avg. Flow Depth=0.23' Max Vel=6.82 fps Inflow=3.74 cfs 0.301 af n=0.040 L=310.0' S=0.3226 1/' Capacity=143.25 cfs Outflow=3.59 cfs 0.301 af
Reach R2.7: SWALE	Avg. Flow Depth=0.49' Max Vel=3.18 fps Inflow=5.40 cfs 0.565 af n=0.040 L=705.0' S=0.0298 1/' Capacity=81.81 cfs Outflow=4.55 cfs 0.565 af
Reach R3.1: SWALE	Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0.000 af n=0.040 L=420.0' S=0.2381 1/' Capacity=123.06 cfs Outflow=0.00 cfs 0.000 af
Reach R4.2: SWALE	Avg. Flow Depth=0.39' Max Vel=7.59 fps Inflow=19.87 cfs 2.217 af n=0.040 L=350.0' S=0.1771 1/' Capacity=219.76 cfs Outflow=19.63 cfs 2.217 af
Reach R4.5: swale	Avg. Flow Depth=0.65' Max Vel=7.15 fps Inflow=12.43 cfs 4.629 af n=0.040 L=560.0' S=0.1071 1/' Capacity=100.17 cfs Outflow=12.35 cfs 4.629 af
Reach R4.7: swale	Avg. Flow Depth=0.41' Max Vel=11.61 fps Inflow=13.42 cfs 4.958 af n=0.040 L=60.0' S=0.4833 1/' Capacity=329.55 cfs Outflow=13.41 cfs 4.958 af
Reach R5.2: SWALE	Avg. Flow Depth=0.65' Max Vel=7.51 fps Inflow=13.47 cfs 1.091 af n=0.040 L=640.0' S=0.1187 1/' Capacity=105.45 cfs Outflow=12.58 cfs 1.091 af
Reach R5.3: SWALE	Avg. Flow Depth=0.92' Max Vel=4.95 fps Inflow=17.56 cfs 1.642 af n=0.040 L=187.0' S=0.0374 1/' Capacity=151.95 cfs Outflow=16.92 cfs 1.642 af
Reach R8.16: SWALE	Avg. Flow Depth=0.42' Max Vel=8.44 fps Inflow=17.40 cfs 1.821 af n=0.040 L=315.0' S=0.2159 1/' Capacity=178.88 cfs Outflow=16.73 cfs 1.821 af
Reach R8.17: SWALE	Avg. Flow Depth=0.45' Max Vel=8.70 fps Inflow=18.83 cfs 2.012 af n=0.040 L=280.0' S=0.2107 1/' Capacity=176.73 cfs Outflow=18.74 cfs 2.012 af
Reach R8.18: Mountain stream	Avg. Flow Depth=0.68' Max Vel=4.72 fps Inflow=12.59 cfs 1.970 af n=0.080 L=870.0' S=0.1736 1/' Capacity=109.52 cfs Outflow=12.47 cfs 1.970 af
Reach R8.2: SWALE	Avg. Flow Depth=0.44' Max Vel=4.72 fps Inflow=5.12 cfs 0.489 af n=0.040 L=407.0' S=0.0713 1/' Capacity=46.39 cfs Outflow=4.97 cfs 0.489 af
Reach R8.21: SWALE	Avg. Flow Depth=0.46' Max Vel=10.19 fps Inflow=24.07 cfs 2.447 af n=0.040 L=520.0' S=0.2788 1/' Capacity=203.30 cfs Outflow=23.08 cfs 2.447 af
Reach R8.4: SWALE	Avg. Flow Depth=0.69' Max Vel=6.64 fps Inflow=12.41 cfs 1.236 af n=0.040 L=525.0' S=0.0876 1/' Capacity=51.44 cfs Outflow=12.15 cfs 1.236 af
Reach R8.6: SWALE	Avg. Flow Depth=0.68' Max Vel=7.59 fps Inflow=13.86 cfs 1.517 af n=0.040 L=345.0' S=0.1159 1/' Capacity=59.17 cfs Outflow=13.73 cfs 1.517 af
Reach R9.10: Swale	Avg. Flow Depth=0.24' Max Vel=3.54 fps Inflow=2.08 cfs 2.351 af n=0.040 L=170.0' S=0.0824 1/' Capacity=136.03 cfs Outflow=2.08 cfs 2.351 af

Reach R9.2: Swale	Avg. Flow Depth=0.45' Max Vel=5.57 fps Inflow=8.22 cfs 0.690 af n=0.040 L=1,250.0' S=0.1016 1/8" Capacity=80.39 cfs Outflow=7.18 cfs 0.690 af
Reach R9.3: Swale	Avg. Flow Depth=0.67' Max Vel=7.28 fps Inflow=17.14 cfs 1.830 af n=0.040 L=1,000.0' S=0.1120 1/8" Capacity=158.64 cfs Outflow=16.11 cfs 1.830 af
Reach R9.4: Swale	Avg. Flow Depth=0.53' Max Vel=5.99 fps Inflow=10.22 cfs 1.096 af n=0.040 L=540.0' S=0.0981 1/8" Capacity=148.51 cfs Outflow=9.67 cfs 1.096 af
Pond 6.2P: BIORETENTION	Peak Elev=1,686.56' Storage=1,640 cf Inflow=0.72 cfs 0.054 af Outflow=0.23 cfs 0.054 af
Pond 6.3P: BIORETENTION	Peak Elev=1,686.56' Storage=1,640 cf Inflow=0.72 cfs 0.054 af Outflow=0.23 cfs 0.054 af
Pond 11.3R: DP11.1	Peak Elev=2,412.32' Storage=723 cf Inflow=28.59 cfs 4.419 af 72.0" Round Culvert x 2.00 n=0.025 L=120.0' S=0.1333 1/8" Outflow=28.58 cfs 4.412 af
Pond 11.7R: Culvert	Peak Elev=1,893.50' Inflow=74.16 cfs 14.329 af Outflow=74.16 cfs 14.329 af
Pond 11.9R: Culvert	Peak Elev=1,775.44' Storage=2,067 cf Inflow=73.63 cfs 14.330 af Outflow=73.45 cfs 14.330 af
Pond P1.1: Pond 1.1	Peak Elev=2,162.56' Storage=69,458 cf Inflow=21.57 cfs 2.351 af Outflow=3.21 cfs 2.350 af
Pond P1.2: BIORETENTION	Peak Elev=2,227.56' Storage=3,234 cf Inflow=0.94 cfs 0.070 af Outflow=0.18 cfs 0.070 af
Pond P1.3: Pond 1.3	Peak Elev=2,167.75' Storage=112,490 cf Inflow=26.30 cfs 3.935 af Outflow=4.46 cfs 3.931 af
Pond P1.4: BIORETENTION	Peak Elev=2,214.61' Storage=15,533 cf Inflow=4.26 cfs 0.340 af Outflow=0.51 cfs 0.340 af
Pond P11.1: P-1	Peak Elev=2,301.78' Storage=73,587 cf Inflow=18.70 cfs 2.546 af Outflow=2.41 cfs 2.544 af
Pond P11.10: DRY SWALE	Peak Elev=2,193.19' Storage=1,788 cf Inflow=2.40 cfs 0.175 af Outflow=1.76 cfs 0.175 af
Pond P11.11: BIORETENTION	Peak Elev=2,182.71' Storage=6,649 cf Inflow=2.17 cfs 0.238 af Outflow=0.47 cfs 0.238 af
Pond P11.12: BIORETENTION	Peak Elev=2,425.52' Storage=8,400 cf Inflow=4.65 cfs 0.336 af Outflow=3.69 cfs 0.344 af
Pond P11.14: BIORETENTION	Peak Elev=2,411.65' Storage=6,786 cf Inflow=2.14 cfs 0.157 af Outflow=0.36 cfs 0.157 af

Pond P11.2: BIORETENTION	Peak Elev=2,372.68' Storage=18,039 cf Inflow=5.65 cfs 0.458 af Outflow=0.93 cfs 0.458 af
Pond P11.4: BIORETENTION	Peak Elev=2,458.65' Storage=18,571 cf Inflow=5.59 cfs 0.411 af Outflow=0.77 cfs 0.411 af
Pond P11.6: DRY SWALE	Peak Elev=2,483.03' Storage=1,057 cf Inflow=0.57 cfs 0.046 af Outflow=0.13 cfs 0.046 af
Pond P11.7: BIORETENTION	Peak Elev=2,248.63' Storage=7,518 cf Inflow=2.23 cfs 0.161 af Outflow=0.29 cfs 0.161 af
Pond P11.8: BIORETENTION	Peak Elev=2,260.60' Storage=4,995 cf Inflow=1.40 cfs 0.105 af Outflow=0.19 cfs 0.105 af
Pond P11.9: BIORETENTION	Peak Elev=2,219.56' Storage=3,260 cf Inflow=1.44 cfs 0.103 af Outflow=0.49 cfs 0.103 af
Pond P12.1: Pond 12.1	Peak Elev=2,298.96' Storage=41,156 cf Inflow=12.21 cfs 1.185 af Outflow=0.82 cfs 1.182 af
Pond P2.1: Pond 2.1	Peak Elev=2,186.03' Storage=83,543 cf Inflow=23.65 cfs 2.620 af Outflow=2.59 cfs 2.615 af
Pond P4.1: P-1	Peak Elev=2,188.56' Storage=100,354 cf Inflow=33.40 cfs 4.148 af Primary=10.97 cfs 4.146 af Secondary=0.00 cfs 0.000 af Outflow=10.97 cfs 4.146 af
Pond P6.1: BIORETENTION	Peak Elev=1,686.56' Storage=1,640 cf Inflow=0.72 cfs 0.054 af Outflow=0.23 cfs 0.054 af
Pond P8.1: DRY SWALE	Peak Elev=2,309.38' Storage=2,405 cf Inflow=5.51 cfs 0.489 af Outflow=5.12 cfs 0.489 af
Pond P8.2: P-3	Peak Elev=1,682.25' Storage=61,936 cf Inflow=22.31 cfs 2.325 af Outflow=6.61 cfs 2.324 af
Pond P8.3: DRY SWALE	Peak Elev=1,756.21' Storage=1,776 cf Inflow=2.64 cfs 0.191 af Outflow=2.12 cfs 0.191 af
Pond P8.4: P-3	Peak Elev=1,668.97' Storage=87,887 cf Inflow=26.76 cfs 2.820 af Primary=3.25 cfs 2.820 af Secondary=0.00 cfs 0.000 af Outflow=3.25 cfs 2.820 af
Pond P8.5: I-2	Peak Elev=1,678.17' Storage=12,547 cf Inflow=6.36 cfs 0.456 af Discarded=0.18 cfs 0.456 af Primary=0.00 cfs 0.000 af Outflow=0.18 cfs 0.456 af
Pond P9.2: Pond 9.2	Peak Elev=1,672.88' Storage=74,917 cf Inflow=22.35 cfs 2.352 af Outflow=2.08 cfs 2.351 af
Pond R1.10: PIPE	Peak Elev=2,261.91' Inflow=22.30 cfs 3.048 af 36.0" Round Culvert n=0.020 L=1,125.0' S=0.0667 '/' Outflow=22.30 cfs 3.048 af

Pond R1.11: Pipe	Peak Elev=2,191.72' Inflow=22.98 cfs 3.216 af 48.0" Round Culvert n=0.020 L=230.0' S=0.0435 '/ Outflow=22.98 cfs 3.216 af
Pond R1.3: Culvert	Peak Elev=2,401.47' Inflow=12.58 cfs 1.335 af 36.0" Round Culvert n=0.013 L=1,255.0' S=0.0653 '/ Outflow=12.58 cfs 1.335 af
Pond R1.4: pipe	Peak Elev=2,301.37' Inflow=12.58 cfs 1.335 af 36.0" Round Culvert n=0.020 L=950.0' S=0.0926 '/ Outflow=12.58 cfs 1.335 af
Pond R1.5: Pipe	Peak Elev=2,196.51' Inflow=14.84 cfs 1.621 af 36.0" Round Culvert n=0.020 L=120.0' S=0.1250 '/ Outflow=14.84 cfs 1.621 af
Pond R1.6: pipe	Peak Elev=2,208.09' Inflow=3.69 cfs 0.286 af 24.0" Round Culvert n=0.020 L=260.0' S=0.0050 '/ Outflow=3.69 cfs 0.286 af
Pond R1.7: Culvert	Peak Elev=2,206.50' Inflow=5.74 cfs 0.546 af 60.0" x 36.0" Box Culvert n=0.013 L=50.0' S=0.0200 '/ Outflow=5.74 cfs 0.546 af
Pond R1.9: PIPE	Peak Elev=2,296.72' Inflow=18.73 cfs 2.307 af 36.0" Round Culvert n=0.020 L=350.0' S=0.0943 '/ Outflow=18.73 cfs 2.307 af
Pond R11.11: CULVERT	Peak Elev=2,479.05' Inflow=6.85 cfs 0.592 af 30.0" Round Culvert n=0.020 L=35.0' S=0.2857 '/ Outflow=6.85 cfs 0.592 af
Pond R11.15: CB	Peak Elev=2,453.56' Inflow=12.21 cfs 1.451 af 36.0" Round Culvert n=0.020 L=110.0' S=0.0091 '/ Outflow=12.21 cfs 1.451 af
Pond R11.17: CB	Peak Elev=2,436.31' Inflow=11.56 cfs 1.372 af 36.0" Round Culvert n=0.020 L=290.0' S=0.0862 '/ Outflow=11.56 cfs 1.372 af
Pond R11.19: CB	Peak Elev=2,420.76' Inflow=4.14 cfs 0.310 af 36.0" Round Culvert n=0.020 L=290.0' S=0.0862 '/ Outflow=4.14 cfs 0.310 af
Pond R11.20: CULVERT	Peak Elev=2,460.07' Inflow=7.01 cfs 0.711 af 30.0" Round Culvert n=0.020 L=900.0' S=0.0722 '/ Outflow=7.01 cfs 0.711 af
Pond R11.21: CULVERT	Peak Elev=2,395.41' Inflow=13.15 cfs 1.522 af 36.0" Round Culvert n=0.020 L=900.0' S=0.0733 '/ Outflow=13.15 cfs 1.522 af
Pond R11.22: CB	Peak Elev=2,460.39' Inflow=0.97 cfs 0.078 af 36.0" Round Culvert n=0.020 L=770.0' S=0.0130 '/ Outflow=0.97 cfs 0.078 af
Pond R11.24: CB	Peak Elev=2,487.01' Inflow=5.58 cfs 0.707 af 30.0" Round Culvert n=0.020 L=695.0' S=0.0719 '/ Outflow=5.58 cfs 0.707 af
Pond R11.26: BOX CULVERT	Peak Elev=2,311.15' Inflow=17.40 cfs 2.009 af 60.0" x 36.0" Box Culvert n=0.020 L=50.0' S=0.0200 '/ Outflow=17.40 cfs 2.009 af
Pond R11.32: CULVERT	Peak Elev=2,435.56' Inflow=12.49 cfs 1.528 af 36.0" Round Culvert n=0.020 L=110.0' S=0.0818 '/ Outflow=12.49 cfs 1.528 af

Pond R12.1: CB	Peak Elev=2,309.92'	Inflow=1.74 cfs	0.140 af
	24.0" Round Culvert n=0.020 L=630.0' S=0.0100 '/'	Outflow=1.74 cfs	0.140 af
Pond R2.1: PIPE	Peak Elev=2,288.97'	Inflow=6.62 cfs	0.753 af
	36.0" Round Culvert n=0.020 L=1,185.0' S=0.0616 '/'	Outflow=6.62 cfs	0.753 af
Pond R2.2: PIPE	Peak Elev=2,214.21'	Inflow=10.02 cfs	1.242 af
	36.0" Round Culvert n=0.020 L=795.0' S=0.0289 '/'	Outflow=10.02 cfs	1.242 af
Pond R2.3: catch basin	Peak Elev=2,265.24'	Inflow=7.79 cfs	0.820 af
		Outflow=7.79 cfs	0.820 af
Pond R2.5: Road culvert	Peak Elev=2,229.83'	Inflow=4.38 cfs	0.458 af
	36.0" Round Culvert n=0.020 L=75.0' S=0.0400 '/'	Outflow=4.38 cfs	0.458 af
Pond R2.6: Road Culvert	Peak Elev=2,216.48'	Inflow=1.02 cfs	0.107 af
	18.0" Round Culvert n=0.020 L=30.0' S=0.0333 '/'	Outflow=1.02 cfs	0.107 af
Pond R2.8: cb	Peak Elev=2,188.15'	Inflow=9.04 cfs	1.210 af
	36.0" Round Culvert n=0.020 L=450.0' S=0.0600 '/'	Outflow=9.04 cfs	1.210 af
Pond R4.1: catch basin	Peak Elev=2,288.72'	Inflow=19.87 cfs	2.217 af
		Outflow=19.87 cfs	2.217 af
Pond R4.3: culvert	Peak Elev=2,210.02'	Inflow=21.60 cfs	2.537 af
		Outflow=21.60 cfs	2.537 af
Pond R4.4: CULVERT	Peak Elev=2,182.16'	Inflow=10.97 cfs	4.146 af
	36.0" Round Culvert n=0.020 L=580.0' S=0.1962 '/'	Outflow=10.97 cfs	4.146 af
Pond R4.6: CULVERT	Peak Elev=2,005.53'	Inflow=13.42 cfs	4.958 af
	36.0" Round Culvert n=0.020 L=50.0' S=0.0200 '/'	Outflow=13.42 cfs	4.958 af
Pond R4.8: CULVERT	Peak Elev=2,093.20'	Inflow=6.52 cfs	0.484 af
	24.0" Round Culvert n=0.020 L=150.0' S=0.1667 '/'	Outflow=6.52 cfs	0.484 af
Pond R5.1: CULVERT	Peak Elev=1,905.59'	Inflow=13.47 cfs	1.091 af
	33.0" Round Culvert n=0.020 L=810.0' S=0.1000 '/'	Outflow=13.47 cfs	1.091 af
Pond R8.1: CULVERT	Peak Elev=2,309.05'	Inflow=5.12 cfs	0.489 af
	24.0" Round Culvert n=0.020 L=275.0' S=0.0145 '/'	Outflow=5.12 cfs	0.489 af
Pond R8.10: CB	Peak Elev=1,977.93'	Inflow=27.06 cfs	2.968 af
	45.0" Round Culvert n=0.020 L=765.0' S=0.1007 '/'	Outflow=27.06 cfs	2.968 af
Pond R8.12: CULVERT	Peak Elev=1,903.21'	Inflow=7.75 cfs	0.766 af
	30.0" Round Culvert n=0.020 L=40.0' S=0.0750 '/'	Outflow=7.75 cfs	0.766 af
Pond R8.13: CB	Peak Elev=1,898.17'	Inflow=34.75 cfs	3.734 af
	48.0" Round Culvert n=0.020 L=835.0' S=0.0862 '/'	Outflow=34.75 cfs	3.734 af

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Page 177

Pond R8.15: CB Peak Elev=1,822.76' Inflow=41.47 cfs 4.268 af
Primary=24.07 cfs 2.447 af Secondary=17.40 cfs 1.821 af Outflow=41.47 cfs 4.268 af

Pond R8.20: PIPE Peak Elev=1,817.41' Inflow=24.07 cfs 2.447 af
42.0" Round Culvert n=0.020 L=220.0' S=0.0045 '/ Outflow=24.07 cfs 2.447 af

Pond R8.22: New Culvert Peak Elev=1,664.66' Inflow=22.18 cfs 7.728 af
Outflow=22.18 cfs 7.728 af

Pond R8.3: CULVERT Peak Elev=2,273.46' Inflow=12.41 cfs 1.236 af
Outflow=12.41 cfs 1.236 af

Pond R8.5: CULVERT Peak Elev=2,223.56' Inflow=13.86 cfs 1.517 af
Outflow=13.86 cfs 1.517 af

Pond R8.7: CULVERT Peak Elev=2,179.82' Inflow=20.56 cfs 2.452 af
42.0" Round Culvert n=0.020 L=200.0' S=0.0750 '/ Outflow=20.56 cfs 2.452 af

Pond R8.8: CB Peak Elev=2,161.79' Inflow=22.56 cfs 2.647 af
42.0" Round Culvert n=0.020 L=880.0' S=0.0943 '/ Outflow=22.56 cfs 2.647 af

Pond R8.9: CB Peak Elev=2,075.90' Inflow=25.04 cfs 2.810 af
42.0" Round Culvert n=0.020 L=900.0' S=0.1056 '/ Outflow=25.04 cfs 2.810 af

Pond R9.1: pipes Peak Elev=1,817.02' Inflow=5.71 cfs 0.717 af
Outflow=5.71 cfs 0.717 af

Pond R9.11: Culvert Peak Elev=1,659.60' Inflow=16.52 cfs 4.181 af
36.0" Round Culvert n=0.020 L=50.0' S=0.0400 '/ Outflow=16.52 cfs 4.181 af

Pond R9.2A: Culvert Peak Elev=1,773.46' Inflow=17.14 cfs 1.830 af
48.0" Round Culvert n=0.020 L=40.0' S=0.0500 '/ Outflow=17.14 cfs 1.830 af

Pond R9.5: Culvert Peak Elev=1,714.95' Inflow=8.07 cfs 0.771 af
54.0" Round Culvert n=0.020 L=60.0' S=0.0667 '/ Outflow=8.07 cfs 0.771 af

Pond R9.6: Culvert Peak Elev=1,684.62' Inflow=1.83 cfs 0.187 af
18.0" Round Culvert n=0.020 L=100.0' S=0.0200 '/ Outflow=1.83 cfs 0.187 af

ck_Windham\08077HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.1~Link 1.1L.hce Inflow=0.09 cfs 0.092 af
Area= 0.275 ac 100.00% Imperv. Primary=0.09 cfs 0.092 af

ck_Windham\08077HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.2~Link 1.2L.hce Inflow=0.08 cfs 0.088 af
Area= 0.264 ac 100.00% Imperv. Primary=0.08 cfs 0.088 af

ck_Windham\08077HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.3~Link 1.3L.hce Inflow=0.10 cfs 0.050 af
Area= 0.149 ac 100.00% Imperv. Primary=0.10 cfs 0.050 af

ck_Windham\08077HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.4~Link 1.4L.hce Inflow=0.05 cfs 0.054 af
Area= 0.161 ac 100.00% Imperv. Primary=0.05 cfs 0.054 af

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Page 178

ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.5~Link 1.5L.hce	Inflow=0.15 cfs	0.165 af	Area= 0.494 ac	100.00% Imperv.	Primary=0.15 cfs	0.165 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.6~Link 1.6L.hce	Inflow=0.13 cfs	0.126 af	Area= 0.379 ac	100.00% Imperv.	Primary=0.13 cfs	0.126 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.9~Link 1.9L.hce	Inflow=0.30 cfs	0.176 af	Area= 0.528 ac	100.00% Imperv.	Primary=0.30 cfs	0.176 af
_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.10~Link 2.10L.hce	Inflow=0.23 cfs	0.188 af	Area= 0.562 ac	100.00% Imperv.	Primary=0.23 cfs	0.188 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.1~Link 2.1L.hce	Inflow=0.05 cfs	0.038 af	Area= 0.115 ac	100.00% Imperv.	Primary=0.05 cfs	0.038 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.3~Link 2.3L.hce	Inflow=0.07 cfs	0.080 af	Area= 0.241 ac	100.00% Imperv.	Primary=0.07 cfs	0.080 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.6~Link 2.6L.hce	Inflow=0.12 cfs	0.134 af	Area= 0.402 ac	100.00% Imperv.	Primary=0.12 cfs	0.134 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.7~Link 2.7L.hce	Inflow=0.12 cfs	0.134 af	Area= 0.402 ac	100.00% Imperv.	Primary=0.12 cfs	0.134 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.8~Link 2.8L.hce	Inflow=0.03 cfs	0.031 af	Area= 0.092 ac	100.00% Imperv.	Primary=0.03 cfs	0.031 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.9~Link 2.9L.hce	Inflow=0.19 cfs	0.215 af	Area= 0.643 ac	100.00% Imperv.	Primary=0.19 cfs	0.215 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 4.1~Link 4.1L.hce	Inflow=0.18 cfs	0.195 af	Area= 0.585 ac	100.00% Imperv.	Primary=0.18 cfs	0.195 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 4.3~Link 4.3L.hce	Inflow=0.41 cfs	0.460 af	Area= 1.377 ac	100.00% Imperv.	Primary=0.41 cfs	0.460 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 4.4~Link 4.4L.hce	Inflow=0.08 cfs	0.084 af	Area= 0.253 ac	100.00% Imperv.	Primary=0.08 cfs	0.084 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 5.2~Link 5.2L.hce	Inflow=0.10 cfs	0.111 af	Area= 0.333 ac	100.00% Imperv.	Primary=0.10 cfs	0.111 af
_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.10~Link 8.10L.hce	Inflow=0.19 cfs	0.215 af	Area= 0.643 ac	100.00% Imperv.	Primary=0.19 cfs	0.215 af
_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.11~Link 8.11L.hce	Inflow=0.02 cfs	0.027 af	Area= 0.080 ac	100.00% Imperv.	Primary=0.02 cfs	0.027 af
_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.15~Link 8.15L.hce	Inflow=0.02 cfs	0.027 af	Area= 0.080 ac	100.00% Imperv.	Primary=0.02 cfs	0.027 af

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Page 179

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.1~Link 8.1L.hce Inflow=0.02 cfs 0.027 af
Area= 0.080 ac 100.00% Imperv. Primary=0.02 cfs 0.027 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.4~Link 8.4L.hce Inflow=0.10 cfs 0.096 af
Area= 0.287 ac 100.00% Imperv. Primary=0.10 cfs 0.096 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.5~Link 8.5L.hce Inflow=0.11 cfs 0.100 af
Area= 0.298 ac 100.00% Imperv. Primary=0.11 cfs 0.100 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.8~Link 8.8L.hce Inflow=0.07 cfs 0.080 af
Area= 0.241 ac 100.00% Imperv. Primary=0.07 cfs 0.080 af

_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 9.10~Link 9.10L.hce Inflow=0.09 cfs 0.107 af
Area= 0.321 ac 100.00% Imperv. Primary=0.09 cfs 0.107 af

_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 9.11~Link 9.11L.hce Inflow=0.12 cfs 0.134 af
Area= 0.402 ac 100.00% Imperv. Primary=0.12 cfs 0.134 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 9.1~Link 9.1L.hce Inflow=0.07 cfs 0.080 af
Area= 0.241 ac 100.00% Imperv. Primary=0.07 cfs 0.080 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 9.5~Link 9.5L.hce Inflow=0.03 cfs 0.031 af
Area= 0.092 ac 100.00% Imperv. Primary=0.03 cfs 0.031 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 9.6~Link 9.6L.hce Inflow=0.16 cfs 0.188 af
Area= 0.562 ac 100.00% Imperv. Primary=0.16 cfs 0.188 af

Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 11.14~Link 11.14L.hce Inflow=0.02 cfs 0.027 af
Area= 0.080 ac 100.00% Imperv. Primary=0.02 cfs 0.027 af

Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 11.18~Link 11.18L.hce Inflow=0.03 cfs 0.034 af
Area= 0.103 ac 100.00% Imperv. Primary=0.03 cfs 0.034 af

Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 11.25~Link 11.25L.hce Inflow=0.05 cfs 0.054 af
Area= 0.161 ac 100.00% Imperv. Primary=0.05 cfs 0.054 af

Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 11.33~Link 11.33L.hce Inflow=0.02 cfs 0.027 af
Area= 0.080 ac 100.00% Imperv. Primary=0.02 cfs 0.027 af

_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 11.3~Link 11.3L.hce Inflow=0.13 cfs 0.146 af
Area= 0.436 ac 100.00% Imperv. Primary=0.13 cfs 0.146 af

_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 12.2~Link 12.2L.hce Inflow=0.13 cfs 0.126 af
Area= 0.379 ac 100.00% Imperv. Primary=0.13 cfs 0.126 af

Total Runoff Area = 449.666 ac Runoff Volume = 62.594 af Average Runoff Depth = 1.67"
93.36% Pervious = 419.787 ac 6.64% Impervious = 29.879 ac

Summary for Subcatchment 1.10S: Area 1.10

Runoff = 0.94 cfs @ 12.04 hrs, Volume= 0.070 af, Depth= 3.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
8,640	98	Paved parking, HSG C
2,000	71	Meadow, non-grazed, HSG C
10,640	93	Weighted Average
2,000		18.80% Pervious Area
8,640		81.20% Impervious Area

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

Summary for Subcatchment 1.11S: Area 1.11

Runoff = 1.16 cfs @ 12.06 hrs, Volume= 0.097 af, Depth= 3.78"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
12,060	98	Paved parking, HSG C
1,400	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
13,460	96	Weighted Average
1,400		10.40% Pervious Area
12,060		89.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.9	62	0.0200	0.15		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.5	38	0.0300	1.29		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
0.6	130	0.0300	3.52		Shallow Concentrated Flow, Paved Kv= 20.3 fps
8.0	230	Total			

Summary for Subcatchment 1.12S: Area 1.12

Runoff = 2.27 cfs @ 12.10 hrs, Volume= 0.199 af, Depth= 2.95"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 181

Area (sf)	CN	Description
17,805	98	Paved parking, HSG C
3,410	98	Roofs, HSG C
13,975	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
35,190	88	Weighted Average
13,975		39.71% Pervious Area
21,215		60.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	75	0.0200	0.16		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
2.7	566	0.0300	3.52		Shallow Concentrated Flow, Paved Kv= 20.3 fps
10.7	641	Total			

Summary for Subcatchment 1.13S: Area 1.13

Runoff = 2.46 cfs @ 12.05 hrs, Volume= 0.180 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
53,050	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
53,050	74	Weighted Average
53,050		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.1	50	0.2500	0.39		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
2.1	50	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.14S: Area 1.14

Runoff = 0.47 cfs @ 12.05 hrs, Volume= 0.035 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
11,800	71	Meadow, non-grazed, HSG C
11,800		100.00% Pervious Area

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

Summary for Subcatchment 1.15S: Area 1.15

Runoff = 2.27 cfs @ 12.04 hrs, Volume= 0.183 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
8,040	98	Paved parking, HSG C
15,790	98	Roofs, HSG C
0	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
23,830	98	Weighted Average
23,830		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,
5.0	0	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.16S: Area 1.16

Runoff = 1.52 cfs @ 12.04 hrs, Volume= 0.122 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
15,985	98	Roofs, HSG C
0	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
15,985	98	Weighted Average
15,985		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,
5.0	0	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.17S: Area 1.17

Runoff = 1.47 cfs @ 12.05 hrs, Volume= 0.107 af, Depth= 1.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
8,217	70	Woods, Good, HSG C
2,400	74	>75% Grass cover, Good, HSG C
19,624	77	Woods, Good, HSG D
30,241	75	Weighted Average
30,241		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	75	0.2500	0.43		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.3	30	0.1500	1.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.9	360	0.1000	6.67	37.22	Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=0.70' Z= 7.1 '/' Top.W=12.94' n= 0.040 Mountain streams
4.1	465	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.1S: Area-1.1

Runoff = 39.52 cfs @ 12.20 hrs, Volume= 4.404 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
1,500,780	70	Woods, Good, HSG C
11,590	77	Woods, Good, HSG D
30,280	74	>75% Grass cover, Good, HSG C
1,542,650	70	Weighted Average
1,542,650		100.00% Pervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 184

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.6	75	0.1200	0.15		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
7.8	1,425	0.3700	3.04		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.4	545	0.2000	24.25	698.34	Trap/Vee/Rect Channel Flow, Mountain Stream Bot.W=4.50' D=3.00' Z= 1.7 '/' Top.W=14.70' n= 0.040 Mountain streams
0.1	250	0.1600	30.49	2,126.93	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=11.00' D=4.50' Z= 1.0 '/' Top.W=20.00' n= 0.040 Mountain streams
16.9	2,295	Total			

Summary for Subcatchment 1.2S: Area 1.2

Runoff = 12.54 cfs @ 12.14 hrs, Volume= 1.247 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Roofs, HSG C
41,210	74	>75% Grass cover, Good, HSG C
395,569	70	Woods, Good, HSG C
0	77	Woods, Good, HSG D
436,779	70	Weighted Average
436,779		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	75	0.3300	0.22		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
6.5	1,175	0.3600	3.00		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.6	260	0.0500	7.40	38.86	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
12.8	1,510	Total			

Summary for Subcatchment 1.3S: Area-1.3

Runoff = 3.29 cfs @ 12.18 hrs, Volume= 0.355 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 185

Area (sf)	CN	Description
124,373	70	Woods, Good, HSG C
124,373		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0	90	0.0750	0.12		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
3.4	395	0.1500	1.94		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.1	265	0.1600	30.49	2,126.93	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=11.00' D=4.50' Z= 1.0 '/' Top.W=20.00' n= 0.040 Mountain streams
15.5	750	Total			

Summary for Subcatchment 1.4S: Area 1.4

Runoff = 11.86 cfs @ 12.11 hrs, Volume= 1.079 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
33,624	74	>75% Grass cover, Good, HSG C
89,440	77	Woods, Good, HSG D
210,806	70	Woods, Good, HSG C
12,034	65	Brush, Good, HSG C
345,904	72	Weighted Average
345,904		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	75	0.2500	0.43		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
1.2	119	0.1100	1.66		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
2.4	100	0.0750	0.68		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
3.9	450	0.1500	1.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.5	617	0.0950	22.37	1,509.82	Trap/Vee/Rect Channel Flow, Mountain Stream Bot.W=5.00' D=5.00' Z= 1.7 '/' Top.W=22.00' n= 0.040 Mountain streams
10.9	1,361	Total			

Summary for Subcatchment 1.5S: Area 1.5

Runoff = 18.66 cfs @ 12.21 hrs, Volume= 2.142 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
702,889	70	Woods, Good, HSG C
39,952	74	>75% Grass cover, Good, HSG C
0	98	Roofs, HSG C
7,435	77	Woods, Good, HSG D
750,276	70	Weighted Average
750,276		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	75	0.1400	0.15		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
8.9	1,550	0.3400	2.92		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.6	120	0.2000	3.13		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.4	220	0.0600	9.68	116.11	Trap/Vee/Rect Channel Flow, roadside channel Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Mountain streams
18.0	1,965	Total			

Summary for Subcatchment 1.6S: Area 1.6

Runoff = 5.69 cfs @ 12.05 hrs, Volume= 0.420 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
1,395	98	Paved parking, HSG C
0	98	Roofs, HSG C
65,620	74	>75% Grass cover, Good, HSG C
16,160	77	Woods, Good, HSG D
45,695	70	Woods, Good, HSG C
128,870	73	Weighted Average
127,475		98.92% Pervious Area
1,395		1.08% Impervious Area

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Page 187

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	75	0.1000	2.21		Shallow Concentrated Flow, lawn Short Grass Pasture Kv= 7.0 fps
2.0	250	0.1800	2.12		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
1.3	140	0.1300	1.80		Shallow Concentrated Flow, wetland Woodland Kv= 5.0 fps
3.9	465	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.7S: Area 1.7

Runoff = 3.69 cfs @ 12.04 hrs, Volume= 0.286 af, Depth= 3.78"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
36,835	98	Paved parking, HSG C
0	98	Roofs, HSG C
2,780	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
0	70	Woods, Good, HSG C
39,615	96	Weighted Average
2,780		7.02% Pervious Area
36,835		92.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0400	1.76		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
0.2	55	0.0400	4.06		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.8	1,090	0.1000	22.77	71.54	Pipe Channel, Road culvert 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013 Corrugated PE, smooth interior
1.9	1,245	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.8S: Area 1.8

Runoff = 2.51 cfs @ 12.05 hrs, Volume= 0.184 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 188

Area (sf)	CN	Description
0	98	Paved parking, HSG C
5,915	70	Woods, Good, HSG C
44,225	74	>75% Grass cover, Good, HSG C
4,060	77	Woods, Good, HSG D
54,200	74	Weighted Average
54,200		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.1	60	0.3600	0.47		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
2.5	40	0.1100	0.27		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.3	40	0.1100	2.32		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
4.9	140	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.9S: Area 1.9

Runoff = 7.76 cfs @ 12.05 hrs, Volume= 0.565 af, Depth= 1.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
29,215	98	Paved parking, HSG C
0	98	Roofs, HSG C
50,280	74	>75% Grass cover, Good, HSG C
45,210	70	Woods, Good, HSG C
35,105	65	Brush, Good, HSG C
159,810	75	Weighted Average
130,595		81.72% Pervious Area
29,215		18.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	75	0.1500	1.94		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.4	80	0.2000	3.13		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.9	575	0.0200	5.08	20.33	Trap/Vee/Rect Channel Flow, roadside channel Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.030 Earth, grassed & winding
2.9	730	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.10S: Area 2.10

Runoff = 9.41 cfs @ 12.15 hrs, Volume= 0.943 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
3,185	98	Paved parking, HSG C
98,190	74	>75% Grass cover, Good, HSG C
54,755	77	Woods, Good, HSG D
88,945	70	Woods, Good, HSG C
34,201	65	Brush, Good, HSG C
22,950	71	Meadow, non-grazed, HSG C
302,226	72	Weighted Average
299,041		98.95% Pervious Area
3,185		1.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	75	0.2500	0.19		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
7.2	650	0.0900	1.50		Shallow Concentrated Flow, wetland Woodland Kv= 5.0 fps
0.2	240	0.2000	19.45	233.42	Trap/Vee/Rect Channel Flow, Point 45 Bot.W=5.00' D=2.00' Z= 0.5 '/' Top.W=7.00' n= 0.040 Mountain streams
13.8	965	Total			

Summary for Subcatchment 2.1S: Area 2.1

Runoff = 6.61 cfs @ 12.18 hrs, Volume= 0.715 af, Depth= 1.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
22,900	74	>75% Grass cover, Good, HSG C
170,946	70	Woods, Good, HSG C
68,235	65	Brush, Good, HSG C
262,081	69	Weighted Average
262,081		100.00% Pervious Area

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Page 190

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	75	0.2200	0.19		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
7.7	1,325	0.3300	2.87		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.6	120	0.2000	3.13		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.1	65	0.0600	9.68	116.11	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
15.2	1,585	Total			

Summary for Subcatchment 2.2S: Area 2.2

Runoff = 6.08 cfs @ 12.04 hrs, Volume= 0.489 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
63,870	98	Paved parking, HSG C
63,870		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	10	0.0200	0.84		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
1.2	350	0.0600	4.97		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.9	1,550	0.0600	13.30	65.31	Pipe Channel, 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.020 Corrugated PE, corrugated interior
3.3	1,910	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.3S: Area 2.3

Runoff = 4.06 cfs @ 12.05 hrs, Volume= 0.300 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
66,110	74	>75% Grass cover, Good, HSG C
25,880	70	Woods, Good, HSG C
91,990	73	Weighted Average
91,990		100.00% Pervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 191

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	75	0.1800	0.37		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.7	133	0.4000	3.16		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
4.0	208	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.4S: Area 2.4

Runoff = 1.44 cfs @ 12.04 hrs, Volume= 0.116 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
15,150	98	Paved parking, HSG C
0	98	Roofs, HSG C
15,150	98	Weighted Average
15,150		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	10	0.0200	0.84		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
2.0	350	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.0	525	0.0200	8.67	61.31	Pipe Channel, 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.020 Corrugated PE, corrugated interior
3.2	885	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.5S: Area 2.5

Runoff = 0.76 cfs @ 12.04 hrs, Volume= 0.061 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
8,000	98	Paved parking, HSG C
0	98	Roofs, HSG C
8,000	98	Weighted Average
8,000		100.00% Impervious Area

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

Summary for Subcatchment 2.6S: Area 2.6

Runoff = 7.74 cfs @ 12.10 hrs, Volume= 0.686 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
76,450	74	>75% Grass cover, Good, HSG C
153,355	70	Woods, Good, HSG C
229,805	71	Weighted Average
229,805		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	75	0.3200	0.22		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
3.4	605	0.3500	2.96		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.6	120	0.2500	3.50		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.1	62	0.0470	8.56	102.77	Trap/Vee/Rect Channel Flow, roadside channel Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
9.9	862	Total			

Summary for Subcatchment 2.7S: Area 2.7

Runoff = 4.33 cfs @ 12.05 hrs, Volume= 0.324 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
52,563	74	>75% Grass cover, Good, HSG C
34,158	70	Woods, Good, HSG C
21,672	65	Brush, Good, HSG C
108,393	71	Weighted Average
108,393		100.00% Pervious Area

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Page 193

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	75	0.2200	0.41		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.3	50	0.2000	3.13		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.0	590	0.0600	9.68	116.11	Trap/Vee/Rect Channel Flow, roadside swale Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
4.4	715	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.8S: Area 2.8

Runoff = 1.01 cfs @ 12.05 hrs, Volume= 0.077 af, Depth= 1.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Roofs, HSG C
9,160	74	>75% Grass cover, Good, HSG C
6,748	70	Woods, Good, HSG C
12,192	65	Brush, Good, HSG C
28,100	69	Weighted Average
28,100		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.8	75	0.2800	0.45		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
2.0	290	0.2300	2.40		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
4.8	365	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.9S: Area 2.9

Runoff = 4.96 cfs @ 12.09 hrs, Volume= 0.431 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
71,878	74	>75% Grass cover, Good, HSG C
59,280	70	Woods, Good, HSG C
6,987	65	Brush, Good, HSG C
138,145	72	Weighted Average
138,145		100.00% Pervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 194

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.3	50	0.2000	0.36		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
5.1	50	0.2000	0.16		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.4	55	0.1800	2.12		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.6	525	0.0200	5.59	67.04	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
9.4	680	Total			

Summary for Subcatchment 2aS: Area 2A

Runoff = 2.04 cfs @ 12.07 hrs, Volume= 0.165 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
45,425	70	Woods, Good, HSG C
9,715	74	>75% Grass cover, Good, HSG C
55,140	71	Weighted Average
55,140		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	75	0.2000	0.18		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.7	110	0.3000	2.74		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
7.7	185	Total			

Summary for Subcatchment 2bS: Area 2b

Runoff = 7.30 cfs @ 12.07 hrs, Volume= 0.609 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
52,600	74	>75% Grass cover, Good, HSG C
151,520	70	Woods, Good, HSG C
204,120	71	Weighted Average
204,120		100.00% Pervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 195

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	20	0.2500	0.33		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
6.8	80	0.2500	0.20		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.6	60	0.1200	1.73		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
8.4	160	Total			

Summary for Subcatchment 3.1S: Area 3.1

Runoff = 3.98 cfs @ 12.05 hrs, Volume= 0.300 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
105,215	70	Woods, Good, HSG C
105,215		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	75	0.2500	0.43		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.9	125	0.2000	2.24		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.6	395	0.1100	11.15	83.65	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0'/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
4.4	595	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 4.1S: Area 4.1

Runoff = 17.99 cfs @ 12.14 hrs, Volume= 1.775 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Roofs, HSG C
89,715	74	>75% Grass cover, Good, HSG C
511,589	70	Woods, Good, HSG C
20,386	65	Brush, Good, HSG C
621,690	70	Weighted Average
621,690		100.00% Pervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 196

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	75	0.2000	0.27		Sheet Flow, ski trail Grass: Dense n= 0.240 P2= 3.00"
7.6	1,200	0.2800	2.65		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.3	115	0.0350	6.61	59.47	Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=1.50' Z= 2.0 '/' Top.W=9.00' n= 0.040 Earth, cobble bottom, clean sides
12.6	1,390	Total			

Summary for Subcatchment 4.2S: Area 4.2

Runoff = 3.07 cfs @ 12.04 hrs, Volume= 0.247 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
32,235	98	Paved parking, HSG C
32,235		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	40	0.0200	1.11		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
0.6	40	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 4.3S: Area 4.3

Runoff = 13.27 cfs @ 12.05 hrs, Volume= 0.994 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
24,400	98	Paved parking, HSG C
0	98	Roofs, HSG C
159,890	74	>75% Grass cover, Good, HSG C
61,766	70	Woods, Good, HSG C
46,834	65	Brush, Good, HSG C
292,890	74	Weighted Average
268,490		91.67% Pervious Area
24,400		8.33% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 197

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	75	0.2500	0.43		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
1.8	285	0.2800	2.65		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.5	135	0.0100	4.48	33.63	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.030 Earth, grassed & winding
1.4	565	0.0200	6.62	20.80	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
6.6	1,060	Total			

Summary for Subcatchment 4.4S: Area 4.4

Runoff = 3.18 cfs @ 12.05 hrs, Volume= 0.235 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
7,500	98	Paved parking, HSG C
0	98	Roofs, HSG C
31,290	74	>75% Grass cover, Good, HSG C
5,074	70	Woods, Good, HSG C
28,376	65	Brush, Good, HSG C
72,240	73	Weighted Average
64,740		89.62% Pervious Area
7,500		10.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	75	0.1200	0.32		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
1.5	185	0.1800	2.12		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.7	120	0.1500	2.71		Shallow Concentrated Flow, grass Short Grass Pasture Kv= 7.0 fps
6.1	380	Total			

Summary for Subcatchment 4.5S: Area 4.5

Runoff = 2.15 cfs @ 12.05 hrs, Volume= 0.158 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 198

Area (sf)	CN	Description
46,440	74	>75% Grass cover, Good, HSG C
46,440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	30	0.1250	0.27		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
1.9	30	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 4.6S: Area-4.6

Runoff = 6.52 cfs @ 12.05 hrs, Volume= 0.484 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
87,875	70	Woods, Good, HSG C
67,135	74	>75% Grass cover, Good, HSG C
155,010	72	Weighted Average
155,010		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	900	0.1000	12.49	149.90	Trap/Vee/Rect Channel Flow, roadside swale Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
1.2	900	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 4.7S: Area-4.7

Runoff = 4.26 cfs @ 12.06 hrs, Volume= 0.329 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
88,830	70	Woods, Good, HSG C
21,320	74	>75% Grass cover, Good, HSG C
110,150	71	Weighted Average
110,150		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	75	0.3400	0.22		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.1	245	0.5200	3.61		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
6.8	320	Total			

Summary for Subcatchment 4.8: Area-4.8

Runoff = 0.05 cfs @ 12.13 hrs, Volume= 0.005 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
1,585	70	Woods, Good, HSG C
1,585		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.8	75	0.2200	0.11		Sheet Flow, Sheet flow: Woods Woods: Dense underbrush n= 0.800 P2= 3.00"
0.2	25	0.2200	2.35		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
12.0	100	Total			

Summary for Subcatchment 5.1S: Area-5.1

Runoff = 18.01 cfs @ 12.11 hrs, Volume= 1.652 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
475,378	72	Woods/grass comb., Good, HSG C
77,787	65	Brush, Good, HSG C
553,165	71	Weighted Average
553,165		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	75	0.3200	0.22		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.8	305	0.3200	2.83		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
1.6	910	0.0900	9.72	48.60	Channel Flow, Grassed/Roadside Swale Area= 5.0 sf Perim= 7.5' r= 0.67' n= 0.035 Earth, dense weeds
1.7	910	0.0800	9.09	18.18	Trap/Vee/Rect Channel Flow, DITCH Bot.W=1.00' D=1.00' Z= 1.0 '/' Top.W=3.00' n= 0.030 Earth, grassed & winding
10.9	2,200	Total			

Summary for Subcatchment 5.2S: Area-5.2

Runoff = 4.96 cfs @ 12.10 hrs, Volume= 0.440 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
55,210	74	>75% Grass cover, Good, HSG C
4,470	77	Woods, Good, HSG D
68,322	70	Woods, Good, HSG C
19,333	65	Brush, Good, HSG C
147,335	71	Weighted Average
147,335		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.1	50	0.2000	0.16		Sheet Flow, WOODS
					Woods: Light underbrush n= 0.400 P2= 3.00"
4.2	225	0.1300	0.90		Shallow Concentrated Flow, WETLAND FLOW
					Forest w/Heavy Litter Kv= 2.5 fps
0.6	420	0.1100	10.98	57.63	Trap/Vee/Rect Channel Flow, SWALE
					Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00'
					n= 0.040 Earth, cobble bottom, clean sides
9.9	695	Total			

Summary for Subcatchment 5.3S: Area 5.3

Runoff = 13.47 cfs @ 12.07 hrs, Volume= 1.091 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
23,664	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
358,601	70	Woods, Good, HSG C
382,265	70	Weighted Average
382,265		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.4	60	0.4000	0.22		Sheet Flow, WOODS Woods: Light underbrush n= 0.400 P2= 3.00"
1.5	278	0.4000	3.16		Shallow Concentrated Flow, WOODS Woodland Kv= 5.0 fps
1.7	1,190	0.1200	11.47	60.20	Trap/Vee/Rect Channel Flow, SWALE Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
7.6	1,528	Total			

Summary for Subcatchment 6.1S: Area 6.1

Runoff = 0.72 cfs @ 12.04 hrs, Volume= 0.054 af, Depth= 3.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
1,500	74	>75% Grass cover, Good, HSG C
8,000	94	Weighted Average
1,500		18.75% Pervious Area
6,500		81.25% Impervious Area

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

Summary for Subcatchment 6.2S: Area 6.2

Runoff = 0.72 cfs @ 12.04 hrs, Volume= 0.054 af, Depth= 3.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
1,500	74	>75% Grass cover, Good, HSG C
8,000	94	Weighted Average
1,500		18.75% Pervious Area
6,500		81.25% Impervious Area

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

Summary for Subcatchment 6.3S: Area 6.3

Runoff = 0.72 cfs @ 12.04 hrs, Volume= 0.054 af, Depth= 3.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
1,500	74	>75% Grass cover, Good, HSG C
8,000	94	Weighted Average
1,500		18.75% Pervious Area
6,500		81.25% Impervious Area

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

Summary for Subcatchment 6.4S: AREA 6.1

Runoff = 1.85 cfs @ 12.05 hrs, Volume= 0.149 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Roofs, HSG C
0	74	>75% Grass cover, Good, HSG C
66,488	65	Brush, Good, HSG C
66,488	65	Weighted Average
66,488		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	75	0.1600	0.40		Sheet Flow, meadow Range n= 0.130 P2= 3.00"
1.9	305	0.1500	2.71		Shallow Concentrated Flow, meadow Short Grass Pasture Kv= 7.0 fps
5.0	380	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 7.1S: Area-7

Runoff = 2.94 cfs @ 12.05 hrs, Volume= 0.237 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 203

Area (sf)	CN	Description
105,675	65	Brush, Good, HSG C
105,675		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	75	0.1800	0.26		Sheet Flow, Sheet flow: Meadow Grass: Dense n= 0.240 P2= 3.00"
0.4	75	0.2000	3.13		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
5.3	150	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.10S: Area 8.10

Runoff = 9.65 cfs @ 12.05 hrs, Volume= 0.720 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
17,810	98	Paved parking, HSG C
0	98	Roofs, HSG C
106,562	74	>75% Grass cover, Good, HSG C
87,646	70	Woods, Good, HSG C
212,018	74	Weighted Average
194,208		91.60% Pervious Area
17,810		8.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	75	0.1200	0.32		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
1.8	275	0.2500	2.50		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.8	412	0.0600	8.11	42.57	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
6.5	762	Total			

Summary for Subcatchment 8.11S: Area-8.11

Runoff = 4.59 cfs @ 12.05 hrs, Volume= 0.347 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 204

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
48,233	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
28,882	70	Woods, Good, HSG C
44,285	65	Brush, Good, HSG C
121,400	70	Weighted Average
121,400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	75	0.2000	0.39		Sheet Flow, field Grass: Short n= 0.150 P2= 3.00"
2.3	235	0.1200	1.73		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	275	0.1200	11.65	87.37	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
5.9	585	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.12S: Area 8.12

Runoff = 2.23 cfs @ 12.04 hrs, Volume= 0.163 af, Depth= 3.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
17,800	98	Paved parking, HSG C
0	98	Roofs, HSG C
9,216	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
27,016	90	Weighted Average
9,216		34.11% Pervious Area
17,800		65.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0200	0.97		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.6	265	0.1300	7.32		Shallow Concentrated Flow, road/gutter Paved Kv= 20.3 fps
0.7	580	0.0800	13.24	41.59	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
1.6	865	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.13S: Area 8.13

Runoff = 2.17 cfs @ 12.04 hrs, Volume= 0.158 af, Depth= 3.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
17,600	98	Paved parking, HSG C
0	98	Roofs, HSG C
8,692	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
26,292	90	Weighted Average
8,692		33.06% Pervious Area
17,600		66.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0200	0.97		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.8	275	0.0800	5.74		Shallow Concentrated Flow, road/gutter Paved Kv= 20.3 fps
0.6	500	0.0800	13.24	41.59	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
1.7	795	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.15S: Area 8.15

Runoff = 5.84 cfs @ 12.04 hrs, Volume= 0.419 af, Depth= 2.32"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
32,140	98	Paved parking, HSG C
0	98	Roofs, HSG C
39,800	74	>75% Grass cover, Good, HSG C
22,178	70	Woods, Good, HSG C
94,118	81	Weighted Average
61,978		65.85% Pervious Area
32,140		34.15% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 206

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0200	0.97		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.6	270	0.1200	7.03		Shallow Concentrated Flow, road/gutter Paved Kv= 20.3 fps
1.6	1,307	0.0800	13.24	41.59	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
2.5	1,597	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.16S: Area 8.16

Runoff = 1.23 cfs @ 12.04 hrs, Volume= 0.088 af, Depth= 2.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
6,200	98	Paved parking, HSG C
0	98	Roofs, HSG C
8,876	74	>75% Grass cover, Good, HSG C
0	79	Woods/grass comb., Good, HSG D
5,500	70	Woods, Good, HSG C
20,576	80	Weighted Average
14,376		69.87% Pervious Area
6,200		30.13% Impervious Area

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

Summary for Subcatchment 8.17S: Area 8.17

Runoff = 6.36 cfs @ 12.04 hrs, Volume= 0.456 af, Depth= 2.32"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
33,680	98	Paved parking, HSG C
6,500	98	Roofs, HSG C
27,455	65	Brush, Good, HSG C
34,828	74	>75% Grass cover, Good, HSG C
102,463	81	Weighted Average
62,283		60.79% Pervious Area
40,180		39.21% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 207

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0200	0.97		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.6	250	0.1200	7.03		Shallow Concentrated Flow, road/curb Paved Kv= 20.3 fps
0.9	610	0.0800	10.93	19.31	Pipe Channel, pipe system 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.020 Corrugated PE, corrugated interior
0.7	450	0.1090	11.10	83.27	Trap/Vee/Rect Channel Flow, Roadside swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
2.5	1,330	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.1S: Area-8.1

Runoff = 6.56 cfs @ 12.09 hrs, Volume= 0.587 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
18,421	74	>75% Grass cover, Good, HSG C
6,750	77	Woods, Good, HSG D
76,355	70	Woods, Good, HSG C
124,249	65	Brush, Good, HSG C
225,775	68	Weighted Average
225,775		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	75	0.2000	0.27		Sheet Flow, field Grass: Dense n= 0.240 P2= 3.00"
1.6	235	0.1200	2.42		Shallow Concentrated Flow, wetland Short Grass Pasture Kv= 7.0 fps
2.8	807	0.0800	4.76	35.67	Trap/Vee/Rect Channel Flow, STREAM Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.080 Earth, long dense weeds
9.1	1,117	Total			

Summary for Subcatchment 8.2S: Area 8.2

Runoff = 3.68 cfs @ 12.08 hrs, Volume= 0.313 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 208

Area (sf)	CN	Description
74,864	70	Woods, Good, HSG C
15,936	65	Brush, Good, HSG C
9,600	98	Roofs, HSG C
100,400	72	Weighted Average
90,800		90.44% Pervious Area
9,600		9.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.6	40	0.3000	0.41		Sheet Flow, GRASS Grass: Short n= 0.150 P2= 3.00"
5.0	60	0.3000	0.20		Sheet Flow, WOODS Woods: Light underbrush n= 0.400 P2= 3.00"
2.1	350	0.3000	2.74		Shallow Concentrated Flow, WOODS Woodland Kv= 5.0 fps
8.7	450	Total			

Summary for Subcatchment 8.3S: Area 8.3

Runoff = 2.64 cfs @ 12.04 hrs, Volume= 0.191 af, Depth= 2.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
8,440	98	Paved parking, HSG C
0	98	Roofs, HSG C
32,950	74	>75% Grass cover, Good, HSG C
8,500	70	Woods, Good, HSG C
49,890	77	Weighted Average
41,450		83.08% Pervious Area
8,440		16.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	415	0.0300	4.69	14.06	Trap/Vee/Rect Channel Flow, SWALE Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.040 Earth, cobble bottom, clean sides
1.5	415	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.4S: Area 8.4

Runoff = 7.72 cfs @ 12.09 hrs, Volume= 0.671 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 209

Area (sf)	CN	Description
7,416	98	Paved parking, HSG C
0	98	Roofs, HSG C
25,680	74	>75% Grass cover, Good, HSG C
191,475	70	Woods, Good, HSG C
224,571	71	Weighted Average
217,155		96.70% Pervious Area
7,416		3.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	75	0.3000	0.21		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
2.5	475	0.4000	3.16		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.6	340	0.0800	9.36	49.15	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
9.1	890	Total			

Summary for Subcatchment 8.5S: Area-8.5

Runoff = 12.52 cfs @ 12.41 hrs, Volume= 1.870 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
21,540	74	>75% Grass cover, Good, HSG C
7,015	77	Woods, Good, HSG D
610,710	70	Woods, Good, HSG C
15,820	65	Brush, Good, HSG C
655,085	70	Weighted Average
655,085		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	90	0.0800	0.13		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
0.9	127	0.2200	2.35		Shallow Concentrated Flow, WOODS Woodland Kv= 5.0 fps
17.8	1,036	0.1500	0.97		Shallow Concentrated Flow, wetland flow Forest w/Heavy Litter Kv= 2.5 fps
0.8	515	0.1700	11.11	44.45	Trap/Vee/Rect Channel Flow, STREAM Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Mountain streams
31.2	1,768	Total			

Summary for Subcatchment 8.6S: Area 8.6

Runoff = 5.51 cfs @ 12.11 hrs, Volume= 0.489 af, Depth= 2.16"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
21,368	98	Paved parking, HSG C
12,400	98	Roofs, HSG C
38,886	74	>75% Grass cover, Good, HSG C
45,612	70	Woods, Good, HSG C
118,266	79	Weighted Average
84,498		71.45% Pervious Area
33,768		28.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.6	75	0.1200	0.15		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.2	219	0.4000	3.16		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.8	193	0.0700	3.97		Shallow Concentrated Flow, grass Grassed Waterway Kv= 15.0 fps
0.7	250	0.0200	6.34	47.56	Trap/Vee/Rect Channel Flow, dry swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.030 Earth, grassed & winding
11.3	737	Total			

Summary for Subcatchment 8.7S: Area 8.7

Runoff = 9.36 cfs @ 12.07 hrs, Volume= 0.747 af, Depth= 2.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
46,184	98	Paved parking, HSG C
10,440	98	Roofs, HSG C
42,927	74	>75% Grass cover, Good, HSG C
74,697	70	Woods, Good, HSG C
174,248	80	Weighted Average
117,624		67.50% Pervious Area
56,624		32.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	75	0.3100	0.21		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.0	165	0.3100	2.78		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.4	70	0.2000	3.13		Shallow Concentrated Flow, grass Short Grass Pasture Kv= 7.0 fps
0.2	50	0.0400	4.06		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.2	92	0.0200	6.34	47.56	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.030 Earth, grassed & winding
0.1	50	0.0400	5.90	4.63	Pipe Channel, 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
0.7	408	0.0800	9.36	49.15	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
8.5	910	Total			

Summary for Subcatchment 8.8S: Area 8.8

Runoff = 2.69 cfs @ 12.05 hrs, Volume= 0.201 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Roofs, HSG C
19,048	74	>75% Grass cover, Good, HSG C
48,270	70	Woods, Good, HSG C
67,318	71	Weighted Average
67,318		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	524	0.0850	7.89	23.66	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.040 Earth, cobble bottom, clean sides
1.1	524	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.9S: Area 8.9

Runoff = 2.66 cfs @ 12.04 hrs, Volume= 0.195 af, Depth= 3.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 212

Area (sf)	CN	Description
22,800	98	Paved parking, HSG C
0	98	Roofs, HSG C
8,665	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
31,465	91	Weighted Average
8,665		27.54% Pervious Area
22,800		72.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	20	0.0800	1.68		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.6	210	0.0750	5.56		Shallow Concentrated Flow, road Paved Kv= 20.3 fps
1.2	895	0.0700	12.38	38.90	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
2.0	1,125	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 9.10S: Area 9.10

Runoff = 14.01 cfs @ 12.05 hrs, Volume= 1.033 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
27,100	98	Unconnected roofs, HSG C
132,286	74	>75% Grass cover, Good, HSG C
145,503	70	Woods, Good, HSG C
12,332	65	Brush, Good, HSG C
317,221	74	Weighted Average, UI Adjusted CN = 73
290,121		91.46% Pervious Area
27,100		8.54% Impervious Area
27,100		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	1,240	0.1000	12.10	96.77	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=2.00' Z= 1.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
1.7	1,240	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 9.11S: Area 9.11S

Runoff = 3.88 cfs @ 12.14 hrs, Volume= 0.379 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
56,160	74	>75% Grass cover, Good, HSG C
2,590	77	Woods, Good, HSG D
54,069	70	Woods, Good, HSG C
14,081	65	Brush, Good, HSG C
126,900	71	Weighted Average
126,900		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	75	0.2000	0.18		Sheet Flow, WOODS Woods: Light underbrush n= 0.400 P2= 3.00"
0.3	45	0.2500	2.50		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.9	40	0.0800	0.71		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
0.9	115	0.2000	2.24		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
3.5	700	0.0100	3.36	25.22	Trap/Vee/Rect Channel Flow, swale w/ checkdams Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
12.6	975	Total			

Summary for Subcatchment 9.12S: Area 9.12S

Runoff = 2.66 cfs @ 12.04 hrs, Volume= 0.204 af, Depth= 3.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
24,900	98	Paved parking, HSG C
4,160	74	>75% Grass cover, Good, HSG C
29,060	95	Weighted Average
4,160		14.32% Pervious Area
24,900		85.68% Impervious Area

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Page 214

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	75	0.0250	1.37		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
1.7	285	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	565	0.0200	6.62	20.80	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
4.0	925	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 9.13S: Area 9.13

Runoff = 4.71 cfs @ 12.04 hrs, Volume= 0.379 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
45,985	98	Paved parking, HSG C
3,500	98	Roofs, HSG C
0	70	Woods, Good, HSG C
49,485	98	Weighted Average
49,485		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	90	0.0500	1.88		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
1.0	390	0.0950	6.26		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	1,215	0.1000	14.80	46.50	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
3.2	1,695	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 9.14S: Area 9.14

Runoff = 8.22 cfs @ 12.07 hrs, Volume= 0.690 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
225,235	70	Woods, Good, HSG C
16,365	65	Brush, Good, HSG C
241,600	70	Weighted Average
241,600		100.00% Pervious Area

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Page 215

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	75	0.3500	0.22		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
2.1	400	0.4000	3.16		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.6	415	0.0800	10.82	86.55	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=2.00' Z= 1.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
8.3	890	Total			

Summary for Subcatchment 9.1S: Area 9.1

Runoff = 4.90 cfs @ 12.06 hrs, Volume= 0.400 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,600	98	Paved parking, HSG C
0	98	Roofs, HSG C
10,062	74	>75% Grass cover, Good, HSG C
15,716	70	Woods, Good, HSG C
6,220	77	Woods, Good, HSG D
117,192	65	Brush, Good, HSG C
153,790	68	Weighted Average
149,190		97.01% Pervious Area
4,600		2.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	75	0.1800	0.37		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
2.2	515	0.3000	3.83		Shallow Concentrated Flow, field Short Grass Pasture Kv= 7.0 fps
1.5	130	0.0800	1.41		Shallow Concentrated Flow, wetland Woodland Kv= 5.0 fps
0.3	40	0.0200	2.64	26.37	Trap/Vee/Rect Channel Flow, ditch Bot.W=1.00' D=2.00' Z= 2.0 '/' Top.W=9.00' n= 0.080 Earth, long dense weeds
7.3	760	Total			

Summary for Subcatchment 9.5S: Area 9.5

Runoff = 1.82 cfs @ 12.08 hrs, Volume= 0.156 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 216

Area (sf)	CN	Description
6,300	98	Paved parking, HSG C
0	98	Roofs, HSG C
5,500	74	>75% Grass cover, Good, HSG C
6,424	70	Woods, Good, HSG C
34,019	65	Brush, Good, HSG C
52,243	71	Weighted Average
45,943		87.94% Pervious Area
6,300		12.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	75	0.2000	0.18		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.3	175	0.2000	2.24		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	162	0.2000	6.71		Shallow Concentrated Flow, grass Grassed Waterway Kv= 15.0 fps
8.7	412	Total			

Summary for Subcatchment 9.6S: Area 9.6

Runoff = 8.00 cfs @ 12.05 hrs, Volume= 0.583 af, Depth= 1.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
17,820	98	Paved parking, HSG C
0	98	Roofs, HSG C
70,795	74	>75% Grass cover, Good, HSG C
69,520	70	Woods, Good, HSG C
6,720	65	Brush, Good, HSG C
164,855	75	Weighted Average
147,035		89.19% Pervious Area
17,820		10.81% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	543	0.1000	12.49	149.90	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
0.7	543	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 9.9S: Area 9.9

Runoff = 4.03 cfs @ 12.05 hrs, Volume= 0.299 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
45,220	74	>75% Grass cover, Good, HSG C
50,524	70	Woods, Good, HSG C
95,744	72	Weighted Average
95,744		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	75	0.2200	0.41		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
1.0	225	0.3000	3.83		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
4.1	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.10S: Area-11.10

Runoff = 2.14 cfs @ 12.04 hrs, Volume= 0.157 af, Depth= 3.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
7,150	98	Paved parking, HSG C
10,000	98	Roofs, HSG C
8,850	74	>75% Grass cover, Good, HSG C
26,000	90	Weighted Average
8,850		34.04% Pervious Area
17,150		65.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	60	0.0500	1.73		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.4	160	0.0300	6.22	24.90	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.030 Earth, grassed & winding
1.0	220	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.11S: Area-11.11

Runoff = 4.65 cfs @ 12.04 hrs, Volume= 0.336 af, Depth= 2.95"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
17,000	98	Paved parking, HSG C
18,866	98	Roofs, HSG C
23,654	74	>75% Grass cover, Good, HSG C
59,520	88	Weighted Average
23,654		39.74% Pervious Area
35,866		60.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	45	0.3000	0.41		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
0.5	32	0.0200	1.06		Sheet Flow, parking lot Smooth surfaces n= 0.011 P2= 3.00"
0.4	100	0.0350	3.80		Shallow Concentrated Flow, parking lot Paved Kv= 20.3 fps
0.8	320	0.0500	6.59	5.18	Pipe Channel, closed pipe system 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
3.5	497	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.12S: Area-11.12

Runoff = 2.07 cfs @ 12.05 hrs, Volume= 0.156 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	74	>75% Grass cover, Good, HSG C
54,672	70	Woods, Good, HSG C
54,672	70	Weighted Average
54,672		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	60	0.5000	0.25		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
1.6	224	0.2200	2.35		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
5.7	284	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.13S: Area-11.13

Runoff = 0.97 cfs @ 12.04 hrs, Volume= 0.078 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	74	>75% Grass cover, Good, HSG C
10,160	98	Paved parking, HSG C
10,160	98	Weighted Average
10,160		100.00% Impervious Area

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

Summary for Subcatchment 11.14S: Area-11.14

Runoff = 6.19 cfs @ 12.12 hrs, Volume= 0.583 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
8,100	74	>75% Grass cover, Good, HSG C
34,123	77	Woods, Good, HSG D
136,566	70	Woods, Good, HSG C
16,374	65	Brush, Good, HSG C
195,163	71	Weighted Average
195,163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.4	60	0.4000	0.22		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
0.9	160	0.3300	2.87		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
6.3	300	0.1000	0.79		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
11.6	520	Total			

Summary for Subcatchment 11.15S: Area-11.15

Runoff = 1.58 cfs @ 12.15 hrs, Volume= 0.155 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 220

Area (sf)	CN	Description
12,000	74	>75% Grass cover, Good, HSG C
6,478	79	Woods/grass comb., Good, HSG D
27,065	72	Woods/grass comb., Good, HSG C
45,543	74	Weighted Average
45,543		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	75	0.2700	0.20		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.6	116	0.2500	3.50		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
3.7	175	0.1000	0.79		Shallow Concentrated Flow, WETLAND Forest w/Heavy Litter Kv= 2.5 fps
3.0	470	0.2800	2.65		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
13.5	836	Total			

Summary for Subcatchment 11.16S: Area-11.16

Runoff = 2.23 cfs @ 12.04 hrs, Volume= 0.161 af, Depth= 2.95"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
11,785	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
0	70	Woods, Good, HSG C
16,750	98	Paved parking, HSG C
28,535	88	Weighted Average
11,785		41.30% Pervious Area
16,750		58.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	25	0.0200	1.01		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.7	225	0.0800	5.74		Shallow Concentrated Flow, curb/gutter Paved Kv= 20.3 fps
0.9	440	0.0800	8.34	6.55	Pipe Channel, closed pipe system 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
2.0	690	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.17S: Area-11.17

Runoff = 1.40 cfs @ 12.04 hrs, Volume= 0.105 af, Depth= 3.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
8,930	98	Paved parking, HSG C
3,500	98	Roofs, HSG C
3,471	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
0	70	Woods, Good, HSG C
15,901	93	Weighted Average
3,471		21.83% Pervious Area
12,430		78.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0250	1.06		Sheet Flow, gravel drive Smooth surfaces n= 0.011 P2= 3.00"
3.3	500	0.0250	2.55		Shallow Concentrated Flow, gravel drive Unpaved Kv= 16.1 fps
3.6	520	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.18S: Area-11.18

Runoff = 12.19 cfs @ 12.22 hrs, Volume= 1.417 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
21,949	74	>75% Grass cover, Good, HSG C
461,725	70	Woods, Good, HSG C
12,570	65	Brush, Good, HSG C
496,244	70	Weighted Average
496,244		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.3	75	0.1000	0.14		Sheet Flow, grass Woods: Light underbrush n= 0.400 P2= 3.00"
8.7	1,425	0.3000	2.74		Shallow Concentrated Flow, WOODS Woodland Kv= 5.0 fps
0.5	250	0.0650	8.57	64.30	Trap/Vee/Rect Channel Flow, SWALE Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
18.5	1,750	Total			

Summary for Subcatchment 11.19S: Area-11.19

Runoff = 8.39 cfs @ 12.27 hrs, Volume= 1.044 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
28,500	74	>75% Grass cover, Good, HSG C
213,698	70	Woods, Good, HSG C
10,062	65	Brush, Good, HSG C
113,495	71	Meadow, non-grazed, HSG C
365,755	70	Weighted Average
365,755		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	75	0.1800	0.17		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
1.6	225	0.2200	2.35		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
6.1	1,082	0.1800	2.97		Shallow Concentrated Flow, SKI TRAIL Short Grass Pasture Kv= 7.0 fps
6.4	1,054	0.3000	2.74		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.2	150	0.1500	10.44	41.76	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
21.6	2,586	Total			

Summary for Subcatchment 11.20S: Area-11.20

Runoff = 1.01 cfs @ 12.05 hrs, Volume= 0.077 af, Depth= 1.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,400	74	>75% Grass cover, Good, HSG C
20,578	70	Woods, Good, HSG C
5,272	65	Brush, Good, HSG C
0	98	Paved parking, HSG C
28,250	69	Weighted Average
28,250		100.00% Pervious Area

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Page 223

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	45	0.3000	0.41		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
0.5	32	0.0200	1.06		Sheet Flow, parking lot Smooth surfaces n= 0.011 P2= 3.00"
0.4	100	0.0350	3.80		Shallow Concentrated Flow, parking lot Paved Kv= 20.3 fps
0.8	320	0.0500	6.59	5.18	Pipe Channel, closed pipe system 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
3.5	497	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.21S: Area-11.21

Runoff = 6.85 cfs @ 12.08 hrs, Volume= 0.592 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
186,893	70	Woods, Good, HSG C
3,300	74	>75% Grass cover, Good, HSG C
17,051	71	Meadow, non-grazed, HSG C
207,244	70	Weighted Average
207,244		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	60	0.4200	0.35		Sheet Flow, ski trail Grass: Dense n= 0.240 P2= 3.00"
1.4	350	0.3600	4.20		Shallow Concentrated Flow, ski trail Short Grass Pasture Kv= 7.0 fps
4.2	785	0.3800	3.08		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.1	56	0.0400	6.73	50.44	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Mountain streams
8.6	1,251	Total			

Summary for Subcatchment 11.23S: Area 11.23

Runoff = 2.40 cfs @ 12.05 hrs, Volume= 0.175 af, Depth= 1.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 224

Area (sf)	CN	Description
6,960	98	Paved parking, HSG C
0	98	Roofs, HSG C
* 18,113	74	>75% Grass cover, Good, HSG C
24,427	70	Woods, Good, HSG C
49,500	75	Weighted Average
42,540		85.94% Pervious Area
6,960		14.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	25	0.0200	1.01		Sheet Flow, driveway Smooth surfaces n= 0.011 P2= 3.00"
0.9	465	0.0400	8.83	46.34	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.030 Earth, grassed & winding
1.3	490	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.24S: Area 11.24

Runoff = 1.44 cfs @ 12.04 hrs, Volume= 0.103 af, Depth= 2.16"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
5,620	98	Paved parking, HSG C
0	98	Roofs, HSG C
16,892	74	>75% Grass cover, Good, HSG C
2,522	70	Woods, Good, HSG C
25,034	79	Weighted Average
19,414		77.55% Pervious Area
5,620		22.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	30	0.0400	1.38		Sheet Flow, DRIVEWAY Smooth surfaces n= 0.011 P2= 3.00"
0.1	15	0.0500	3.35		Shallow Concentrated Flow, GRASS Grassed Waterway Kv= 15.0 fps
0.5	270	0.0900	9.93	52.13	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
0.9	160	0.0100	2.95	2.32	Pipe Channel, culvert 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
1.9	475	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.25S: Area 11.25

Runoff = 2.40 cfs @ 12.08 hrs, Volume= 0.206 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
3,360	74	>75% Grass cover, Good, HSG C
57,735	70	Woods, Good, HSG C
7,755	77	Woods, Good, HSG D
68,850	71	Weighted Average
68,850		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.6	60	0.3600	0.22		Sheet Flow, GRASS Woods: Light underbrush n= 0.400 P2= 3.00"
2.6	40	0.1000	0.26		Sheet Flow, wetland Grass: Short n= 0.150 P2= 3.00"
0.3	140	0.2800	7.94		Shallow Concentrated Flow, wetland Grassed Waterway Kv= 15.0 fps
1.1	215	0.0100	3.36	25.22	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
8.6	455	Total			

Summary for Subcatchment 11.26S: Area-11.26

Runoff = 3.18 cfs @ 12.04 hrs, Volume= 0.232 af, Depth= 3.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
26,015	98	Paved parking, HSG C
0	98	Roofs, HSG C
12,531	74	>75% Grass cover, Good, HSG C
38,546	90	Weighted Average
12,531		32.51% Pervious Area
26,015		67.49% Impervious Area

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Page 226

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.16		Sheet Flow, ROAD Smooth surfaces n= 0.011 P2= 3.00"
2.1	440	0.0300	3.52		Shallow Concentrated Flow, CURB/GUTTER Paved Kv= 20.3 fps
2.8	490	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.27S: Area-11.27

Runoff = 5.59 cfs @ 12.04 hrs, Volume= 0.411 af, Depth= 3.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
12,146	98	Paved parking, HSG C
34,850	98	Roofs, HSG C
9,400	71	Meadow, non-grazed, HSG C
9,824	74	>75% Grass cover, Good, HSG C
66,220	91	Weighted Average
19,224		29.03% Pervious Area
46,996		70.97% Impervious Area

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

Summary for Subcatchment 11.28S: Area-11.28

Runoff = 0.57 cfs @ 12.04 hrs, Volume= 0.046 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	74	>75% Grass cover, Good, HSG C
6,000	98	Paved parking, HSG C
6,000	98	Weighted Average
6,000		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0200	0.97		Sheet Flow, paved Smooth surfaces n= 0.011 P2= 3.00"
0.3	20	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.29S: Area 11.29

Runoff = 0.84 cfs @ 12.05 hrs, Volume= 0.063 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
* 4,200	74	>75% Grass cover, Good, HSG C
13,044	70	Woods, Good, HSG C
3,863	71	Meadow, non-grazed, HSG C
21,107	71	Weighted Average
21,107		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	50	0.4000	0.48		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
3.8	50	0.4000	0.22		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.2	95	0.0400	6.73	50.44	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
5.8	195	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.2S: Area-11.2

Runoff = 25.58 cfs @ 12.39 hrs, Volume= 3.708 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,200	74	>75% Grass cover, Good, HSG C
953,056	70	Woods, Good, HSG C
19,327	77	Woods, Good, HSG D
121,511	65	Brush, Good, HSG C
202,670	71	Meadow, non-grazed, HSG C
1,298,764	70	Weighted Average
1,298,764		100.00% Pervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 228

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	75	0.0933	0.08		Sheet Flow, Sheet flow: Woods Woods: Dense underbrush n= 0.800 P2= 3.00"
4.4	575	0.0960	2.17		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
5.3	885	0.3110	2.79		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
2.2	355	0.2817	2.65		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
1.1	830	0.2200	12.64	50.57	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Mountain streams
29.6	2,720	Total			

Summary for Subcatchment 11.32S: Area-11.5

Runoff = 5.23 cfs @ 12.26 hrs, Volume= 0.644 af, Depth= 1.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
211,704	70	Woods, Good, HSG C
24,402	65	Brush, Good, HSG C
236,106	69	Weighted Average
236,106		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	75	0.1800	0.26		Sheet Flow, Sheet flow: Ski Trail Grass: Dense n= 0.240 P2= 3.00"
2.4	425	0.1800	2.97		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
13.2	720	0.0330	0.91		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.1	83	0.1800	14.27	107.01	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
20.6	1,303	Total			

Summary for Subcatchment 11.33S: Area-11.33

Runoff = 2.83 cfs @ 12.29 hrs, Volume= 0.359 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 229

Area (sf)	CN	Description
8,845	74	>75% Grass cover, Good, HSG C
24,220	77	Woods, Good, HSG D
82,025	70	Woods, Good, HSG C
0	98	Paved parking, HSG C
115,090	72	Weighted Average
115,090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	50	0.1500	0.15		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
11.7	50	0.1000	0.07		Sheet Flow, wetland Woods: Dense underbrush n= 0.800 P2= 3.00"
3.0	140	0.1000	0.79		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
2.7	430	0.2800	2.65		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
23.1	670	Total			

Summary for Subcatchment 11.34S: Area-11.34

Runoff = 1.73 cfs @ 12.16 hrs, Volume= 0.175 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
6,615	74	>75% Grass cover, Good, HSG C
14,006	77	Woods, Good, HSG D
35,496	70	Woods, Good, HSG C
0	98	Paved parking, HSG C
56,117	72	Weighted Average
56,117		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	75	0.2000	0.39		Sheet Flow, woods Grass: Short n= 0.150 P2= 3.00"
7.3	25	0.0800	0.06		Sheet Flow, wetland Woods: Dense underbrush n= 0.800 P2= 3.00"
2.9	150	0.1200	0.87		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
0.7	325	0.0800	7.62	30.50	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
14.1	575	Total			

Summary for Subcatchment 11.35S: Area-11.35

Runoff = 1.18 cfs @ 12.05 hrs, Volume= 0.086 af, Depth= 1.92"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
19,566	77	Woods, Good, HSG D
3,700	70	Woods, Good, HSG C
0	98	Paved parking, HSG C
23,266	76	Weighted Average
23,266		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	370	0.1500	7.29	87.45	Trap/Vee/Rect Channel Flow, swale Bot.W=1.00' D=2.00' Z= 2.5 '/ Top.W=11.00' n= 0.080 Earth, long dense weeds

0.8 370 Total, Increased to minimum Tc = 6.0 min

Summary for Subcatchment 11.36S: Area-11.36

Runoff = 2.55 cfs @ 12.07 hrs, Volume= 0.207 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
5,035	77	Woods, Good, HSG D
52,307	70	Woods, Good, HSG C
11,888	71	Meadow, non-grazed, HSG C
69,230	71	Weighted Average
69,230		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	75	0.3100	0.21		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
1.6	255	0.2800	2.65		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.3	260	0.1500	15.88	575.72	Trap/Vee/Rect Channel Flow, swale Bot.W=7.50' D=2.50' Z= 2.8 '/ Top.W=21.50' n= 0.050 Mountain streams w/large boulders

7.8 590 Total

Summary for Subcatchment 11.38S: Area-11.38

Runoff = 0.69 cfs @ 12.05 hrs, Volume= 0.050 af, Depth= 1.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,275	74	>75% Grass cover, Good, HSG C
8,026	77	Woods, Good, HSG D
3,949	70	Woods, Good, HSG C
0	98	Paved parking, HSG C
14,250	75	Weighted Average
14,250		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	185	0.2500	9.37	122.96	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 4.5 '/ Top.W=15.50' n= 0.070 Sluggish weedy reaches w/pools
0.3	185	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.39S: Area-11.39

Runoff = 0.84 cfs @ 12.05 hrs, Volume= 0.064 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
1,950	74	>75% Grass cover, Good, HSG C
19,400	71	Meadow, non-grazed, HSG C
21,350	71	Weighted Average
21,350		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	75	0.1800	0.26		Sheet Flow, ski trail Grass: Dense n= 0.240 P2= 3.00"
1.1	225	0.2500	3.50		Shallow Concentrated Flow, ski trail Short Grass Pasture Kv= 7.0 fps
0.5	135	0.0200	4.76	35.67	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/ Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
6.5	435	Total			

Summary for Subcatchment 11.3S: Area-11.3

Runoff = 65.25 cfs @ 12.37 hrs, Volume= 9.174 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,331,661	70	Woods, Good, HSG C
31,516	74	>75% Grass cover, Good, HSG C
257,243	98	Paved parking & roofs
73,710	77	Woods, Good, HSG D
123,467	71	Meadow, non-grazed, HSG C
2,817,597	73	Weighted Average
2,560,354		90.87% Pervious Area
257,243		9.13% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	75	0.1133	0.21		Sheet Flow, Sheet flow: Meadow Grass: Dense n= 0.240 P2= 3.00"
4.7	1,038	0.2800	3.70		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
8.9	1,412	0.2800	2.65		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.8	127	0.1500	2.71		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
2.8	450	0.2800	2.65		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
3.0	395	0.0250	2.17	23.92	Trap/Vee/Rect Channel Flow, stream Bot.W=1.00' D=1.00' Z= 10.0 '/' Top.W=21.00' n= 0.070 Sluggish weedy reaches w/pools
0.8	300	0.0250	5.95	71.40	Trap/Vee/Rect Channel Flow, stream Bot.W=1.00' D=2.00' Z= 2.5 '/' Top.W=11.00' n= 0.040 Winding stream, pools & shoals
1.2	720	0.0250	9.97	996.95	Trap/Vee/Rect Channel Flow, stream Bot.W=10.00' D=5.00' Z= 2.0 '/' Top.W=30.00' n= 0.050 Mountain streams w/large boulders
0.1	45	0.0500	13.29	167.02	Pipe Channel, culvert 48.0" Round Area= 12.6 sf Perim= 12.6' r= 1.00' n= 0.025 Corrugated metal
0.1	360	0.3100	53.27	13,317.10	Trap/Vee/Rect Channel Flow, stream Bot.W=15.00' D=10.00' Z= 1.0 '/' Top.W=35.00' n= 0.050 Mountain streams w/large boulders
0.1	90	0.0500	19.28	378.54	Pipe Channel, culvert 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.020 Corrugated PE, corrugated interior
0.6	393	0.0280	10.52	1,068.46	Trap/Vee/Rect Channel Flow, Bot.W=25.00' D=4.00' Z= 0.1 '/' Top.W=25.80' n= 0.050 Mountain streams w/large boulders
29.0	5,405	Total			

Summary for Subcatchment 11.40S: Area-11.40

Runoff = 4.17 cfs @ 12.04 hrs, Volume= 0.336 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
43,800	98	Paved parking, HSG C
43,800		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	10	0.0200	0.84		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
1.0	240	0.0375	3.93		Shallow Concentrated Flow, asphalt curb Paved Kv= 20.3 fps
2.0	1,940	0.0700	16.23	114.70	Pipe Channel, closed pipe system 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.020 Corrugated PE, corrugated interior
3.2	2,190	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.41S: Area-11.41

Runoff = 2.92 cfs @ 12.06 hrs, Volume= 0.231 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
51,164	71	Meadow, non-grazed, HSG C
26,216	70	Woods, Good, HSG C
77,380	71	Weighted Average
77,380		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	75	0.2500	0.19		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.7	135	0.2000	3.13		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.2	145	0.0900	10.09	75.67	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 2.0'/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
7.3	355	Total			

Summary for Subcatchment 11.4S: Area-11.4

Runoff = 3.74 cfs @ 12.04 hrs, Volume= 0.301 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
39,350	98	Roofs, HSG C
0	74	>75% Grass cover, Good, HSG C
39,350	98	Weighted Average
39,350		100.00% Impervious Area

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

Summary for Subcatchment 11.5S: Area-11.5

Runoff = 7.45 cfs @ 12.10 hrs, Volume= 0.665 af, Depth= 1.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
24,776	74	>75% Grass cover, Good, HSG C
172,742	70	Woods, Good, HSG C
46,276	65	Brush, Good, HSG C
243,794	69	Weighted Average
243,794		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.6	75	0.2100	0.27		Sheet Flow, Sheet flow: Woods Grass: Dense n= 0.240 P2= 3.00"
4.3	725	0.3200	2.83		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.5	150	0.0300	4.67	18.67	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
9.4	950	Total			

Summary for Subcatchment 11.6S: Area-11.6

Runoff = 0.98 cfs @ 12.05 hrs, Volume= 0.073 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
6,780	74	>75% Grass cover, Good, HSG C
17,770	70	Woods, Good, HSG C
24,550	71	Weighted Average
24,550		100.00% Pervious Area

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

Summary for Subcatchment 11.7S: Area-11.7

Runoff = 2.81 cfs @ 12.05 hrs, Volume= 0.208 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
38,978	74	>75% Grass cover, Good, HSG C
27,785	70	Woods, Good, HSG C
66,763	72	Weighted Average
66,763		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	70	0.2200	0.27		Sheet Flow, Grass: Dense n= 0.240 P2= 3.00"
1.1	740	0.1200	11.65	87.37	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
5.3	810				Total, Increased to minimum Tc = 6.0 min

Summary for Subcatchment 11.8S: Area-11.8

Runoff = 7.01 cfs @ 12.16 hrs, Volume= 0.711 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
7,422	74	>75% Grass cover, Good, HSG C
131,668	70	Woods, Good, HSG C
99,149	71	Meadow, non-grazed, HSG C
238,239	71	Weighted Average
238,239		100.00% Pervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 236

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	75	0.3000	0.21		Sheet Flow, Woods / Meadow Woods: Light underbrush n= 0.400 P2= 3.00"
7.4	1,157	0.2700	2.60		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.5	135	0.0300	4.67	18.67	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
13.9	1,367	Total			

Summary for Subcatchment 11.9S: Area-11.9

Runoff = 3.35 cfs @ 12.07 hrs, Volume= 0.274 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
36,375	74	>75% Grass cover, Good, HSG C
51,495	70	Woods, Good, HSG C
87,870	72	Weighted Average
87,870		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	75	0.2700	0.20		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
1.1	90	0.0375	1.36		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.9	640	0.1200	11.65	87.37	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
8.2	805	Total			

Summary for Subcatchment 12.1S: Area-12.1

Runoff = 9.70 cfs @ 12.51 hrs, Volume= 1.587 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
14,995	77	Woods, Good, HSG D
540,880	70	Woods, Good, HSG C
555,875	70	Weighted Average
555,875		100.00% Pervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 237

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	75	0.1600	0.16		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
29.6	1,685	0.0360	0.95		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.3	235	0.1600	14.19	118.17	Trap/Vee/Rect Channel Flow, stream/wetland Bot.W=3.00' D=1.50' Z= 1.7 '/' Top.W=8.10' n= 0.040 Mountain streams
37.6	1,995	Total			

Summary for Subcatchment 12.2S: Area-12.2

Runoff = 10.81 cfs @ 12.09 hrs, Volume= 0.919 af, Depth= 1.92"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
35,335	98	Paved parking, HSG C
0	98	Roofs, HSG C
133,625	74	>75% Grass cover, Good, HSG C
80,725	70	Woods, Good, HSG C
249,685	76	Weighted Average
214,350		85.85% Pervious Area
35,335		14.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	75	0.2000	0.18		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
0.4	60	0.2000	2.24		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
1.3	210	0.1500	2.71		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.8	135	0.3000	2.74		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
9.5	480	Total			

Summary for Subcatchment 12.3S: Area-12.3

Runoff = 1.74 cfs @ 12.04 hrs, Volume= 0.140 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Prepared by The LA group

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Page 238

Area (sf)	CN	Description
18,250	98	Paved parking, HSG C
18,250		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0400	1.76		Sheet Flow, Sheet flow: Woods Smooth surfaces n= 0.011 P2= 3.00"
0.8	280	0.0850	5.92		Shallow Concentrated Flow, pavement Paved Kv= 20.3 fps
1.7	380	Total, Increased to minimum Tc = 6.0 min			

Summary for Reach 11.10R: Mountain stream

Inflow Area = 102.908 ac, 6.37% Impervious, Inflow Depth = 1.67" for 10-yr Local event
 Inflow = 73.45 cfs @ 12.40 hrs, Volume= 14.330 af
 Outflow = 73.22 cfs @ 12.42 hrs, Volume= 14.330 af, Atten= 0%, Lag= 1.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Max. Velocity= 7.87 fps, Min. Travel Time= 0.8 min
 Avg. Velocity = 1.98 fps, Avg. Travel Time= 3.3 min

Peak Storage= 3,670 cf @ 12.41 hrs
 Average Depth at Peak Storage= 0.37'
 Bank-Full Depth= 4.00' Flow Area= 101.6 sf, Capacity= 3,320.07 cfs

25.00' x 4.00' deep channel, n= 0.040 Mountain streams
 Side Slope Z-value= 0.1 '/' Top Width= 25.80'
 Length= 393.0' Slope= 0.1730 '/'
 Inlet Invert= 1,768.00', Outlet Invert= 1,700.00'



Summary for Reach 11.3aR: Bouldery stream

Inflow Area = 35.275 ac, 0.39% Impervious, Inflow Depth = 1.50" for 10-yr Local event
 Inflow = 28.58 cfs @ 12.40 hrs, Volume= 4.412 af
 Outflow = 28.54 cfs @ 12.40 hrs, Volume= 4.412 af, Atten= 0%, Lag= 0.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Max. Velocity= 7.44 fps, Min. Travel Time= 0.3 min
 Avg. Velocity = 2.39 fps, Avg. Travel Time= 1.0 min

Peak Storage= 545 cf @ 12.40 hrs
 Average Depth at Peak Storage= 0.26'
 Bank-Full Depth= 4.00' Flow Area= 61.6 sf, Capacity= 2,234.38 cfs

15.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 0.1 '/' Top Width= 15.80'
Length= 142.0' Slope= 0.4014 '/'
Inlet Invert= 2,390.00', Outlet Invert= 2,333.00'



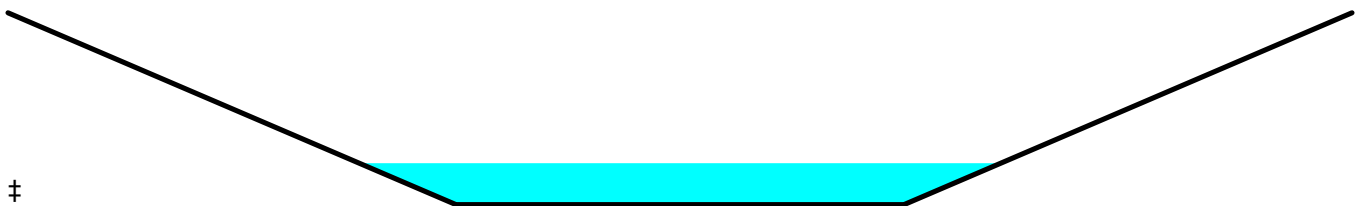
Summary for Reach 11.4aR: DP11.3

Inflow Area = 58.925 ac, 2.24% Impervious, Inflow Depth = 1.55" for 10-yr Local event
Inflow = 48.43 cfs @ 12.35 hrs, Volume= 7.603 af
Outflow = 48.36 cfs @ 12.36 hrs, Volume= 7.603 af, Atten= 0%, Lag= 0.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.53 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 2.12 fps, Avg. Travel Time= 1.7 min

Peak Storage= 1,012 cf @ 12.35 hrs
Average Depth at Peak Storage= 0.54'
Bank-Full Depth= 2.50' Flow Area= 35.0 sf, Capacity= 858.32 cfs

7.00' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.8 '/' Top Width= 21.00'
Length= 220.0' Slope= 0.3636 '/'
Inlet Invert= 2,292.00', Outlet Invert= 2,212.00'



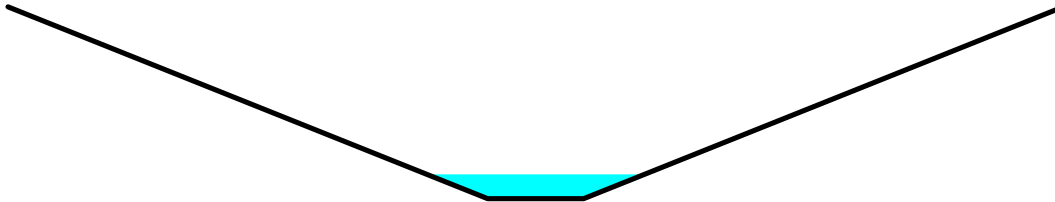
Summary for Reach 11.4bR: DP11.4

Inflow Area = 14.025 ac, 28.21% Impervious, Inflow Depth = 2.25" for 10-yr Local event
Inflow = 2.48 cfs @ 13.94 hrs, Volume= 2.630 af
Outflow = 2.48 cfs @ 13.95 hrs, Volume= 2.630 af, Atten= 0%, Lag= 0.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.97 fps, Min. Travel Time= 0.4 min
Avg. Velocity = 2.33 fps, Avg. Travel Time= 1.0 min

Peak Storage= 60 cf @ 13.94 hrs
Average Depth at Peak Storage= 0.25'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 231.18 cfs

1.00' x 2.00' deep channel, n= 0.040 Winding stream, pools & shoals
Side Slope Z-value= 2.5 '/' Top Width= 11.00'
Length= 145.0' Slope= 0.2621 '/'
Inlet Invert= 2,250.00', Outlet Invert= 2,212.00'



Summary for Reach 11.4R: DP-11.2

Inflow Area = 57.335 ac, 2.30% Impervious, Inflow Depth = 1.55" for 10-yr Local event
Inflow = 47.57 cfs @ 12.33 hrs, Volume= 7.396 af
Outflow = 47.48 cfs @ 12.35 hrs, Volume= 7.396 af, Atten= 0%, Lag= 1.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.66 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 1.44 fps, Avg. Travel Time= 3.1 min

Peak Storage= 1,660 cf @ 12.34 hrs
Average Depth at Peak Storage= 0.66'
Bank-Full Depth= 2.50' Flow Area= 36.3 sf, Capacity= 575.36 cfs

7.50' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.8 '/' Top Width= 21.50'
Length= 267.0' Slope= 0.1498 '/'
Inlet Invert= 2,332.00', Outlet Invert= 2,292.00'



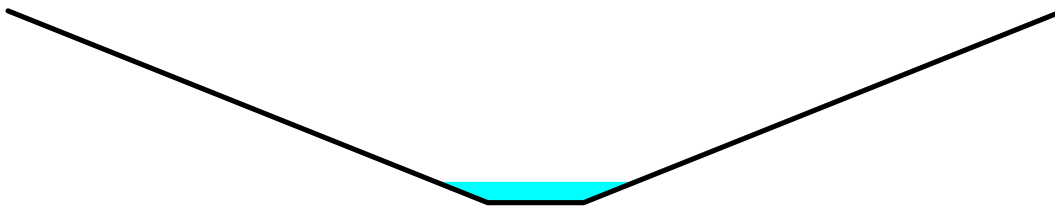
Summary for Reach 11.5aR: DP11.5

Inflow Area = 1.653 ac, 17.26% Impervious, Inflow Depth = 2.03" for 10-yr Local event
Inflow = 1.77 cfs @ 12.16 hrs, Volume= 0.280 af
Outflow = 1.72 cfs @ 12.22 hrs, Volume= 0.280 af, Atten= 3%, Lag= 3.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.15 fps, Min. Travel Time= 2.0 min
Avg. Velocity = 1.86 fps, Avg. Travel Time= 5.5 min

Peak Storage= 208 cf @ 12.19 hrs
Average Depth at Peak Storage= 0.22'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 217.63 cfs

1.00' x 2.00' deep channel, n= 0.040 Winding stream, pools & shoals
Side Slope Z-value= 2.5 '/' Top Width= 11.00'
Length= 620.0' Slope= 0.2323 '/'
Inlet Invert= 2,254.00', Outlet Invert= 2,110.00'



Summary for Reach 11.5R: Mountain stream

Inflow Area = 72.950 ac, 7.23% Impervious, Inflow Depth = 1.68" for 10-yr Local event
Inflow = 49.22 cfs @ 12.36 hrs, Volume= 10.232 af
Outflow = 48.97 cfs @ 12.39 hrs, Volume= 10.232 af, Atten= 1%, Lag= 1.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.65 fps, Min. Travel Time= 1.0 min
Avg. Velocity = 2.08 fps, Avg. Travel Time= 3.7 min

Peak Storage= 2,922 cf @ 12.37 hrs
Average Depth at Peak Storage= 0.42'
Bank-Full Depth= 5.00' Flow Area= 92.5 sf, Capacity= 2,943.05 cfs

15.00' x 5.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 0.7 '/' Top Width= 22.00'
Length= 455.0' Slope= 0.2242 '/'
Inlet Invert= 2,212.00', Outlet Invert= 2,110.00'



Summary for Reach 11.6aR: Mountain stream

Inflow Area = 102.908 ac, 6.37% Impervious, Inflow Depth = 1.67" for 10-yr Local event
Inflow = 74.29 cfs @ 12.37 hrs, Volume= 14.329 af
Outflow = 74.16 cfs @ 12.37 hrs, Volume= 14.329 af, Atten= 0%, Lag= 0.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 11.85 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 2.86 fps, Avg. Travel Time= 1.4 min

Peak Storage= 1,535 cf @ 12.37 hrs
Average Depth at Peak Storage= 0.56'
Bank-Full Depth= 5.00' Flow Area= 100.0 sf, Capacity= 3,987.80 cfs

10.00' x 5.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.0 '/ Top Width= 30.00'
Length= 245.0' Slope= 0.4000 '/
Inlet Invert= 1,990.00', Outlet Invert= 1,892.00'



Summary for Reach 11.6R: Mountain stream

Inflow Area = 74.603 ac, 7.46% Impervious, Inflow Depth = 1.69" for 10-yr Local event
Inflow = 50.23 cfs @ 12.38 hrs, Volume= 10.512 af
Outflow = 50.07 cfs @ 12.41 hrs, Volume= 10.512 af, Atten= 0%, Lag= 1.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.87 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 2.24 fps, Avg. Travel Time= 3.5 min

Peak Storage= 2,688 cf @ 12.39 hrs
Average Depth at Peak Storage= 0.51'
Bank-Full Depth= 5.00' Flow Area= 100.0 sf, Capacity= 3,155.95 cfs

10.00' x 5.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.0 '/ Top Width= 30.00'
Length= 475.0' Slope= 0.2505 '/
Inlet Invert= 2,109.00', Outlet Invert= 1,990.00'



Summary for Reach 11.8R: Mountain stream

Inflow Area = 102.908 ac, 6.37% Impervious, Inflow Depth = 1.67" for 10-yr Local event
Inflow = 74.16 cfs @ 12.37 hrs, Volume= 14.329 af
Outflow = 73.63 cfs @ 12.40 hrs, Volume= 14.330 af, Atten= 1%, Lag= 1.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Max. Velocity= 9.89 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 3.67 fps, Avg. Travel Time= 1.6 min

Peak Storage= 2,686 cf @ 12.38 hrs
Average Depth at Peak Storage= 0.48'
Bank-Full Depth= 10.00' Flow Area= 250.0 sf, Capacity= 13,400.37 cfs

15.00' x 10.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 35.00'
Length= 360.0' Slope= 0.3139 '/'
Inlet Invert= 1,887.00', Outlet Invert= 1,774.00'



Summary for Reach DP-1: Design Point-1

Inflow Area = 72.474 ac, 5.73% Impervious, Inflow Depth = 1.65" for 10-yr Local event
Inflow = 49.28 cfs @ 12.27 hrs, Volume= 9.964 af
Outflow = 49.26 cfs @ 12.27 hrs, Volume= 9.964 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.83 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 1.79 fps, Avg. Travel Time= 0.1 min

Peak Storage= 50 cf @ 12.27 hrs
Average Depth at Peak Storage= 0.65'
Bank-Full Depth= 3.00' Flow Area= 30.0 sf, Capacity= 670.80 cfs

7.00' x 3.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.0 '/' Top Width= 13.00'
Length= 10.0' Slope= 0.1500 '/'
Inlet Invert= 0.00', Outlet Invert= -1.50'



Summary for Reach DP-11: Design Point-11

Inflow Area = 168.027 ac, 7.68% Impervious, Inflow Depth = 1.69" for 10-yr Local event
Inflow = 137.69 cfs @ 12.40 hrs, Volume= 23.649 af
Outflow = 137.69 cfs @ 12.40 hrs, Volume= 23.649 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-12: Design Point-12

Inflow Area = 19.291 ac, 8.34% Impervious, Inflow Depth = 1.72" for 10-yr Local event
Inflow = 10.03 cfs @ 12.51 hrs, Volume= 2.769 af
Outflow = 10.03 cfs @ 12.51 hrs, Volume= 2.769 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Max. Velocity= 7.50 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 1.48 fps, Avg. Travel Time= 0.1 min

Peak Storage= 13 cf @ 12.51 hrs
Average Depth at Peak Storage= 0.37'
Bank-Full Depth= 1.50' Flow Area= 8.1 sf, Capacity= 128.70 cfs

3.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.6 '/' Top Width= 7.80'
Length= 10.0' Slope= 0.2000 '/'
Inlet Invert= 0.00', Outlet Invert= -2.00'



Summary for Reach DP-1a: Design Point-1a

Inflow Area = 16.476 ac, 9.23% Impervious, Inflow Depth > 1.79" for 10-yr Local event
Inflow = 3.35 cfs @ 13.06 hrs, Volume= 2.457 af
Outflow = 3.35 cfs @ 13.06 hrs, Volume= 2.457 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Max. Velocity= 3.77 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 1.07 fps, Avg. Travel Time= 0.2 min

Peak Storage= 9 cf @ 13.06 hrs
Average Depth at Peak Storage= 0.23'
Bank-Full Depth= 1.25' Flow Area= 10.0 sf, Capacity= 97.10 cfs

3.00' x 1.25' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.0 '/' Top Width= 13.00'
Length= 10.0' Slope= 0.1000 '/'
Inlet Invert= 0.00', Outlet Invert= -1.00'



Summary for Reach DP-2: Design Point-2

Inflow Area = 31.101 ac, 14.56% Impervious, Inflow Depth = 1.91" for 10-yr Local event
Inflow = 18.95 cfs @ 12.14 hrs, Volume= 4.956 af
Outflow = 18.94 cfs @ 12.14 hrs, Volume= 4.956 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.58 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 1.69 fps, Avg. Travel Time= 0.1 min

Peak Storage= 22 cf @ 12.14 hrs
Average Depth at Peak Storage= 0.42'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 233.42 cfs

5.00' x 2.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 0.5 '/' Top Width= 7.00'
Length= 10.0' Slope= 0.2000 '/'
Inlet Invert= 0.00', Outlet Invert= -2.00'



Summary for Reach DP-2a: Design Point-2a

Inflow Area = 1.266 ac, 0.00% Impervious, Inflow Depth = 1.56" for 10-yr Local event
Inflow = 2.04 cfs @ 12.07 hrs, Volume= 0.165 af
Outflow = 2.04 cfs @ 12.07 hrs, Volume= 0.165 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-2b: Design Point-2b

Inflow Area = 4.686 ac, 0.00% Impervious, Inflow Depth = 1.56" for 10-yr Local event
Inflow = 7.30 cfs @ 12.07 hrs, Volume= 0.609 af
Outflow = 7.30 cfs @ 12.07 hrs, Volume= 0.609 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-3: Design Point-3

Inflow Area = 2.415 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
Inflow = 3.98 cfs @ 12.05 hrs, Volume= 0.300 af
Outflow = 3.93 cfs @ 12.06 hrs, Volume= 0.300 af, Atten= 1%, Lag= 0.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.44 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 2.77 fps, Avg. Travel Time= 0.9 min

Peak Storage= 71 cf @ 12.05 hrs
Average Depth at Peak Storage= 0.28'
Bank-Full Depth= 1.50' Flow Area= 4.1 sf, Capacity= 79.12 cfs

1.50' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 0.8 '/' Top Width= 3.90'
Length= 150.0' Slope= 0.4000 '/'
Inlet Invert= 0.00', Outlet Invert= -60.00'



Summary for Reach DP-4: Design Point-4

Inflow Area = 32.799 ac, 11.24% Impervious, Inflow Depth > 1.82" for 10-yr Local event
Inflow = 13.43 cfs @ 12.55 hrs, Volume= 4.963 af
Outflow = 13.43 cfs @ 12.55 hrs, Volume= 4.963 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Max. Velocity= 7.64 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 2.05 fps, Avg. Travel Time= 0.1 min

Peak Storage= 18 cf @ 12.55 hrs
Average Depth at Peak Storage= 0.28'
Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 768.66 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 12.00'
Length= 10.0' Slope= 0.4000 '/'
Inlet Invert= 0.00', Outlet Invert= -4.00'



Summary for Reach DP-5: Design Point-5

Inflow Area = 25.190 ac, 1.32% Impervious, Inflow Depth = 1.57" for 10-yr Local event
Inflow = 34.93 cfs @ 12.12 hrs, Volume= 3.294 af
Outflow = 34.90 cfs @ 12.12 hrs, Volume= 3.294 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.57 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 2.19 fps, Avg. Travel Time= 0.1 min

Peak Storage= 36 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.86'
Bank-Full Depth= 2.50' Flow Area= 16.3 sf, Capacity= 273.11 cfs

3.00' x 2.50' deep channel, n= 0.035 Earth, dense weeds
Side Slope Z-value= 1.4 '/' Top Width= 10.00'
Length= 10.0' Slope= 0.1000 '/'
Inlet Invert= 1,736.00', Outlet Invert= 1,735.00'



Summary for Reach DP-6: Design Point 6

Inflow Area = 2.077 ac, 21.55% Impervious, Inflow Depth = 1.80" for 10-yr Local event
Inflow = 1.91 cfs @ 12.05 hrs, Volume= 0.312 af
Outflow = 1.91 cfs @ 12.05 hrs, Volume= 0.312 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-7: Design Point-7

Inflow Area = 2.426 ac, 0.00% Impervious, Inflow Depth = 1.17" for 10-yr Local event
Inflow = 2.94 cfs @ 12.05 hrs, Volume= 0.237 af
Outflow = 2.94 cfs @ 12.05 hrs, Volume= 0.237 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-8: Design Point-8

Inflow Area = 53.384 ac, 14.83% Impervious, Inflow Depth = 1.74" for 10-yr Local event
Inflow = 22.18 cfs @ 12.56 hrs, Volume= 7.728 af
Outflow = 22.17 cfs @ 12.56 hrs, Volume= 7.728 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Max. Velocity= 7.46 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 1.63 fps, Avg. Travel Time= 0.1 min

Peak Storage= 30 cf @ 12.56 hrs
Average Depth at Peak Storage= 0.70'
Bank-Full Depth= 2.50' Flow Area= 18.8 sf, Capacity= 277.01 cfs

3.00' x 2.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.8 '/' Top Width= 12.00'
Length= 10.0' Slope= 0.1000 '/'
Inlet Invert= 0.00', Outlet Invert= -1.00'



Summary for Reach DP-9: Design Point-9

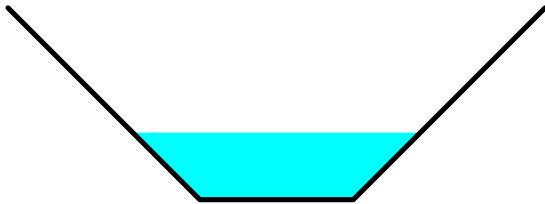
Inflow Area = 29.876 ac, 15.42% Impervious, Inflow Depth = 1.87" for 10-yr Local event
Inflow = 20.22 cfs @ 12.13 hrs, Volume= 4.662 af
Outflow = 20.01 cfs @ 12.14 hrs, Volume= 4.662 af, Atten= 1%, Lag= 0.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Max. Velocity= 7.98 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 1.61 fps, Avg. Travel Time= 1.0 min

Peak Storage= 251 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.87'
Bank-Full Depth= 2.50' Flow Area= 11.3 sf, Capacity= 152.56 cfs

2.00' x 2.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 100.0' Slope= 0.1000 '/'
Inlet Invert= 1,655.00', Outlet Invert= 1,645.00'



Summary for Reach R1.1: Mountain Stream

Inflow Area = 35.690 ac, 0.77% Impervious, Inflow Depth = 1.51" for 10-yr Local event
Inflow = 39.56 cfs @ 12.20 hrs, Volume= 4.496 af
Outflow = 38.82 cfs @ 12.25 hrs, Volume= 4.496 af, Atten= 2%, Lag= 3.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.61 fps, Min. Travel Time= 1.8 min
Avg. Velocity = 2.14 fps, Avg. Travel Time= 6.3 min

Peak Storage= 4,151 cf @ 12.22 hrs
Average Depth at Peak Storage= 0.45'
Bank-Full Depth= 4.50' Flow Area= 69.8 sf, Capacity= 1,947.63 cfs

11.00' x 4.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.0 '/' Top Width= 20.00'
Length= 805.0' Slope= 0.1342 '/'
Inlet Invert= 2,308.00', Outlet Invert= 2,200.00'



Summary for Reach R1.12: WETLAND

Inflow Area = 15.782 ac, 9.63% Impervious, Inflow Depth > 1.79" for 10-yr Local event
Inflow = 3.21 cfs @ 13.07 hrs, Volume= 2.350 af
Outflow = 3.21 cfs @ 13.09 hrs, Volume= 2.350 af, Atten= 0%, Lag= 1.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.90 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 1.25 fps, Avg. Travel Time= 2.7 min

Peak Storage= 164 cf @ 13.08 hrs
Average Depth at Peak Storage= 0.04'
Bank-Full Depth= 0.50' Flow Area= 10.3 sf, Capacity= 206.27 cfs

20.00' x 0.50' deep channel, n= 0.035 Earth, dense weeds
Side Slope Z-value= 1.0 '/' Top Width= 21.00'
Length= 200.0' Slope= 0.6000 '/'
Inlet Invert= 2,256.00', Outlet Invert= 2,136.00'



Summary for Reach R1.2: Mountain Stream

Inflow Area = 38.694 ac, 1.10% Impervious, Inflow Depth = 1.52" for 10-yr Local event
Inflow = 41.80 cfs @ 12.25 hrs, Volume= 4.901 af
Outflow = 41.13 cfs @ 12.28 hrs, Volume= 4.901 af, Atten= 2%, Lag= 1.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.62 fps, Min. Travel Time= 1.1 min
Avg. Velocity = 2.31 fps, Avg. Travel Time= 4.4 min

Peak Storage= 2,672 cf @ 12.26 hrs
Average Depth at Peak Storage= 0.70'
Bank-Full Depth= 3.00' Flow Area= 30.3 sf, Capacity= 636.66 cfs

5.00' x 3.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.7 '/' Top Width= 15.20'
Length= 616.0' Slope= 0.1461 '/'
Inlet Invert= 2,200.00', Outlet Invert= 2,110.00'



Summary for Reach R1.8: WETLAND

Inflow Area = 3.337 ac, 12.31% Impervious, Inflow Depth = 1.96" for 10-yr Local event
Inflow = 5.74 cfs @ 12.05 hrs, Volume= 0.546 af
Outflow = 5.48 cfs @ 12.07 hrs, Volume= 0.546 af, Atten= 5%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.66 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 0.55 fps, Avg. Travel Time= 3.6 min

Peak Storage= 261 cf @ 12.06 hrs
Average Depth at Peak Storage= 0.11'
Bank-Full Depth= 0.50' Flow Area= 10.3 sf, Capacity= 73.93 cfs

20.00' x 0.50' deep channel, n= 0.070 Sluggish weedy reaches w/pools
Side Slope Z-value= 1.0 '/' Top Width= 21.00'
Length= 120.0' Slope= 0.3083 '/'
Inlet Invert= 2,205.00', Outlet Invert= 2,168.00'



Summary for Reach R11.1: DP11.6

Inflow Area = 5.543 ac, 8.39% Impervious, Inflow Depth = 1.78" for 10-yr Local event
Inflow = 6.55 cfs @ 12.14 hrs, Volume= 0.821 af
Outflow = 6.35 cfs @ 12.18 hrs, Volume= 0.821 af, Atten= 3%, Lag= 2.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.83 fps, Min. Travel Time= 1.3 min
Avg. Velocity = 1.16 fps, Avg. Travel Time= 4.4 min

Peak Storage= 528 cf @ 12.15 hrs
Average Depth at Peak Storage= 0.43'
Bank-Full Depth= 1.50' Flow Area= 13.1 sf, Capacity= 102.63 cfs

2.00' x 1.50' deep channel, n= 0.070 Sluggish weedy reaches w/pools
Side Slope Z-value= 4.5 '/' Top Width= 15.50'
Length= 310.0' Slope= 0.1742 '/'
Inlet Invert= 2,224.00', Outlet Invert= 2,170.00'



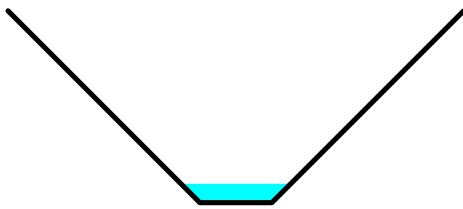
Summary for Reach R11.12: Mountain stream

Inflow Area = 4.895 ac, 2.81% Impervious, Inflow Depth = 1.56" for 10-yr Local event
Inflow = 6.86 cfs @ 12.08 hrs, Volume= 0.638 af
Outflow = 6.82 cfs @ 12.09 hrs, Volume= 0.638 af, Atten= 1%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.29 fps, Min. Travel Time= 0.4 min
Avg. Velocity = 2.66 fps, Avg. Travel Time= 1.3 min

Peak Storage= 148 cf @ 12.09 hrs
Average Depth at Peak Storage= 0.39'
Bank-Full Depth= 4.00' Flow Area= 22.0 sf, Capacity= 678.27 cfs

1.50' x 4.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.0 '/' Top Width= 9.50'
Length= 200.0' Slope= 0.3350 '/'
Inlet Invert= 2,468.00', Outlet Invert= 2,401.00'



Summary for Reach R11.13: Mountain stream

Inflow Area = 29.816 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
Inflow = 25.58 cfs @ 12.39 hrs, Volume= 3.708 af
Outflow = 25.52 cfs @ 12.41 hrs, Volume= 3.708 af, Atten= 0%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.34 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 3.08 fps, Avg. Travel Time= 1.2 min

Peak Storage= 889 cf @ 12.40 hrs
Average Depth at Peak Storage= 0.34'
Bank-Full Depth= 10.00' Flow Area= 130.0 sf, Capacity= 4,439.64 cfs

12.00' x 10.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 0.1 '/' Top Width= 14.00'
Length= 220.0' Slope= 0.2045 '/'
Inlet Invert= 2,446.00', Outlet Invert= 2,401.00'



Summary for Reach R11.14: Mountain stream

Inflow Area = 0.649 ac, 0.00% Impervious, Inflow Depth = 1.43" for 10-yr Local event
Inflow = 1.01 cfs @ 12.05 hrs, Volume= 0.077 af
Outflow = 0.96 cfs @ 12.07 hrs, Volume= 0.077 af, Atten= 5%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.25 fps, Min. Travel Time= 0.7 min
Avg. Velocity = 1.64 fps, Avg. Travel Time= 1.4 min

Peak Storage= 44 cf @ 12.06 hrs
Average Depth at Peak Storage= 0.09'
Bank-Full Depth= 3.00' Flow Area= 42.3 sf, Capacity= 989.43 cfs

3.00' x 3.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 3.7 '/ Top Width= 25.20'
Length= 140.0' Slope= 0.2071 '/
Inlet Invert= 2,464.00', Outlet Invert= 2,435.00'



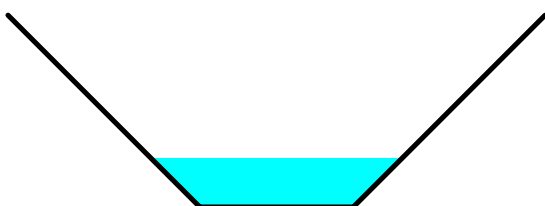
Summary for Reach R11.16: SWALE

Inflow Area = 11.496 ac, 0.90% Impervious, Inflow Depth = 1.51" for 10-yr Local event
Inflow = 12.21 cfs @ 12.22 hrs, Volume= 1.451 af
Outflow = 12.05 cfs @ 12.26 hrs, Volume= 1.451 af, Atten= 1%, Lag= 2.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.19 fps, Min. Travel Time= 1.0 min
Avg. Velocity = 1.85 fps, Avg. Travel Time= 4.1 min

Peak Storage= 759 cf @ 12.24 hrs
Average Depth at Peak Storage= 0.64'
Bank-Full Depth= 2.50' Flow Area= 11.3 sf, Capacity= 160.81 cfs

2.00' x 2.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/ Top Width= 7.00'
Length= 450.0' Slope= 0.1111 '/
Inlet Invert= 2,450.00', Outlet Invert= 2,400.00'



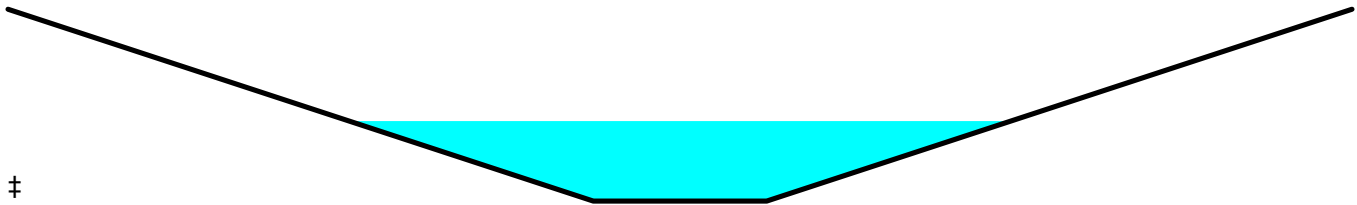
Summary for Reach R11.1A: DP11.7

Inflow Area = 28.305 ac, 3.51% Impervious, Inflow Depth = 1.62" for 10-yr Local event
Inflow = 26.18 cfs @ 12.26 hrs, Volume= 3.817 af
Outflow = 25.74 cfs @ 12.31 hrs, Volume= 3.817 af, Atten= 2%, Lag= 3.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.57 fps, Min. Travel Time= 1.8 min
Avg. Velocity = 1.73 fps, Avg. Travel Time= 9.1 min

Peak Storage= 2,865 cf @ 12.28 hrs
Average Depth at Peak Storage= 0.63'
Bank-Full Depth= 1.50' Flow Area= 13.1 sf, Capacity= 186.80 cfs

2.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.5 '/ Top Width= 15.50'
Length= 950.0' Slope= 0.1884 '/
Inlet Invert= 2,169.00', Outlet Invert= 1,990.00'



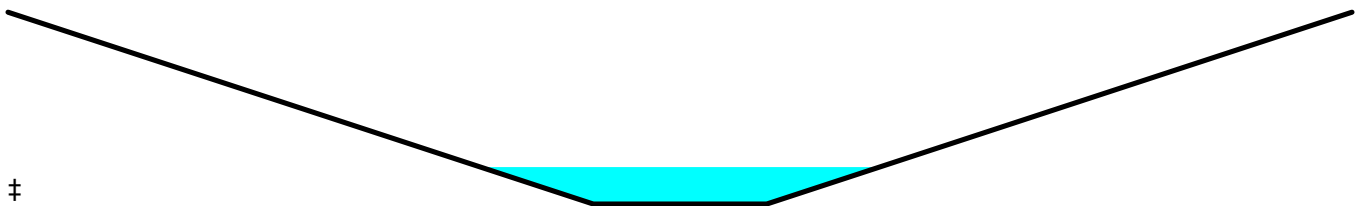
Summary for Reach R11.1B: Mountain stream

Inflow Area = 4.561 ac, 1.76% Impervious, Inflow Depth = 1.60" for 10-yr Local event
Inflow = 6.20 cfs @ 12.12 hrs, Volume= 0.610 af
Outflow = 6.06 cfs @ 12.14 hrs, Volume= 0.610 af, Atten= 2%, Lag= 1.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.42 fps, Min. Travel Time= 0.5 min
Avg. Velocity = 1.73 fps, Avg. Travel Time= 1.9 min

Peak Storage= 190 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.29'
Bank-Full Depth= 1.50' Flow Area= 13.1 sf, Capacity= 215.17 cfs

2.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.5 '/ Top Width= 15.50'
Length= 200.0' Slope= 0.2500 '/
Inlet Invert= 2,276.00', Outlet Invert= 2,226.00'



Summary for Reach R11.25: SWALE

Inflow Area = 15.057 ac, 0.00% Impervious, Inflow Depth = 1.48" for 10-yr Local event
Inflow = 15.98 cfs @ 12.14 hrs, Volume= 1.855 af
Outflow = 15.85 cfs @ 12.17 hrs, Volume= 1.855 af, Atten= 1%, Lag= 2.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.57 fps, Min. Travel Time= 1.0 min
Avg. Velocity = 2.20 fps, Avg. Travel Time= 2.7 min

Peak Storage= 1,007 cf @ 12.15 hrs
Average Depth at Peak Storage= 0.80'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 110.44 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 350.0' Slope= 0.0543 '/
Inlet Invert= 2,330.00', Outlet Invert= 2,311.00'



Summary for Reach R11.27: Overland

Inflow Area = 16.103 ac, 0.00% Impervious, Inflow Depth = 1.50" for 10-yr Local event
Inflow = 17.40 cfs @ 12.17 hrs, Volume= 2.009 af
Outflow = 16.51 cfs @ 12.28 hrs, Volume= 2.009 af, Atten= 5%, Lag= 6.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.92 fps, Min. Travel Time= 3.6 min
Avg. Velocity = 0.95 fps, Avg. Travel Time= 11.3 min

Peak Storage= 3,668 cf @ 12.22 hrs
Average Depth at Peak Storage= 0.06'
Bank-Full Depth= 0.50' Flow Area= 50.3 sf, Capacity= 620.34 cfs

100.00' x 0.50' deep channel, n= 0.035 Earth, dense weeds
Side Slope Z-value= 1.0 '/ Top Width= 101.00'
Length= 640.0' Slope= 0.2156 '/
Inlet Invert= 2,308.00', Outlet Invert= 2,170.00'



Summary for Reach R11.30: SWALE

Inflow Area = 2.196 ac, 13.15% Impervious, Inflow Depth = 1.87" for 10-yr Local event
Inflow = 0.78 cfs @ 12.55 hrs, Volume= 0.342 af
Outflow = 0.75 cfs @ 12.68 hrs, Volume= 0.342 af, Atten= 3%, Lag= 7.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 1.22 fps, Min. Travel Time= 4.4 min
Avg. Velocity = 0.40 fps, Avg. Travel Time= 13.5 min

Peak Storage= 202 cf @ 12.61 hrs
Average Depth at Peak Storage= 0.25'
Bank-Full Depth= 1.50' Flow Area= 7.5 sf, Capacity= 24.23 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 8.00'
Length= 325.0' Slope= 0.0092 '/
Inlet Invert= 2,183.00', Outlet Invert= 2,180.00'



Summary for Reach R11.31: SWALE

Inflow Area = 1.136 ac, 14.06% Impervious, Inflow Depth = 1.85" for 10-yr Local event
Inflow = 1.76 cfs @ 12.12 hrs, Volume= 0.175 af
Outflow = 1.67 cfs @ 12.16 hrs, Volume= 0.175 af, Atten= 5%, Lag= 2.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.57 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 0.54 fps, Avg. Travel Time= 4.3 min

Peak Storage= 92 cf @ 12.14 hrs
Average Depth at Peak Storage= 0.26'
Bank-Full Depth= 1.50' Flow Area= 7.5 sf, Capacity= 49.99 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 8.00'
Length= 140.0' Slope= 0.0393 '/
Inlet Invert= 2,189.50', Outlet Invert= 2,184.00'



Summary for Reach R11.33: Bouldery stream

Inflow Area = 13.664 ac, 8.65% Impervious, Inflow Depth = 1.70" for 10-yr Local event
Inflow = 12.74 cfs @ 12.26 hrs, Volume= 1.940 af
Outflow = 12.66 cfs @ 12.27 hrs, Volume= 1.940 af, Atten= 1%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.16 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 1.44 fps, Avg. Travel Time= 2.2 min

Peak Storage= 468 cf @ 12.26 hrs
Average Depth at Peak Storage= 0.31'
Bank-Full Depth= 2.50' Flow Area= 26.9 sf, Capacity= 454.15 cfs

7.50' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.3 '/ Top Width= 14.00'
Length= 190.0' Slope= 0.1579 '/
Inlet Invert= 2,420.00', Outlet Invert= 2,390.00'



Summary for Reach R11.37: SWALE

Inflow Area = 13.040 ac, 0.00% Impervious, Inflow Depth = 1.45" for 10-yr Local event
Inflow = 13.58 cfs @ 12.11 hrs, Volume= 1.580 af
Outflow = 13.36 cfs @ 12.16 hrs, Volume= 1.580 af, Atten= 2%, Lag= 3.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.14 fps, Min. Travel Time= 1.4 min
Avg. Velocity = 2.71 fps, Avg. Travel Time= 3.7 min

Peak Storage= 1,144 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.70'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 96.77 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/ Top Width= 6.00'
Length= 600.0' Slope= 0.1000 '/
Inlet Invert= 2,405.00', Outlet Invert= 2,345.00'



Summary for Reach R11.38: Wetland

Inflow Area = 2.196 ac, 13.15% Impervious, Inflow Depth = 1.87" for 10-yr Local event
Inflow = 0.75 cfs @ 12.68 hrs, Volume= 0.342 af
Outflow = 0.67 cfs @ 13.13 hrs, Volume= 0.342 af, Atten= 11%, Lag= 26.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.34 fps, Min. Travel Time= 14.8 min
Avg. Velocity = 0.10 fps, Avg. Travel Time= 50.3 min

Peak Storage= 596 cf @ 12.88 hrs
Average Depth at Peak Storage= 0.08'
Bank-Full Depth= 0.50' Flow Area= 12.8 sf, Capacity= 14.90 cfs

25.00' x 0.50' deep channel, n= 0.100 Very weedy reaches w/pools
Side Slope Z-value= 1.0 '/ Top Width= 26.00'
Length= 306.0' Slope= 0.0163 '/
Inlet Invert= 2,180.00', Outlet Invert= 2,175.00'



Summary for Reach R11.39: SWALE

Inflow Area = 1.520 ac, 70.97% Impervious, Inflow Depth = 3.25" for 10-yr Local event
Inflow = 0.77 cfs @ 12.62 hrs, Volume= 0.411 af
Outflow = 0.76 cfs @ 12.68 hrs, Volume= 0.411 af, Atten= 0%, Lag= 3.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.61 fps, Min. Travel Time= 2.0 min
Avg. Velocity = 1.36 fps, Avg. Travel Time= 3.8 min

Peak Storage= 91 cf @ 12.65 hrs
Average Depth at Peak Storage= 0.14'
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 49.35 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/ Top Width= 5.00'
Length= 310.0' Slope= 0.0806 '/
Inlet Invert= 2,446.00', Outlet Invert= 2,421.00'



Summary for Reach R11.40: SWALE

Inflow Area = 0.903 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 3.74 cfs @ 12.04 hrs, Volume= 0.301 af
Outflow = 3.59 cfs @ 12.06 hrs, Volume= 0.301 af, Atten= 4%, Lag= 1.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.82 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 1.92 fps, Avg. Travel Time= 2.7 min

Peak Storage= 171 cf @ 12.05 hrs
Average Depth at Peak Storage= 0.23'
Bank-Full Depth= 1.50' Flow Area= 7.5 sf, Capacity= 143.25 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 8.00'
Length= 310.0' Slope= 0.3226 '/
Inlet Invert= 2,430.00', Outlet Invert= 2,330.00'



Summary for Reach R2.7: SWALE

Inflow Area = 3.627 ac, 13.61% Impervious, Inflow Depth = 1.87" for 10-yr Local event
Inflow = 5.40 cfs @ 12.05 hrs, Volume= 0.565 af
Outflow = 4.55 cfs @ 12.16 hrs, Volume= 0.565 af, Atten= 16%, Lag= 6.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.18 fps, Min. Travel Time= 3.7 min
Avg. Velocity = 0.91 fps, Avg. Travel Time= 12.9 min

Peak Storage= 1,031 cf @ 12.09 hrs
Average Depth at Peak Storage= 0.49'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 81.81 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 705.0' Slope= 0.0298 '/
Inlet Invert= 2,213.00', Outlet Invert= 2,192.00'



Summary for Reach R3.1: SWALE

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 1.50' Flow Area= 7.5 sf, Capacity= 123.06 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 8.00'
Length= 420.0' Slope= 0.2381 '/
Inlet Invert= 2,179.99', Outlet Invert= 2,080.00'



Summary for Reach R4.2: SWALE

Inflow Area = 15.597 ac, 8.50% Impervious, Inflow Depth = 1.71" for 10-yr Local event
Inflow = 19.87 cfs @ 12.13 hrs, Volume= 2.217 af
Outflow = 19.63 cfs @ 12.15 hrs, Volume= 2.217 af, Atten= 1%, Lag= 1.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.59 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 1.71 fps, Avg. Travel Time= 3.4 min

Peak Storage= 915 cf @ 12.14 hrs
Average Depth at Peak Storage= 0.39'
Bank-Full Depth= 1.50' Flow Area= 13.5 sf, Capacity= 219.76 cfs

6.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 12.00'
Length= 350.0' Slope= 0.1771 '/
Inlet Invert= 2,280.00', Outlet Invert= 2,218.00'



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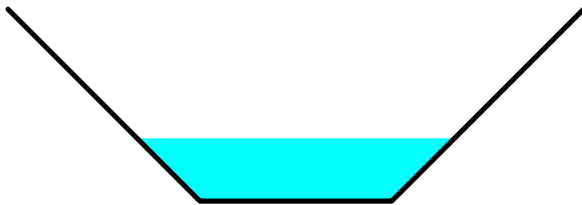
Summary for Reach R4.5: swale

Inflow Area = 30.234 ac, 12.20% Impervious, Inflow Depth > 1.84" for 10-yr Local event
Inflow = 12.43 cfs @ 12.54 hrs, Volume= 4.629 af
Outflow = 12.35 cfs @ 12.58 hrs, Volume= 4.629 af, Atten= 1%, Lag= 2.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.15 fps, Min. Travel Time= 1.3 min
Avg. Velocity = 1.58 fps, Avg. Travel Time= 5.9 min

Peak Storage= 971 cf @ 12.56 hrs
Average Depth at Peak Storage= 0.65'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 100.17 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/' Top Width= 6.00'
Length= 560.0' Slope= 0.1071 '/'
Inlet Invert= 2,065.00', Outlet Invert= 2,005.00'



Summary for Reach R4.7: swale

Inflow Area = 32.763 ac, 11.26% Impervious, Inflow Depth > 1.82" for 10-yr Local event
Inflow = 13.42 cfs @ 12.55 hrs, Volume= 4.958 af
Outflow = 13.41 cfs @ 12.55 hrs, Volume= 4.958 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 11.61 fps, Min. Travel Time= 0.1 min
Avg. Velocity = 2.75 fps, Avg. Travel Time= 0.4 min

Peak Storage= 69 cf @ 12.55 hrs
Average Depth at Peak Storage= 0.41'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 329.55 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/' Top Width= 10.00'
Length= 60.0' Slope= 0.4833 '/'
Inlet Invert= 2,001.00', Outlet Invert= 1,972.00'



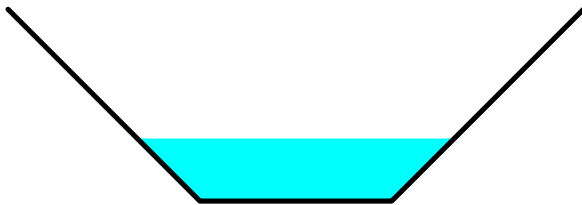
Summary for Reach R5.2: SWALE

Inflow Area = 8.776 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
Inflow = 13.47 cfs @ 12.07 hrs, Volume= 1.091 af
Outflow = 12.58 cfs @ 12.12 hrs, Volume= 1.091 af, Atten= 7%, Lag= 3.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.51 fps, Min. Travel Time= 1.4 min
Avg. Velocity = 2.60 fps, Avg. Travel Time= 4.1 min

Peak Storage= 1,106 cf @ 12.09 hrs
Average Depth at Peak Storage= 0.65'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 105.45 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/' Top Width= 6.00'
Length= 640.0' Slope= 0.1187 '/'
Inlet Invert= 1,822.00', Outlet Invert= 1,746.00'



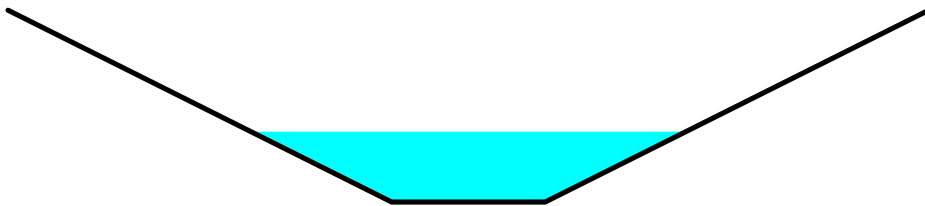
Summary for Reach R5.3: SWALE

Inflow Area = 12.491 ac, 2.66% Impervious, Inflow Depth = 1.58" for 10-yr Local event
Inflow = 17.56 cfs @ 12.11 hrs, Volume= 1.642 af
Outflow = 16.92 cfs @ 12.13 hrs, Volume= 1.642 af, Atten= 4%, Lag= 1.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.95 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 1.23 fps, Avg. Travel Time= 2.5 min

Peak Storage= 658 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.92'
Bank-Full Depth= 2.50' Flow Area= 17.5 sf, Capacity= 151.95 cfs

2.00' x 2.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/' Top Width= 12.00'
Length= 187.0' Slope= 0.0374 '/'
Inlet Invert= 1,745.00', Outlet Invert= 1,738.00'



Summary for Reach R8.16: SWALE

Inflow = 17.40 cfs @ 12.07 hrs, Volume= 1.821 af
Outflow = 16.73 cfs @ 12.09 hrs, Volume= 1.821 af, Atten= 4%, Lag= 1.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.44 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 1.69 fps, Avg. Travel Time= 3.1 min

Peak Storage= 644 cf @ 12.07 hrs
Average Depth at Peak Storage= 0.42'
Bank-Full Depth= 1.50' Flow Area= 10.5 sf, Capacity= 178.88 cfs

4.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 315.0' Slope= 0.2159 '/
Inlet Invert= 1,810.00', Outlet Invert= 1,742.00'



Summary for Reach R8.17: SWALE

Inflow Area = 1.145 ac, 16.92% Impervious, Inflow Depth = 21.08" for 10-yr Local event
Inflow = 18.83 cfs @ 12.09 hrs, Volume= 2.012 af
Outflow = 18.74 cfs @ 12.11 hrs, Volume= 2.012 af, Atten= 0%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.70 fps, Min. Travel Time= 0.5 min
Avg. Velocity = 1.73 fps, Avg. Travel Time= 2.7 min

Peak Storage= 612 cf @ 12.10 hrs
Average Depth at Peak Storage= 0.45'
Bank-Full Depth= 1.50' Flow Area= 10.5 sf, Capacity= 176.73 cfs

4.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 280.0' Slope= 0.2107 '/
Inlet Invert= 1,741.00', Outlet Invert= 1,682.00'



Summary for Reach R8.18: Mountain stream

Inflow Area = 15.337 ac, 1.95% Impervious, Inflow Depth = 1.54" for 10-yr Local event
Inflow = 12.59 cfs @ 12.41 hrs, Volume= 1.970 af
Outflow = 12.47 cfs @ 12.50 hrs, Volume= 1.970 af, Atten= 1%, Lag= 5.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.72 fps, Min. Travel Time= 3.1 min
Avg. Velocity = 1.22 fps, Avg. Travel Time= 11.9 min

Peak Storage= 2,300 cf @ 12.45 hrs
Average Depth at Peak Storage= 0.68'
Bank-Full Depth= 2.00' Flow Area= 13.0 sf, Capacity= 109.52 cfs

2.50' x 2.00' deep channel, n= 0.080 Earth, long dense weeds
Side Slope Z-value= 2.0 '/' Top Width= 10.50'
Length= 870.0' Slope= 0.1736 '/'
Inlet Invert= 1,818.00', Outlet Invert= 1,667.00'



Summary for Reach R8.2: SWALE

Inflow Area = 2.715 ac, 28.55% Impervious, Inflow Depth = 2.16" for 10-yr Local event
Inflow = 5.12 cfs @ 12.16 hrs, Volume= 0.489 af
Outflow = 4.97 cfs @ 12.20 hrs, Volume= 0.489 af, Atten= 3%, Lag= 2.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.72 fps, Min. Travel Time= 1.4 min
Avg. Velocity = 0.96 fps, Avg. Travel Time= 7.0 min

Peak Storage= 437 cf @ 12.17 hrs
Average Depth at Peak Storage= 0.44'
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 46.39 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/' Top Width= 5.00'
Length= 407.0' Slope= 0.0713 '/'
Inlet Invert= 2,303.00', Outlet Invert= 2,274.00'



Summary for Reach R8.21: SWALE

Inflow Area = 24.114 ac, 25.39% Impervious, Inflow Depth = 1.22" for 10-yr Local event
Inflow = 24.07 cfs @ 12.07 hrs, Volume= 2.447 af
Outflow = 23.08 cfs @ 12.10 hrs, Volume= 2.447 af, Atten= 4%, Lag= 2.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.19 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 2.03 fps, Avg. Travel Time= 4.3 min

Peak Storage= 1,191 cf @ 12.08 hrs
Average Depth at Peak Storage= 0.46'
Bank-Full Depth= 1.50' Flow Area= 10.5 sf, Capacity= 203.30 cfs

4.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 520.0' Slope= 0.2788 '/
Inlet Invert= 1,815.00', Outlet Invert= 1,670.00'



Summary for Reach R8.4: SWALE

Inflow Area = 6.715 ac, 30.90% Impervious, Inflow Depth = 2.21" for 10-yr Local event
Inflow = 12.41 cfs @ 12.10 hrs, Volume= 1.236 af
Outflow = 12.15 cfs @ 12.15 hrs, Volume= 1.236 af, Atten= 2%, Lag= 2.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.64 fps, Min. Travel Time= 1.3 min
Avg. Velocity = 1.33 fps, Avg. Travel Time= 6.6 min

Peak Storage= 983 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.69'
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 51.44 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/ Top Width= 5.00'
Length= 525.0' Slope= 0.0876 '/
Inlet Invert= 2,270.00', Outlet Invert= 2,224.00'



Summary for Reach R8.6: SWALE

Inflow Area = 8.502 ac, 27.24% Impervious, Inflow Depth = 2.14" for 10-yr Local event
Inflow = 13.86 cfs @ 12.14 hrs, Volume= 1.517 af
Outflow = 13.73 cfs @ 12.16 hrs, Volume= 1.517 af, Atten= 1%, Lag= 1.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.59 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 1.51 fps, Avg. Travel Time= 3.8 min

Peak Storage= 630 cf @ 12.15 hrs
Average Depth at Peak Storage= 0.68'
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 59.17 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/' Top Width= 5.00'
Length= 345.0' Slope= 0.1159 '/'
Inlet Invert= 2,220.00', Outlet Invert= 2,180.00'



Summary for Reach R9.10: Swale

Inflow Area = 12.954 ac, 25.61% Impervious, Inflow Depth > 2.18" for 10-yr Local event
Inflow = 2.08 cfs @ 13.75 hrs, Volume= 2.351 af
Outflow = 2.08 cfs @ 13.78 hrs, Volume= 2.351 af, Atten= 0%, Lag= 1.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Max. Velocity= 3.54 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 1.27 fps, Avg. Travel Time= 2.2 min

Peak Storage= 100 cf @ 13.76 hrs
Average Depth at Peak Storage= 0.24'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 136.03 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/' Top Width= 10.00'
Length= 170.0' Slope= 0.0824 '/'
Inlet Invert= 1,672.00', Outlet Invert= 1,658.00'



Summary for Reach R9.2: Swale

Inflow Area = 5.546 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
Inflow = 8.22 cfs @ 12.07 hrs, Volume= 0.690 af
Outflow = 7.18 cfs @ 12.19 hrs, Volume= 0.690 af, Atten= 13%, Lag= 7.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.57 fps, Min. Travel Time= 3.7 min
Avg. Velocity = 1.90 fps, Avg. Travel Time= 11.0 min

Peak Storage= 1,645 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.45'
Bank-Full Depth= 1.50' Flow Area= 7.5 sf, Capacity= 80.39 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 8.00'
Length= 1,250.0' Slope= 0.1016 '/
Inlet Invert= 1,900.00', Outlet Invert= 1,773.00'



Summary for Reach R9.3: Swale

Inflow Area = 13.150 ac, 7.18% Impervious, Inflow Depth = 1.67" for 10-yr Local event
Inflow = 17.14 cfs @ 12.06 hrs, Volume= 1.830 af
Outflow = 16.11 cfs @ 12.15 hrs, Volume= 1.830 af, Atten= 6%, Lag= 5.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.28 fps, Min. Travel Time= 2.3 min
Avg. Velocity = 1.82 fps, Avg. Travel Time= 9.2 min

Peak Storage= 2,242 cf @ 12.11 hrs
Average Depth at Peak Storage= 0.67'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 158.64 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 1,000.0' Slope= 0.1120 '/
Inlet Invert= 1,768.00', Outlet Invert= 1,656.00'



Summary for Reach R9.4: Swale

Inflow Area = 5.118 ac, 41.21% Impervious, Inflow Depth = 2.57" for 10-yr Local event
 Inflow = 10.22 cfs @ 12.06 hrs, Volume= 1.096 af
 Outflow = 9.67 cfs @ 12.11 hrs, Volume= 1.096 af, Atten= 5%, Lag= 3.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Max. Velocity= 5.99 fps, Min. Travel Time= 1.5 min
 Avg. Velocity = 1.68 fps, Avg. Travel Time= 5.4 min

Peak Storage= 880 cf @ 12.08 hrs
 Average Depth at Peak Storage= 0.53'
 Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 148.51 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
 Side Slope Z-value= 2.0 '/' Top Width= 10.00'
 Length= 540.0' Slope= 0.0981 '/'
 Inlet Invert= 1,769.00', Outlet Invert= 1,716.00'



Summary for Pond 6.2P: BIORETENTION

Inflow Area = 0.184 ac, 81.25% Impervious, Inflow Depth = 3.56" for 10-yr Local event
 Inflow = 0.72 cfs @ 12.04 hrs, Volume= 0.054 af
 Outflow = 0.23 cfs @ 12.27 hrs, Volume= 0.054 af, Atten= 68%, Lag= 14.0 min
 Primary = 0.23 cfs @ 12.27 hrs, Volume= 0.054 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 1,685.99' Surf.Area= 1,600 sf Storage= 799 cf
 Peak Elev= 1,686.56' @ 12.27 hrs Surf.Area= 3,209 sf Storage= 1,640 cf (841 cf above start)

Plug-Flow detention time= 654.0 min calculated for 0.036 af (66% of inflow)
 Center-of-Mass det. time= 307.3 min (1,091.9 - 784.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,681.00'	320 cf	stone underdrain (Prismatic) Listed below (Recalc) 800 cf Overall x 40.0% Voids
#2	1,682.00'	480 cf	filter media (Prismatic) Listed below (Recalc) 3,200 cf Overall x 15.0% Voids
#3	1,686.00'	3,550 cf	surface storage (Prismatic) Listed below (Recalc)
		4,350 cf	Total Available Storage

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Prepared by The LA group

Printed 4/9/2014

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Page 269

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,681.00	800	0	0
1,682.00	800	800	800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,682.00	800	0	0
1,686.00	800	3,200	3,200

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,400	0	0
1,688.00	2,150	3,550	3,550

Device	Routing	Invert	Outlet Devices
#1	Primary	1,685.99'	0.500 in/hr Exfiltration over Surface area above 1,685.99' Excluded Surface area = 1,600 sf
#2	Primary	1,686.50'	5.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.20 cfs @ 12.27 hrs HW=1,686.56' (Free Discharge)

1=Exfiltration (Exfiltration Controls 0.02 cfs)

2=Broad-Crested Rectangular Weir (Weir Controls 0.18 cfs @ 0.64 fps)

Summary for Pond 6.3P: BIORETENTION

Inflow Area = 0.184 ac, 81.25% Impervious, Inflow Depth = 3.56" for 10-yr Local event
 Inflow = 0.72 cfs @ 12.04 hrs, Volume= 0.054 af
 Outflow = 0.23 cfs @ 12.27 hrs, Volume= 0.054 af, Atten= 68%, Lag= 14.0 min
 Primary = 0.23 cfs @ 12.27 hrs, Volume= 0.054 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Starting Elev= 1,685.99' Surf.Area= 1,600 sf Storage= 799 cf

Peak Elev= 1,686.56' @ 12.27 hrs Surf.Area= 3,209 sf Storage= 1,640 cf (841 cf above start)

Plug-Flow detention time= 654.0 min calculated for 0.036 af (66% of inflow)

Center-of-Mass det. time= 307.3 min (1,091.9 - 784.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,681.00'	320 cf	stone underdrain (Prismatic) Listed below (Recalc) 800 cf Overall x 40.0% Voids
#2	1,682.00'	480 cf	filter media (Prismatic) Listed below (Recalc) 3,200 cf Overall x 15.0% Voids
#3	1,686.00'	3,550 cf	surface storage (Prismatic) Listed below (Recalc)
		4,350 cf	Total Available Storage

08077_Proposed-localprecipdata

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Prepared by The LA group

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Page 270

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,681.00	800	0	0
1,682.00	800	800	800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,682.00	800	0	0
1,686.00	800	3,200	3,200

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,400	0	0
1,688.00	2,150	3,550	3,550

Device	Routing	Invert	Outlet Devices
#1	Primary	1,685.99'	0.500 in/hr Exfiltration over Surface area above 1,685.99' Excluded Surface area = 1,600 sf
#2	Primary	1,686.50'	5.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.20 cfs @ 12.27 hrs HW=1,686.56' (Free Discharge)

1=Exfiltration (Exfiltration Controls 0.02 cfs)

2=Broad-Crested Rectangular Weir (Weir Controls 0.18 cfs @ 0.64 fps)

Summary for Pond 11.3R: DP11.1

Inflow Area = 35.275 ac, 0.39% Impervious, Inflow Depth = 1.50" for 10-yr Local event
 Inflow = 28.59 cfs @ 12.39 hrs, Volume= 4.419 af
 Outflow = 28.58 cfs @ 12.40 hrs, Volume= 4.412 af, Atten= 0%, Lag= 0.1 min
 Primary = 28.58 cfs @ 12.40 hrs, Volume= 4.412 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 2,412.32' @ 12.40 hrs Surf.Area= 323 sf Storage= 723 cf

Plug-Flow detention time= 4.9 min calculated for 4.411 af (100% of inflow)
 Center-of-Mass det. time= 1.2 min (911.4 - 910.2)

Volume	Invert	Avail.Storage	Storage Description
#1	2,410.00'	3,500 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,410.00	300	0	0
2,420.00	400	3,500	3,500

Device	Routing	Invert	Outlet Devices
#1	Primary	2,411.00'	72.0" Round Culvert X 2.00

L= 120.0' CPP, projecting, no headwall, Ke= 0.900
 Inlet / Outlet Invert= 2,411.00' / 2,395.00' S= 0.1333 '/ Cc= 0.900
 n= 0.025 Corrugated metal, Flow Area= 28.27 sf

Primary OutFlow Max=28.52 cfs @ 12.40 hrs HW=2,412.32' (Free Discharge)

1=Culvert (Inlet Controls 28.52 cfs @ 3.09 fps)

Summary for Pond 11.7R: Culvert

Inflow Area = 102.908 ac, 6.37% Impervious, Inflow Depth = 1.67" for 10-yr Local event
 Inflow = 74.16 cfs @ 12.37 hrs, Volume= 14.329 af
 Outflow = 74.16 cfs @ 12.37 hrs, Volume= 14.329 af, Atten= 0%, Lag= 0.0 min
 Primary = 74.16 cfs @ 12.37 hrs, Volume= 14.329 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,893.50' @ 12.37 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,890.00'	48.0" Round Culvert L= 45.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,890.00' / 1,888.00' S= 0.0444 '/ Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf
#2	Primary	1,895.00'	15.0' long x 35.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=73.76 cfs @ 12.37 hrs HW=1,893.48' (Free Discharge)

1=Culvert (Inlet Controls 73.76 cfs @ 6.35 fps)
 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 11.9R: Culvert

Inflow Area = 102.908 ac, 6.37% Impervious, Inflow Depth = 1.67" for 10-yr Local event
 Inflow = 73.63 cfs @ 12.40 hrs, Volume= 14.330 af
 Outflow = 73.45 cfs @ 12.40 hrs, Volume= 14.330 af, Atten= 0%, Lag= 0.3 min
 Primary = 73.45 cfs @ 12.40 hrs, Volume= 14.330 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,775.44' @ 12.40 hrs Surf.Area= 897 sf Storage= 2,067 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 1.4 min (1,069.1 - 1,067.7)

Volume	Invert	Avail.Storage	Storage Description
#1	1,773.00'	10,000 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,773.00	800	0	0
1,783.00	1,200	10,000	10,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,773.00'	60.0" Round Culvert L= 90.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,773.00' / 1,767.00' S= 0.0667 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 19.63 sf
#2	Primary	1,773.00'	48.0" Round Culvert L= 90.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,773.00' / 1,770.00' S= 0.0333 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=73.38 cfs @ 12.40 hrs HW=1,775.43' (Free Discharge)

1=Culvert (Inlet Controls 39.80 cfs @ 4.19 fps)

2=Culvert (Inlet Controls 33.58 cfs @ 4.19 fps)

Summary for Pond P1.1: Pond 1.1

Inflow Area = 15.782 ac, 9.63% Impervious, Inflow Depth = 1.79" for 10-yr Local event
 Inflow = 21.57 cfs @ 12.09 hrs, Volume= 2.351 af
 Outflow = 3.21 cfs @ 13.07 hrs, Volume= 2.350 af, Atten= 85%, Lag= 58.5 min
 Primary = 3.21 cfs @ 13.07 hrs, Volume= 2.350 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Starting Elev= 2,159.55' Surf.Area= 11,012 sf Storage= 25,985 cf

Peak Elev= 2,162.56' @ 13.07 hrs Surf.Area= 18,076 sf Storage= 69,458 cf (43,473 cf above start)

Plug-Flow detention time= 957.6 min calculated for 1.753 af (75% of inflow)

Center-of-Mass det. time= 594.8 min (1,488.5 - 893.7)

Volume	Invert	Avail.Storage	Storage Description
#1	2,156.00'	120,626 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,156.00	3,831	0	0
2,158.00	7,673	11,504	11,504
2,160.00	11,982	19,655	31,159
2,162.00	16,663	28,645	59,804
2,164.00	21,746	38,409	98,213
2,165.00	23,079	22,413	120,626

Device	Routing	Invert	Outlet Devices
#1	Primary	2,158.50'	24.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,158.50' / 2,157.65' S= 0.0170 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf
#2	Device 1	2,159.55'	3.5" Vert. Orifice/Grate C= 0.600
#3	Primary	2,162.00'	24.0" W x 18.0" H Vert. Orifice/Grate C= 0.600
#4	Primary	2,163.75'	15.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=3.20 cfs @ 13.07 hrs HW=2,162.56' (Free Discharge)

- 1=Culvert (Passes 0.54 cfs of 24.92 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.54 cfs @ 8.14 fps)
- 3=Orifice/Grate (Orifice Controls 2.66 cfs @ 2.39 fps)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P1.2: BIORETENTION

Inflow Area = 0.244 ac, 81.20% Impervious, Inflow Depth = 3.45" for 10-yr Local event
 Inflow = 0.94 cfs @ 12.04 hrs, Volume= 0.070 af
 Outflow = 0.18 cfs @ 12.54 hrs, Volume= 0.070 af, Atten= 81%, Lag= 29.9 min
 Primary = 0.18 cfs @ 12.54 hrs, Volume= 0.070 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,226.99' Surf.Area= 4,000 sf Storage= 1,997 cf
 Peak Elev= 2,227.56' @ 12.54 hrs Surf.Area= 6,444 sf Storage= 3,234 cf (1,237 cf above start)

Plug-Flow detention time= 1,033.6 min calculated for 0.024 af (35% of inflow)
 Center-of-Mass det. time= 331.1 min (1,121.9 - 790.8)

Volume	Invert	Avail.Storage	Storage Description
#1	2,222.00'	800 cf	stone underdrain (Prismatic) Listed below (Recalc) 2,000 cf Overall x 40.0% Voids
#2	2,223.00'	1,200 cf	filter media (Prismatic) Listed below (Recalc) 8,000 cf Overall x 15.0% Voids
#3	2,227.00'	5,600 cf	surface storage (Prismatic) Listed below (Recalc)
		7,600 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,222.00	2,000	0	0
2,223.00	2,000	2,000	2,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,223.00	2,000	0	0
2,227.00	2,000	8,000	8,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,227.00	2,000	0	0
2,229.00	3,600	5,600	5,600

Device	Routing	Invert	Outlet Devices
#1	Primary	2,226.99'	0.500 in/hr Exfiltration over Surface area above 2,226.99' Excluded Surface area = 4,000 sf
#2	Primary	2,227.50'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.16 cfs @ 12.54 hrs HW=2,227.56' (Free Discharge)

- 1=Exfiltration (Exfiltration Controls 0.03 cfs)
- 2=Orifice/Grate (Weir Controls 0.13 cfs @ 0.77 fps)

Summary for Pond P1.3: Pond 1.3

Inflow Area = 25.678 ac, 13.90% Impervious, Inflow Depth = 1.84" for 10-yr Local event
 Inflow = 26.30 cfs @ 12.16 hrs, Volume= 3.935 af
 Outflow = 4.46 cfs @ 13.49 hrs, Volume= 3.931 af, Atten= 83%, Lag= 79.5 min
 Primary = 4.46 cfs @ 13.49 hrs, Volume= 3.931 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,164.09' Surf.Area= 14,529 sf Storage= 40,390 cf
 Peak Elev= 2,167.75' @ 13.49 hrs Surf.Area= 25,061 sf Storage= 112,490 cf (72,100 cf above start)

Plug-Flow detention time= 985.4 min calculated for 3.004 af (76% of inflow)
 Center-of-Mass det. time= 618.8 min (1,543.3 - 924.4)

Volume	Invert	Avail.Storage	Storage Description
#1	2,160.00'	209,531 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,160.00	5,797	0	0
2,162.00	9,507	15,304	15,304
2,164.00	14,282	23,789	39,093
2,166.00	19,778	34,060	73,153
2,168.00	25,800	45,578	118,731
2,170.00	32,000	57,800	176,531
2,171.00	34,000	33,000	209,531

Device	Routing	Invert	Outlet Devices
#1	Primary	2,162.00'	36.0" Round Culvert L= 1.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,162.00' / 2,162.00' S= 0.0000 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Device 1	2,164.10'	4.5" Vert. Orifice/Grate C= 0.600
#3	Device 1	2,167.25'	36.0" W x 12.0" H Vert. Orifice/Grate C= 0.600
#4	Primary	2,170.00'	30.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=4.44 cfs @ 13.49 hrs HW=2,167.75' (Free Discharge)

- 1=Culvert (Passes 4.44 cfs of 70.20 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.99 cfs @ 8.97 fps)
- 3=Orifice/Grate (Orifice Controls 3.45 cfs @ 2.28 fps)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P1.4: BIORETENTION

Inflow Area = 1.185 ac, 77.14% Impervious, Inflow Depth = 3.45" for 10-yr Local event
 Inflow = 4.26 cfs @ 12.04 hrs, Volume= 0.340 af
 Outflow = 0.51 cfs @ 12.66 hrs, Volume= 0.340 af, Atten= 88%, Lag= 37.2 min
 Primary = 0.51 cfs @ 12.66 hrs, Volume= 0.340 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,213.99' Surf.Area= 19,000 sf Storage= 9,486 cf
 Peak Elev= 2,214.61' @ 12.66 hrs Surf.Area= 29,219 sf Storage= 15,533 cf (6,047 cf above start)

Plug-Flow detention time= 1,088.5 min calculated for 0.122 af (36% of inflow)
 Center-of-Mass det. time= 331.3 min (1,096.5 - 765.2)

Volume	Invert	Avail.Storage	Storage Description
#1	2,209.00'	3,800 cf	stone underdrain (Prismatic) Listed below (Recalc) 9,500 cf Overall x 40.0% Voids
#2	2,210.00'	5,700 cf	filter media (Prismatic) Listed below (Recalc) 38,000 cf Overall x 15.0% Voids
#3	2,214.00'	21,350 cf	surface storage (Prismatic) Listed below (Recalc)
		30,850 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,209.00	9,500	0	0
2,210.00	9,500	9,500	9,500

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,210.00	9,500	0	0
2,214.00	9,500	38,000	38,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,214.00	9,500	0	0
2,216.00	11,850	21,350	21,350

Device	Routing	Invert	Outlet Devices
#1	Primary	2,209.00'	18.0" Round Culvert L= 325.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,209.00' / 2,208.50' S= 0.0015 1/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 1.77 sf
#2	Primary	2,213.99'	0.500 in/hr Exfiltration over Surface area above 2,213.99' Excluded Surface area = 19,000 sf
#3	Device 1	2,214.50'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Primary	2,215.50'	25.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.50 cfs @ 12.66 hrs HW=2,214.61' (Free Discharge)

- 1=Culvert (Passes 0.38 cfs of 7.72 cfs potential flow)
- 3=Orifice/Grate (Weir Controls 0.38 cfs @ 1.09 fps)
- 2=Exfiltration (Exfiltration Controls 0.12 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.1: P-1

Inflow Area = 13.491 ac, 29.33% Impervious, Inflow Depth = 2.26" for 10-yr Local event
 Inflow = 18.70 cfs @ 12.10 hrs, Volume= 2.546 af
 Outflow = 2.41 cfs @ 13.96 hrs, Volume= 2.544 af, Atten= 87%, Lag= 111.9 min
 Primary = 2.41 cfs @ 13.96 hrs, Volume= 2.544 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 2,298.39' Surf.Area= 9,776 sf Storage= 24,777 cf
 Peak Elev= 2,301.78' @ 13.96 hrs Surf.Area= 19,514 sf Storage= 73,587 cf (48,811 cf above start)

Plug-Flow detention time= 1,099.5 min calculated for 1.975 af (78% of inflow)
 Center-of-Mass det. time= 702.7 min (1,630.2 - 927.5)

Volume	Invert	Avail.Storage	Storage Description
#1	2,294.00'	153,289 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,294.00	2,442	0	0
2,296.00	4,967	7,409	7,409
2,298.00	8,782	13,749	21,158
2,300.00	13,877	22,659	43,817
2,302.00	20,200	34,077	77,894
2,304.00	26,926	47,126	125,020
2,305.00	29,612	28,269	153,289

Device	Routing	Invert	Outlet Devices
#1	Primary	2,295.50'	24.0" Round Culvert L= 60.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,295.50' / 2,292.50' S= 0.0500 1/1' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf
#2	Device 1	2,298.40'	3.5" Vert. Orifice/Grate C= 0.600
#3	Device 1	2,301.25'	18.0" W x 6.0" H Vert. Orifice/Grate C= 0.600
#4	Device 1	2,302.25'	24.0" W x 12.0" H Vert. Orifice/Grate C= 0.600
#5	Primary	2,303.25'	25.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=2.42 cfs @ 13.96 hrs HW=2,301.78' (Free Discharge)

- 1=Culvert (Passes 2.42 cfs of 34.77 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.58 cfs @ 8.66 fps)
- 3=Orifice/Grate (Orifice Controls 1.85 cfs @ 2.46 fps)
- 4=Orifice/Grate (Controls 0.00 cfs)
- 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.10: DRY SWALE

Inflow Area = 1.136 ac, 14.06% Impervious, Inflow Depth = 1.85" for 10-yr Local event
 Inflow = 2.40 cfs @ 12.05 hrs, Volume= 0.175 af
 Outflow = 1.76 cfs @ 12.12 hrs, Volume= 0.175 af, Atten= 27%, Lag= 4.5 min
 Primary = 1.76 cfs @ 12.12 hrs, Volume= 0.175 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,193.19' @ 12.12 hrs Surf.Area= 2,321 sf Storage= 1,788 cf

Plug-Flow detention time= 360.9 min calculated for 0.175 af (100% of inflow)
 Center-of-Mass det. time= 361.9 min (1,226.1 - 864.2)

Volume	Invert	Avail.Storage	Storage Description
#1	2,192.00'	2,580 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,192.00	690	0	0
2,193.50	2,750	2,580	2,580

Device	Routing	Invert	Outlet Devices
#1	Primary	2,192.00'	0.250 in/hr Exfiltration over Surface area
#2	Primary	2,193.00'	8.0' long x 1.0' breadth Broad-Crested Rectangular Weir
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50
			3.00
			Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31
			3.32

Primary OutFlow Max=1.66 cfs @ 12.12 hrs HW=2,193.18' (Free Discharge)

- 1=Exfiltration (Exfiltration Controls 0.01 cfs)
- 2=Broad-Crested Rectangular Weir (Weir Controls 1.65 cfs @ 1.14 fps)

Summary for Pond P11.11: BIORETENTION

Inflow Area = 1.621 ac, 9.86% Impervious, Inflow Depth = 1.76" for 10-yr Local event
 Inflow = 2.17 cfs @ 12.15 hrs, Volume= 0.238 af
 Outflow = 0.47 cfs @ 12.77 hrs, Volume= 0.238 af, Atten= 78%, Lag= 37.6 min
 Primary = 0.47 cfs @ 12.77 hrs, Volume= 0.238 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

08077_Proposed-localprecipdata

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 278

Starting Elev= 2,181.99' Surf.Area= 7,600 sf Storage= 3,794 cf
 Peak Elev= 2,182.71' @ 12.77 hrs Surf.Area= 11,809 sf Storage= 6,649 cf (2,855 cf above start)

Plug-Flow detention time= 935.5 min calculated for 0.151 af (63% of inflow)
 Center-of-Mass det. time= 254.8 min (1,391.2 - 1,136.4)

Volume	Invert	Avail.Storage	Storage Description
#1	2,177.00'	1,520 cf	gravel underdrain (Prismatic) Listed below (Recalc) 3,800 cf Overall x 40.0% Voids
#2	2,178.00'	2,280 cf	filter media (Prismatic) Listed below (Recalc) 15,200 cf Overall x 15.0% Voids
#3	2,182.00'	8,750 cf	surface storage (Prismatic) Listed below (Recalc)
		12,550 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,177.00	3,800	0	0
2,178.00	3,800	3,800	3,800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,178.00	3,800	0	0
2,182.00	3,800	15,200	15,200

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,182.00	3,800	0	0
2,184.00	4,950	8,750	8,750

Device	Routing	Invert	Outlet Devices
#1	Primary	2,181.99'	0.500 in/hr Exfiltration over Surface area above 2,181.99' Excluded Surface area = 7,600 sf
#2	Primary	2,182.50'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	2,183.50'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.48 cfs @ 12.77 hrs HW=2,182.71' (Free Discharge)

- 1=Exfiltration (Exfiltration Controls 0.05 cfs)
- 2=Orifice/Grate (Orifice Controls 0.43 cfs @ 2.21 fps)
- 3=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.12: BIORETENTION

Inflow Area = 1.366 ac, 60.26% Impervious, Inflow Depth = 2.95" for 10-yr Local event
 Inflow = 4.65 cfs @ 12.04 hrs, Volume= 0.336 af
 Outflow = 3.69 cfs @ 12.11 hrs, Volume= 0.344 af, Atten= 21%, Lag= 4.3 min
 Primary = 3.69 cfs @ 12.11 hrs, Volume= 0.344 af

08077_Proposed-localprecipdata

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 279

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,410.99' Surf.Area= 8,000 sf Storage= 3,994 cf
 Peak Elev= 2,425.52' @ 12.11 hrs Surf.Area= 12,800 sf Storage= 8,400 cf (4,406 cf above start)

Plug-Flow detention time= 404.9 min calculated for 0.253 af (75% of inflow)
 Center-of-Mass det. time= 188.0 min (1,004.2 - 816.1)

Volume	Invert	Avail.Storage	Storage Description
#1	2,406.00'	1,600 cf	DRAINAGE LAYER (Prismatic) Listed below (Recalc) 4,000 cf Overall x 40.0% Voids
#2	2,407.00'	2,400 cf	FILTER MEDIA (Prismatic) Listed below (Recalc) 16,000 cf Overall x 15.0% Voids
#3	2,411.00'	4,400 cf	surface storage (Prismatic) Listed below (Recalc)
		8,400 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,406.00	4,000	0	0
2,407.00	4,000	4,000	4,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,407.00	4,000	0	0
2,411.00	4,000	16,000	16,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,411.00	4,000	0	0
2,412.00	4,800	4,400	4,400

Device	Routing	Invert	Outlet Devices
#1	Primary	2,411.50'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	2,410.99'	0.500 in/hr Exfiltration over Surface area above 2,410.99' Excluded Surface area = 8,000 sf

Primary OutFlow Max=3.34 cfs @ 12.11 hrs HW=2,423.57' (Free Discharge)

1=Orifice/Grate (Orifice Controls 3.28 cfs @ 16.73 fps)

2=Exfiltration (Exfiltration Controls 0.06 cfs)

Summary for Pond P11.14: BIORETENTION

Inflow Area = 0.597 ac, 65.96% Impervious, Inflow Depth = 3.15" for 10-yr Local event
 Inflow = 2.14 cfs @ 12.04 hrs, Volume= 0.157 af
 Outflow = 0.36 cfs @ 12.58 hrs, Volume= 0.157 af, Atten= 83%, Lag= 32.5 min
 Primary = 0.36 cfs @ 12.58 hrs, Volume= 0.157 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,410.99' Surf.Area= 8,000 sf Storage= 3,994 cf
 Peak Elev= 2,411.65' @ 12.58 hrs Surf.Area= 12,523 sf Storage= 6,786 cf (2,792 cf above start)

Plug-Flow detention time= 952.0 min calculated for 0.065 af (41% of inflow)

08077_Proposed-localprecipdata

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 280

Center-of-Mass det. time= 328.1 min (1,134.9 - 806.9)

Volume	Invert	Avail.Storage	Storage Description
#1	2,406.00'	1,600 cf	DRAINAGE LAYER (Prismatic) Listed below (Recalc) 4,000 cf Overall x 40.0% Voids
#2	2,407.00'	2,400 cf	FILTER MEDIA (Prismatic) Listed below (Recalc) 16,000 cf Overall x 15.0% Voids
#3	2,411.00'	4,400 cf	surface storage (Prismatic) Listed below (Recalc)
		8,400 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,406.00	4,000	0	0
2,407.00	4,000	4,000	4,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,407.00	4,000	0	0
2,411.00	4,000	16,000	16,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,411.00	4,000	0	0
2,412.00	4,800	4,400	4,400

Device	Routing	Invert	Outlet Devices
#1	Primary	2,411.50'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	2,410.99'	0.500 in/hr Exfiltration over Surface area above 2,410.99' Excluded Surface area = 8,000 sf

Primary OutFlow Max=0.36 cfs @ 12.58 hrs HW=2,411.65' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.28 fps)

2=Exfiltration (Exfiltration Controls 0.05 cfs)

Summary for Pond P11.2: BIORETENTION

Inflow Area = 2.158 ac, 41.85% Impervious, Inflow Depth = 2.54" for 10-yr Local event
 Inflow = 5.65 cfs @ 12.05 hrs, Volume= 0.458 af
 Outflow = 0.93 cfs @ 12.62 hrs, Volume= 0.458 af, Atten= 84%, Lag= 34.0 min
 Primary = 0.93 cfs @ 12.62 hrs, Volume= 0.458 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,371.99' Surf.Area= 21,000 sf Storage= 10,484 cf
 Peak Elev= 2,372.68' @ 12.62 hrs Surf.Area= 32,649 sf Storage= 18,039 cf (7,555 cf above start)

Plug-Flow detention time= 894.9 min calculated for 0.217 af (47% of inflow)
 Center-of-Mass det. time= 311.3 min (1,109.2 - 797.9)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 281

Volume	Invert	Avail.Storage	Storage Description
#1	2,367.00'	4,200 cf	stone underdrain (Prismatic) Listed below (Recalc) 10,500 cf Overall x 40.0% Voids
#2	2,368.00'	6,300 cf	filter media (Prismatic) Listed below (Recalc) 42,000 cf Overall x 15.0% Voids
#3	2,372.00'	24,376 cf	surface storage (Prismatic) Listed below (Recalc)
		34,876 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,367.00	10,500	0	0
2,368.00	10,500	10,500	10,500

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,368.00	10,500	0	0
2,372.00	10,500	42,000	42,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,372.00	10,500	0	0
2,374.00	13,876	24,376	24,376

Device	Routing	Invert	Outlet Devices
#1	Primary	2,367.00'	12.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,367.00' / 2,366.00' S= 0.0200 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf
#2	Device 1	2,371.99'	0.500 in/hr Exfiltration over Surface area above 2,371.99' Excluded Surface area = 21,000 sf
#3	Device 1	2,372.50'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Primary	2,373.25'	15.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.92 cfs @ 12.62 hrs HW=2,372.68' (Free Discharge)

- 1=Culvert (Passes 0.92 cfs of 6.58 cfs potential flow)
- 2=Exfiltration (Exfiltration Controls 0.13 cfs)
- 3=Orifice/Grate (Weir Controls 0.79 cfs @ 1.39 fps)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.4: BIORETENTION

Inflow Area = 1.520 ac, 70.97% Impervious, Inflow Depth = 3.25" for 10-yr Local event
 Inflow = 5.59 cfs @ 12.04 hrs, Volume= 0.411 af
 Outflow = 0.77 cfs @ 12.62 hrs, Volume= 0.411 af, Atten= 86%, Lag= 34.9 min
 Primary = 0.77 cfs @ 12.62 hrs, Volume= 0.411 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 282

Starting Elev= 2,457.99' Surf.Area= 22,000 sf Storage= 10,983 cf
 Peak Elev= 2,458.65' @ 12.62 hrs Surf.Area= 34,170 sf Storage= 18,571 cf (7,587 cf above start)

Plug-Flow detention time= 1,000.5 min calculated for 0.159 af (39% of inflow)
 Center-of-Mass det. time= 338.3 min (1,140.2 - 801.8)

Volume	Invert	Avail.Storage	Storage Description
#1	2,453.00'	4,400 cf	STONE LAYER (Prismatic) Listed below (Recalc) 11,000 cf Overall x 40.0% Voids
#2	2,454.00'	6,600 cf	FILTER MEDIA (Prismatic) Listed below (Recalc) 44,000 cf Overall x 15.0% Voids
#3	2,458.00'	25,580 cf	surface storage (Prismatic) Listed below (Recalc)
		36,580 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,453.00	11,000	0	0
2,454.00	11,000	11,000	11,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,454.00	11,000	0	0
2,458.00	11,000	44,000	44,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,458.00	11,000	0	0
2,460.00	14,580	25,580	25,580

Device	Routing	Invert	Outlet Devices
#1	Primary	2,453.00'	12.0" Round Culvert L= 175.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,453.00' / 2,447.00' S= 0.0343 1/8" Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf
#2	Device 1	2,458.50'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	2,457.99'	0.500 in/hr Exfiltration over Surface area above 2,457.99' Excluded Surface area = 22,000 sf

Primary OutFlow Max=0.76 cfs @ 12.62 hrs HW=2,458.65' (Free Discharge)

- 1=Culvert (Passes 0.76 cfs of 5.40 cfs potential flow)
- 2=Orifice/Grate (Weir Controls 0.62 cfs @ 1.28 fps)
- 3=Exfiltration (Exfiltration Controls 0.14 cfs)

Summary for Pond P11.6: DRY SWALE

Inflow Area = 0.138 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.57 cfs @ 12.04 hrs, Volume= 0.046 af
 Outflow = 0.13 cfs @ 12.45 hrs, Volume= 0.046 af, Atten= 78%, Lag= 24.5 min
 Primary = 0.13 cfs @ 12.45 hrs, Volume= 0.046 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 283

Peak Elev= 2,483.03' @ 12.45 hrs Surf.Area= 1,559 sf Storage= 1,057 cf

Plug-Flow detention time= 1,012.3 min calculated for 0.046 af (100% of inflow)
Center-of-Mass det. time= 1,013.0 min (1,765.3 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	2,482.00'	1,911 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,482.00	500	0	0
2,483.50	2,048	1,911	1,911

Device	Routing	Invert	Outlet Devices
#1	Primary	2,482.00'	0.250 in/hr Exfiltration over Surface area
#2	Primary	2,483.00'	10.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.12 cfs @ 12.45 hrs HW=2,483.03' (Free Discharge)

1=Exfiltration (Exfiltration Controls 0.01 cfs)

2=Broad-Crested Rectangular Weir (Weir Controls 0.11 cfs @ 0.44 fps)

Summary for Pond P11.7: BIORETENTION

Inflow Area = 0.655 ac, 58.70% Impervious, Inflow Depth = 2.95" for 10-yr Local event
Inflow = 2.23 cfs @ 12.04 hrs, Volume= 0.161 af
Outflow = 0.29 cfs @ 12.65 hrs, Volume= 0.161 af, Atten= 87%, Lag= 36.3 min
Primary = 0.29 cfs @ 12.65 hrs, Volume= 0.161 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Starting Elev= 2,247.99' Surf.Area= 9,100 sf Storage= 4,543 cf
Peak Elev= 2,248.63' @ 12.65 hrs Surf.Area= 14,041 sf Storage= 7,518 cf (2,975 cf above start)

Plug-Flow detention time= 1,046.8 min calculated for 0.057 af (35% of inflow)
Center-of-Mass det. time= 351.0 min (1,167.2 - 816.1)

Volume	Invert	Avail.Storage	Storage Description
#1	2,243.00'	1,820 cf	gravel drainage layer (Prismatic) Listed below (Recalc) 4,550 cf Overall x 40.0% Voids
#2	2,244.00'	2,730 cf	filter media (Prismatic) Listed below (Recalc) 18,200 cf Overall x 15.0% Voids
#3	2,248.00'	10,350 cf	surface storage (Prismatic) Listed below (Recalc)
		14,900 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,243.00	4,550	0	0
2,244.00	4,550	4,550	4,550

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,244.00	4,550	0	0
2,248.00	4,550	18,200	18,200

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,248.00	4,550	0	0
2,250.00	5,800	10,350	10,350

Device	Routing	Invert	Outlet Devices
#1	Primary	2,243.00'	18.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,243.00' / 2,240.00' S= 0.0600 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 1.77 sf
#2	Device 1	2,247.99'	0.500 in/hr Exfiltration over Surface area above 2,247.99' Excluded Surface area = 9,100 sf
#3	Device 1	2,248.50'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Primary	2,249.00'	25.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.29 cfs @ 12.65 hrs HW=2,248.63' (Free Discharge)

- 1=Culvert (Passes 0.29 cfs of 18.79 cfs potential flow)
- 2=Exfiltration (Exfiltration Controls 0.06 cfs)
- 3=Orifice/Grate (Weir Controls 0.23 cfs @ 1.16 fps)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.8: BIORETENTION

Inflow Area = 0.365 ac, 78.17% Impervious, Inflow Depth = 3.45" for 10-yr Local event
 Inflow = 1.40 cfs @ 12.04 hrs, Volume= 0.105 af
 Outflow = 0.19 cfs @ 12.62 hrs, Volume= 0.105 af, Atten= 86%, Lag= 34.6 min
 Primary = 0.19 cfs @ 12.62 hrs, Volume= 0.105 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,259.99' Surf.Area= 6,150 sf Storage= 3,070 cf
 Peak Elev= 2,260.60' @ 12.62 hrs Surf.Area= 9,516 sf Storage= 4,995 cf (1,925 cf above start)

Plug-Flow detention time= 1,082.5 min calculated for 0.035 af (33% of inflow)
 Center-of-Mass det. time= 341.2 min (1,131.9 - 790.8)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 285

Volume	Invert	Avail.Storage	Storage Description
#1	2,255.00'	1,230 cf	gravel underdrain (Prismatic) Listed below (Recalc) 3,075 cf Overall x 40.0% Voids
#2	2,256.00'	1,845 cf	filter media (Prismatic) Listed below (Recalc) 12,300 cf Overall x 15.0% Voids
#3	2,260.00'	7,125 cf	surface storage (Prismatic) Listed below (Recalc)
		10,200 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,255.00	3,075	0	0
2,256.00	3,075	3,075	3,075

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,256.00	3,075	0	0
2,260.00	3,075	12,300	12,300

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,260.00	3,075	0	0
2,262.00	4,050	7,125	7,125

Device	Routing	Invert	Outlet Devices
#1	Primary	2,255.00'	12.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,255.00' / 2,254.50' S= 0.0100 1/1 Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf
#2	Device 1	2,259.99'	0.500 in/hr Exfiltration over Surface area above 2,259.99' Excluded Surface area = 6,150 sf
#3	Device 1	2,260.50'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Primary	2,261.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.19 cfs @ 12.62 hrs HW=2,260.60' (Free Discharge)

- 1=Culvert (Passes 0.19 cfs of 6.23 cfs potential flow)
- 2=Exfiltration (Exfiltration Controls 0.04 cfs)
- 3=Orifice/Grate (Weir Controls 0.15 cfs @ 1.01 fps)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.9: BIORETENTION

Inflow Area = 0.575 ac, 22.45% Impervious, Inflow Depth = 2.16" for 10-yr Local event
 Inflow = 1.44 cfs @ 12.04 hrs, Volume= 0.103 af
 Outflow = 0.49 cfs @ 12.29 hrs, Volume= 0.103 af, Atten= 66%, Lag= 14.9 min
 Primary = 0.49 cfs @ 12.29 hrs, Volume= 0.103 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 286

Starting Elev= 2,218.99' Surf.Area= 3,680 sf Storage= 1,837 cf
 Peak Elev= 2,219.56' @ 12.29 hrs Surf.Area= 6,333 sf Storage= 3,260 cf (1,422 cf above start)

Plug-Flow detention time= 714.2 min calculated for 0.061 af (59% of inflow)
 Center-of-Mass det. time= 304.5 min (1,155.2 - 850.7)

Volume	Invert	Avail.Storage	Storage Description
#1	2,214.00'	736 cf	gravel drainage layer (Prismatic) Listed below (Recalc) 1,840 cf Overall x 40.0% Voids
#2	2,215.00'	1,104 cf	filter media (Prismatic) Listed below (Recalc) 7,360 cf Overall x 15.0% Voids
#3	2,219.00'	5,700 cf	surface storage (Prismatic) Listed below (Recalc)
		7,540 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,214.00	1,840	0	0
2,215.00	1,840	1,840	1,840

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,215.00	1,840	0	0
2,219.00	1,840	7,360	7,360

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,219.00	2,400	0	0
2,221.00	3,300	5,700	5,700

Device	Routing	Invert	Outlet Devices
#1	Primary	2,218.99'	0.500 in/hr Exfiltration over Surface area above 2,218.99' Excluded Surface area = 3,680 sf
#2	Primary	2,219.50'	10.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.44 cfs @ 12.29 hrs HW=2,219.56' (Free Discharge)

1=Exfiltration (Exfiltration Controls 0.03 cfs)

2=Broad-Crested Rectangular Weir (Weir Controls 0.41 cfs @ 0.67 fps)

Summary for Pond P12.1: Pond 12.1

Inflow Area = 6.530 ac, 24.64% Impervious, Inflow Depth = 2.18" for 10-yr Local event
 Inflow = 12.21 cfs @ 12.08 hrs, Volume= 1.185 af
 Outflow = 0.82 cfs @ 14.57 hrs, Volume= 1.182 af, Atten= 93%, Lag= 149.4 min
 Primary = 0.82 cfs @ 14.57 hrs, Volume= 1.182 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 287

Starting Elev= 2,296.49' Surf.Area= 8,129 sf Storage= 13,732 cf

Peak Elev= 2,298.96' @ 14.57 hrs Surf.Area= 14,213 sf Storage= 41,156 cf (27,424 cf above start)

Plug-Flow detention time= 1,227.3 min calculated for 0.867 af (73% of inflow)

Center-of-Mass det. time= 797.1 min (1,678.7 - 881.6)

Volume	Invert	Avail.Storage	Storage Description
#1	2,294.00'	120,048 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,294.00	3,070	0	0
2,296.00	6,964	10,034	10,034
2,298.00	11,720	18,684	28,718
2,300.00	16,919	28,639	57,357
2,302.00	22,520	39,439	96,796
2,303.00	23,983	23,252	120,048

Device	Routing	Invert	Outlet Devices
#1	Primary	2,294.00'	24.0" Round Culvert L= 350.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,294.00' / 2,276.00' S= 0.0514 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf
#2	Device 1	2,296.50'	3.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	2,298.75'	18.0" W x 6.0" H Vert. Orifice/Grate C= 0.600
#4	Primary	2,301.00'	10.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.82 cfs @ 14.57 hrs HW=2,298.96' (Free Discharge)

- 1=Culvert (Passes 0.82 cfs of 30.10 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.36 cfs @ 7.36 fps)
- 3=Orifice/Grate (Orifice Controls 0.46 cfs @ 1.47 fps)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P2.1: Pond 2.1

Inflow Area = 16.159 ac, 17.05% Impervious, Inflow Depth = 1.95" for 10-yr Local event
 Inflow = 23.65 cfs @ 12.07 hrs, Volume= 2.620 af
 Outflow = 2.59 cfs @ 13.56 hrs, Volume= 2.615 af, Atten= 89%, Lag= 89.6 min
 Primary = 2.59 cfs @ 13.56 hrs, Volume= 2.615 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Starting Elev= 2,182.99' Surf.Area= 13,676 sf Storage= 30,438 cf

Peak Elev= 2,186.03' @ 13.56 hrs Surf.Area= 21,389 sf Storage= 83,543 cf (53,105 cf above start)

Plug-Flow detention time= 1,057.0 min calculated for 1.917 af (73% of inflow)

Center-of-Mass det. time= 655.2 min (1,532.0 - 876.8)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 288

Volume	Invert	Avail.Storage	Storage Description
#1	2,180.00'	159,675 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,180.00	6,775	0	0
2,182.00	11,300	18,075	18,075
2,184.00	16,100	27,400	45,475
2,186.00	21,300	37,400	82,875
2,188.00	27,000	48,300	131,175
2,189.00	30,000	28,500	159,675

Device	Routing	Invert	Outlet Devices
#1	Primary	2,183.00'	36.0" Round Culvert L= 200.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,183.00' / 2,180.00' S= 0.0150 1/1' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Device 1	2,183.00'	4.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	2,185.50'	18.0" W x 6.0" H Vert. Orifice/Grate C= 0.600
#4	Device 1	2,186.00'	30.0" W x 12.0" H Vert. Orifice/Grate C= 0.600
#5	Primary	2,188.00'	10.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=2.59 cfs @ 13.56 hrs HW=2,186.03' (Free Discharge)

- 1=Culvert (Passes 2.59 cfs of 42.12 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.71 cfs @ 8.15 fps)
- 3=Orifice/Grate (Orifice Controls 1.84 cfs @ 2.45 fps)
- 4=Orifice/Grate (Orifice Controls 0.04 cfs @ 0.57 fps)
- 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P4.1: P-1

Inflow Area = 26.676 ac, 13.82% Impervious, Inflow Depth = 1.87" for 10-yr Local event
 Inflow = 33.40 cfs @ 12.09 hrs, Volume= 4.148 af
 Outflow = 10.97 cfs @ 12.61 hrs, Volume= 4.146 af, Atten= 67%, Lag= 31.0 min
 Primary = 10.97 cfs @ 12.61 hrs, Volume= 4.146 af
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 2,185.50' Surf.Area= 14,800 sf Storage= 41,775 cf
 Peak Elev= 2,188.56' @ 12.61 hrs Surf.Area= 23,758 sf Storage= 100,354 cf (58,579 cf above start)

Plug-Flow detention time= 893.7 min calculated for 3.186 af (77% of inflow)
 Center-of-Mass det. time= 542.4 min (1,464.4 - 922.0)

Volume	Invert	Avail.Storage	Storage Description
#1	2,181.00'	168,440 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

08077_Proposed-localprecipdata

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 289

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,181.00	4,390	0	0
2,182.00	6,270	5,330	5,330
2,184.00	10,900	17,170	22,500
2,186.00	16,100	27,000	49,500
2,188.00	21,900	38,000	87,500
2,190.00	28,500	50,400	137,900
2,191.00	32,580	30,540	168,440

Device	Routing	Invert	Outlet Devices
#1	Primary	2,181.00'	30.0" Round Culvert L= 30.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,181.00' / 2,180.85' S= 0.0050 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf
#2	Device 1	2,185.50'	3.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	2,187.50'	36.0" W x 24.0" H Vert. Orifice/Grate C= 0.600
#4	Device 1	2,189.75'	36.0" W x 12.0" H Vert. Orifice/Grate C= 0.600
#5	Secondary	2,189.75'	20.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=10.95 cfs @ 12.61 hrs HW=2,188.56' (Free Discharge)

- ↑1=Culvert (Passes 10.95 cfs of 59.38 cfs potential flow)
- ↑2=Orifice/Grate (Orifice Controls 0.41 cfs @ 8.25 fps)
- ↑3=Orifice/Grate (Orifice Controls 10.55 cfs @ 3.31 fps)
- ↑4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=2,185.50' (Free Discharge)

- ↑5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P6.1: BIORETENTION

Inflow Area = 0.184 ac, 81.25% Impervious, Inflow Depth = 3.56" for 10-yr Local event
 Inflow = 0.72 cfs @ 12.04 hrs, Volume= 0.054 af
 Outflow = 0.23 cfs @ 12.27 hrs, Volume= 0.054 af, Atten= 68%, Lag= 14.0 min
 Primary = 0.23 cfs @ 12.27 hrs, Volume= 0.054 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Starting Elev= 1,685.99' Surf.Area= 1,600 sf Storage= 799 cf

Peak Elev= 1,686.56' @ 12.27 hrs Surf.Area= 3,209 sf Storage= 1,640 cf (841 cf above start)

Plug-Flow detention time= 654.0 min calculated for 0.036 af (66% of inflow)

Center-of-Mass det. time= 307.3 min (1,091.9 - 784.6)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 290

Volume	Invert	Avail.Storage	Storage Description
#1	1,681.00'	320 cf	stone underdrain (Prismatic) Listed below (Recalc) 800 cf Overall x 40.0% Voids
#2	1,682.00'	480 cf	filter media (Prismatic) Listed below (Recalc) 3,200 cf Overall x 15.0% Voids
#3	1,686.00'	3,550 cf	surface storage (Prismatic) Listed below (Recalc)
		4,350 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,681.00	800	0	0
1,682.00	800	800	800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,682.00	800	0	0
1,686.00	800	3,200	3,200

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,400	0	0
1,688.00	2,150	3,550	3,550

Device	Routing	Invert	Outlet Devices
#1	Primary	1,685.99'	0.500 in/hr Exfiltration over Surface area above 1,685.99' Excluded Surface area = 1,600 sf
#2	Primary	1,686.50'	5.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.20 cfs @ 12.27 hrs HW=1,686.56' (Free Discharge)

1=Exfiltration (Exfiltration Controls 0.02 cfs)

2=Broad-Crested Rectangular Weir (Weir Controls 0.18 cfs @ 0.64 fps)

Summary for Pond P8.1: DRY SWALE

Inflow Area = 2.715 ac, 28.55% Impervious, Inflow Depth = 2.16" for 10-yr Local event
 Inflow = 5.51 cfs @ 12.11 hrs, Volume= 0.489 af
 Outflow = 5.12 cfs @ 12.16 hrs, Volume= 0.489 af, Atten= 7%, Lag= 2.6 min
 Primary = 5.12 cfs @ 12.16 hrs, Volume= 0.489 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,309.38' @ 12.16 hrs Surf.Area= 2,746 sf Storage= 2,405 cf

Plug-Flow detention time= 104.1 min calculated for 0.489 af (100% of inflow)
 Center-of-Mass det. time= 104.0 min (959.5 - 855.6)

08077_Proposed-localprecipdata

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 291

Volume	Invert	Avail.Storage	Storage Description
#1	2,308.00'	2,746 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,308.00	740	0	0
2,309.50	2,921	2,746	2,746

Device	Routing	Invert	Outlet Devices
#1	Primary	2,309.00'	8.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32
#2	Primary	2,308.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=5.08 cfs @ 12.16 hrs HW=2,309.38' (Free Discharge)

1=Broad-Crested Rectangular Weir (Weir Controls 5.05 cfs @ 1.67 fps)

2=Exfiltration (Exfiltration Controls 0.03 cfs)

Summary for Pond P8.2: P-3

Inflow Area = 3.450 ac, 12.00% Impervious, Inflow Depth = 8.09" for 10-yr Local event
 Inflow = 22.31 cfs @ 12.11 hrs, Volume= 2.325 af
 Outflow = 6.61 cfs @ 12.63 hrs, Volume= 2.324 af, Atten= 70%, Lag= 31.3 min
 Primary = 6.61 cfs @ 12.63 hrs, Volume= 2.324 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 1,679.25' Surf.Area= 9,045 sf Storage= 25,779 cf
 Peak Elev= 1,682.25' @ 12.63 hrs Surf.Area= 15,248 sf Storage= 61,936 cf (36,157 cf above start)

Plug-Flow detention time= 837.6 min calculated for 1.732 af (74% of inflow)
 Center-of-Mass det. time= 482.5 min (1,393.8 - 911.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,674.00'	112,698 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,674.00	1,790	0	0
1,676.00	3,789	5,579	5,579
1,678.00	6,620	10,409	15,988
1,680.00	10,500	17,120	33,108
1,682.00	14,650	25,150	58,258
1,684.00	19,510	34,160	92,418
1,685.00	21,050	20,280	112,698

Device	Routing	Invert	Outlet Devices
#1	Primary	1,678.00'	36.0" Round Culvert L= 93.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,678.00' / 1,677.00' S= 0.0108 1/1 Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Device 1	1,679.25'	3.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	1,681.50'	36.0" W x 18.0" H Vert. Orifice/Grate C= 0.600
#4	Primary	1,683.25'	20.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=6.59 cfs @ 12.63 hrs HW=1,682.24' (Free Discharge)

- 1=Culvert (Passes 6.59 cfs of 48.29 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.40 cfs @ 8.16 fps)
- 3=Orifice/Grate (Orifice Controls 6.19 cfs @ 2.77 fps)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P8.3: DRY SWALE

Inflow Area = 1.145 ac, 16.92% Impervious, Inflow Depth = 2.00" for 10-yr Local event
 Inflow = 2.64 cfs @ 12.04 hrs, Volume= 0.191 af
 Outflow = 2.12 cfs @ 12.10 hrs, Volume= 0.191 af, Atten= 20%, Lag= 3.5 min
 Primary = 2.12 cfs @ 12.10 hrs, Volume= 0.191 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,756.21' @ 12.10 hrs Surf.Area= 2,272 sf Storage= 1,776 cf

Plug-Flow detention time= 221.9 min calculated for 0.191 af (100% of inflow)
 Center-of-Mass det. time= 223.1 min (1,080.6 - 857.5)

Volume	Invert	Avail.Storage	Storage Description
#1	1,755.00'	2,487 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,755.00	660	0	0
1,756.50	2,656	2,487	2,487

Device	Routing	Invert	Outlet Devices
#1	Primary	1,756.00'	8.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32
#2	Primary	1,755.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=2.09 cfs @ 12.10 hrs HW=1,756.21' (Free Discharge)

- 1=Broad-Crested Rectangular Weir (Weir Controls 2.07 cfs @ 1.23 fps)
- 2=Exfiltration (Exfiltration Controls 0.03 cfs)

Summary for Pond P8.4: P-3

Inflow Area = 26.981 ac, 22.99% Impervious, Inflow Depth = 1.25" for 10-yr Local event
 Inflow = 26.76 cfs @ 12.09 hrs, Volume= 2.820 af
 Outflow = 3.25 cfs @ 13.30 hrs, Volume= 2.820 af, Atten= 88%, Lag= 72.5 min
 Primary = 3.25 cfs @ 13.30 hrs, Volume= 2.820 af
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 1,665.50' Surf.Area= 12,392 sf Storage= 32,108 cf
 Peak Elev= 1,668.97' @ 13.30 hrs Surf.Area= 20,055 sf Storage= 87,887 cf (55,779 cf above start)

Plug-Flow detention time= 1,120.9 min calculated for 2.082 af (74% of inflow)
 Center-of-Mass det. time= 703.8 min (1,606.4 - 902.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,662.00'	160,100 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,662.00	5,962	0	0
1,664.00	9,630	15,592	15,592
1,666.00	13,312	22,942	38,534
1,668.00	17,713	31,025	69,559
1,670.00	22,540	40,253	109,812
1,672.00	27,748	50,288	160,100

Device	Routing	Invert	Outlet Devices
#1	Primary	1,663.75'	30.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,663.75' / 1,663.50' S= 0.0050 1/ S= 0.0050 1/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf
#2	Device 1	1,665.50'	3.7" Vert. Orifice/Grate C= 0.600
#3	Device 1	1,668.50'	30.0" W x 24.0" H Vert. Orifice/Grate C= 0.600
#4	Secondary	1,670.50'	20.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=3.24 cfs @ 13.30 hrs HW=1,668.97' (Free Discharge)

- ↑1=Culvert (Passes 3.24 cfs of 42.14 cfs potential flow)
- ↑2=Orifice/Grate (Orifice Controls 0.65 cfs @ 8.77 fps)
- ↑3=Orifice/Grate (Orifice Controls 2.59 cfs @ 2.20 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,665.50' (Free Discharge)

- ↑4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P8.5: I-2

Inflow Area = 2.352 ac, 39.21% Impervious, Inflow Depth = 2.32" for 10-yr Local event
 Inflow = 6.36 cfs @ 12.04 hrs, Volume= 0.456 af
 Outflow = 0.18 cfs @ 17.87 hrs, Volume= 0.456 af, Atten= 97%, Lag= 349.6 min
 Discarded = 0.18 cfs @ 17.87 hrs, Volume= 0.456 af
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,678.17' @ 17.87 hrs Surf.Area= 5,802 sf Storage= 12,547 cf

Plug-Flow detention time= 892.0 min calculated for 0.456 af (100% of inflow)
 Center-of-Mass det. time= 892.5 min (1,736.1 - 843.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,674.00'	34,944 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,674.00	465	0	0
1,676.00	2,800	3,265	3,265
1,678.00	5,541	8,341	11,606
1,680.00	8,686	14,227	25,833
1,681.00	9,535	9,111	34,944

Device	Routing	Invert	Outlet Devices
#1	Discarded	1,674.00'	1.340 in/hr Exfiltration over Surface area
#2	Primary	1,674.00'	24.0" Round Culvert L= 500.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,674.00' / 1,662.50' S= 0.0230 1/1 Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf
#3	Device 2	1,678.20'	2.0" Vert. Orifice/Grate C= 0.600
#4	Device 2	1,679.50'	24.0" x 24.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#5	Primary	1,680.00'	20.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Discarded OutFlow Max=0.18 cfs @ 17.87 hrs HW=1,678.17' (Free Discharge)
 ↑1=Exfiltration (Exfiltration Controls 0.18 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,674.00' (Free Discharge)
 ↑2=Culvert (Controls 0.00 cfs)
 ↑3=Orifice/Grate (Controls 0.00 cfs)
 ↑4=Orifice/Grate (Controls 0.00 cfs)
 ↑5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P9.2: Pond 9.2

Inflow Area = 12.954 ac, 25.61% Impervious, Inflow Depth = 2.18" for 10-yr Local event
 Inflow = 22.35 cfs @ 12.07 hrs, Volume= 2.352 af
 Outflow = 2.08 cfs @ 13.75 hrs, Volume= 2.351 af, Atten= 91%, Lag= 101.3 min
 Primary = 2.08 cfs @ 13.75 hrs, Volume= 2.351 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 1,670.00' Surf.Area= 13,607 sf Storage= 25,872 cf
 Peak Elev= 1,672.88' @ 13.75 hrs Surf.Area= 20,517 sf Storage= 74,917 cf (49,045 cf above start)

Plug-Flow detention time= 1,260.1 min calculated for 1.757 af (75% of inflow)
 Center-of-Mass det. time= 817.3 min (1,707.3 - 890.0)

Volume	Invert	Avail.Storage	Storage Description
#1	1,666.00'	166,295 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,666.00	3,085	0	0
1,668.00	4,590	7,675	7,675
1,670.00	13,607	18,197	25,872
1,672.00	18,274	31,881	57,753
1,674.00	23,344	41,618	99,371
1,676.00	28,815	52,159	151,530
1,676.50	30,246	14,765	166,295

Device	Routing	Invert	Outlet Devices
#1	Primary	1,668.00'	24.0" Round Culvert L= 55.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,668.00' / 1,666.00' S= 0.0364 1/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf
#2	Device 1	1,670.00'	3.5" Vert. Orifice/Grate C= 0.600
#3	Device 1	1,672.50'	24.0" W x 6.0" H Vert. Orifice/Grate C= 0.600
#4	Device 1	1,673.50'	24.0" W x 12.0" H Vert. Orifice/Grate C= 0.600
#5	Primary	1,674.50'	20.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=2.07 cfs @ 13.75 hrs HW=1,672.88' (Free Discharge)

- 1=Culvert (Passes 2.07 cfs of 29.81 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.53 cfs @ 7.97 fps)
- 3=Orifice/Grate (Orifice Controls 1.53 cfs @ 1.99 fps)
- 4=Orifice/Grate (Controls 0.00 cfs)
- 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond R1.10: PIPE

Inflow Area = 21.914 ac, 7.72% Impervious, Inflow Depth = 1.67" for 10-yr Local event
 Inflow = 22.30 cfs @ 12.19 hrs, Volume= 3.048 af
 Outflow = 22.30 cfs @ 12.19 hrs, Volume= 3.048 af, Atten= 0%, Lag= 0.0 min
 Primary = 22.30 cfs @ 12.19 hrs, Volume= 3.048 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,261.91' @ 12.19 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,260.00'	36.0" Round Culvert L= 1,125.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,260.00' / 2,185.00' S= 0.0667 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=22.21 cfs @ 12.19 hrs HW=2,261.90' (Free Discharge)

↑1=Culvert (Inlet Controls 22.21 cfs @ 4.70 fps)

Summary for Pond R1.11: Pipe

Inflow Area = 22.468 ac, 9.65% Impervious, Inflow Depth = 1.72" for 10-yr Local event
 Inflow = 22.98 cfs @ 12.19 hrs, Volume= 3.216 af
 Outflow = 22.98 cfs @ 12.19 hrs, Volume= 3.216 af, Atten= 0%, Lag= 0.0 min
 Primary = 22.98 cfs @ 12.19 hrs, Volume= 3.216 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,191.72' @ 12.19 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,190.00'	48.0" Round Culvert L= 230.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,190.00' / 2,180.00' S= 0.0435 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 12.57 sf

Primary OutFlow Max=22.84 cfs @ 12.19 hrs HW=2,191.71' (Free Discharge)

↑1=Culvert (Inlet Controls 22.84 cfs @ 4.45 fps)

Summary for Pond R1.3: Culvert

Inflow Area = 10.291 ac, 2.57% Impervious, Inflow Depth = 1.56" for 10-yr Local event
 Inflow = 12.58 cfs @ 12.14 hrs, Volume= 1.335 af
 Outflow = 12.58 cfs @ 12.14 hrs, Volume= 1.335 af, Atten= 0%, Lag= 0.0 min
 Primary = 12.58 cfs @ 12.14 hrs, Volume= 1.335 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,401.47' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,400.00'	36.0" Round Culvert L= 1,255.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,400.00' / 2,318.00' S= 0.0653 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=12.46 cfs @ 12.14 hrs HW=2,401.46' (Free Discharge)

↑1=Culvert (Inlet Controls 12.46 cfs @ 3.64 fps)

Summary for Pond R1.4: pipe

Inflow Area = 10.291 ac, 2.57% Impervious, Inflow Depth = 1.56" for 10-yr Local event
 Inflow = 12.58 cfs @ 12.14 hrs, Volume= 1.335 af
 Outflow = 12.58 cfs @ 12.14 hrs, Volume= 1.335 af, Atten= 0%, Lag= 0.0 min
 Primary = 12.58 cfs @ 12.14 hrs, Volume= 1.335 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,301.37' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,300.00'	36.0" Round Culvert L= 950.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,300.00' / 2,212.00' S= 0.0926 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=12.46 cfs @ 12.14 hrs HW=2,301.37' (Free Discharge)

↑1=Culvert (Inlet Controls 12.46 cfs @ 3.98 fps)

Summary for Pond R1.5: Pipe

Inflow Area = 11.201 ac, 9.91% Impervious, Inflow Depth = 1.74" for 10-yr Local event
 Inflow = 14.84 cfs @ 12.12 hrs, Volume= 1.621 af
 Outflow = 14.84 cfs @ 12.12 hrs, Volume= 1.621 af, Atten= 0%, Lag= 0.0 min
 Primary = 14.84 cfs @ 12.12 hrs, Volume= 1.621 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,196.51' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,195.00'	36.0" Round Culvert L= 120.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,195.00' / 2,180.00' S= 0.1250 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=14.59 cfs @ 12.12 hrs HW=2,196.49' (Free Discharge)

↑1=Culvert (Inlet Controls 14.59 cfs @ 4.16 fps)

Summary for Pond R1.6: pipe

Inflow Area = 0.909 ac, 92.98% Impervious, Inflow Depth = 3.78" for 10-yr Local event
 Inflow = 3.69 cfs @ 12.04 hrs, Volume= 0.286 af
 Outflow = 3.69 cfs @ 12.04 hrs, Volume= 0.286 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.69 cfs @ 12.04 hrs, Volume= 0.286 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,208.09' @ 12.04 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,207.00'	24.0" Round Culvert L= 260.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,207.00' / 2,205.70' S= 0.0050 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.57 cfs @ 12.04 hrs HW=2,208.07' (Free Discharge)

↑1=Culvert (Barrel Controls 3.57 cfs @ 3.04 fps)

Summary for Pond R1.7: Culvert

Inflow Area = 3.337 ac, 12.31% Impervious, Inflow Depth = 1.96" for 10-yr Local event
 Inflow = 5.74 cfs @ 12.05 hrs, Volume= 0.546 af
 Outflow = 5.74 cfs @ 12.05 hrs, Volume= 0.546 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.74 cfs @ 12.05 hrs, Volume= 0.546 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,206.50' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,206.00'	60.0" W x 36.0" H Box Culvert L= 50.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,206.00' / 2,205.00' S= 0.0200 '/ Cc= 0.900 n= 0.013 Concrete, trowel finish, Flow Area= 15.00 sf

Primary OutFlow Max=5.66 cfs @ 12.05 hrs HW=2,206.50' (Free Discharge)

↑1=Culvert (Inlet Controls 5.66 cfs @ 2.27 fps)

Summary for Pond R1.9: PIPE

Inflow Area = 17.718 ac, 2.79% Impervious, Inflow Depth = 1.56" for 10-yr Local event
 Inflow = 18.73 cfs @ 12.21 hrs, Volume= 2.307 af
 Outflow = 18.73 cfs @ 12.21 hrs, Volume= 2.307 af, Atten= 0%, Lag= 0.0 min
 Primary = 18.73 cfs @ 12.21 hrs, Volume= 2.307 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,296.72' @ 12.21 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,295.00'	36.0" Round Culvert L= 350.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,295.00' / 2,262.00' S= 0.0943 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=18.54 cfs @ 12.21 hrs HW=2,296.71' (Free Discharge)

↑1=Culvert (Inlet Controls 18.54 cfs @ 4.45 fps)

Summary for Pond R11.11: CULVERT

Inflow Area = 4.758 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
 Inflow = 6.85 cfs @ 12.08 hrs, Volume= 0.592 af
 Outflow = 6.85 cfs @ 12.08 hrs, Volume= 0.592 af, Atten= 0%, Lag= 0.0 min
 Primary = 6.85 cfs @ 12.08 hrs, Volume= 0.592 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,479.05' @ 12.08 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,478.00'	30.0" Round Culvert L= 35.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 2,478.00' / 2,468.00' S= 0.2857 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf

Primary OutFlow Max=6.70 cfs @ 12.08 hrs HW=2,479.04' (Free Discharge)
 ↑1=Culvert (Inlet Controls 6.70 cfs @ 3.47 fps)

Summary for Pond R11.15: CB

Inflow Area = 11.496 ac, 0.90% Impervious, Inflow Depth = 1.51" for 10-yr Local event
 Inflow = 12.21 cfs @ 12.22 hrs, Volume= 1.451 af
 Outflow = 12.21 cfs @ 12.22 hrs, Volume= 1.451 af, Atten= 0%, Lag= 0.0 min
 Primary = 12.21 cfs @ 12.22 hrs, Volume= 1.451 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,453.56' @ 12.22 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,452.00'	36.0" Round Culvert L= 110.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,452.00' / 2,451.00' S= 0.0091 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=12.06 cfs @ 12.22 hrs HW=2,453.55' (Free Discharge)
 ↑1=Culvert (Barrel Controls 12.06 cfs @ 4.78 fps)

Summary for Pond R11.17: CB

Inflow Area = 11.507 ac, 0.00% Impervious, Inflow Depth = 1.43" for 10-yr Local event
 Inflow = 11.56 cfs @ 12.12 hrs, Volume= 1.372 af
 Outflow = 11.56 cfs @ 12.12 hrs, Volume= 1.372 af, Atten= 0%, Lag= 0.0 min
 Primary = 11.56 cfs @ 12.12 hrs, Volume= 1.372 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,436.31' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,435.00'	36.0" Round Culvert L= 290.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,435.00' / 2,410.00' S= 0.0862 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=11.36 cfs @ 12.12 hrs HW=2,436.30' (Free Discharge)

↑1=Culvert (Inlet Controls 11.36 cfs @ 3.88 fps)

Summary for Pond R11.19: CB

Inflow Area = 1.118 ac, 74.27% Impervious, Inflow Depth = 3.33" for 10-yr Local event
 Inflow = 4.14 cfs @ 12.04 hrs, Volume= 0.310 af
 Outflow = 4.14 cfs @ 12.04 hrs, Volume= 0.310 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.14 cfs @ 12.04 hrs, Volume= 0.310 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,420.76' @ 12.04 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,420.00'	36.0" Round Culvert L= 290.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,420.00' / 2,395.00' S= 0.0862 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=4.02 cfs @ 12.04 hrs HW=2,420.74' (Free Discharge)

↑1=Culvert (Inlet Controls 4.02 cfs @ 2.94 fps)

Summary for Pond R11.20: CULVERT

Inflow Area = 5.469 ac, 0.00% Impervious, Inflow Depth = 1.56" for 10-yr Local event
 Inflow = 7.01 cfs @ 12.16 hrs, Volume= 0.711 af
 Outflow = 7.01 cfs @ 12.16 hrs, Volume= 0.711 af, Atten= 0%, Lag= 0.0 min
 Primary = 7.01 cfs @ 12.16 hrs, Volume= 0.711 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,460.07' @ 12.16 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,459.00'	30.0" Round Culvert L= 900.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 2,459.00' / 2,394.00' S= 0.0722 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf

Primary OutFlow Max=6.94 cfs @ 12.16 hrs HW=2,460.06' (Free Discharge)

↑1=Culvert (Inlet Controls 6.94 cfs @ 3.51 fps)

Summary for Pond R11.21: CULVERT

Inflow Area = 8.551 ac, 23.95% Impervious, Inflow Depth = 2.14" for 10-yr Local event
 Inflow = 13.15 cfs @ 12.11 hrs, Volume= 1.522 af
 Outflow = 13.15 cfs @ 12.11 hrs, Volume= 1.522 af, Atten= 0%, Lag= 0.0 min
 Primary = 13.15 cfs @ 12.11 hrs, Volume= 1.522 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,395.41' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,394.00'	36.0" Round Culvert L= 900.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,394.00' / 2,328.00' S= 0.0733 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=12.69 cfs @ 12.11 hrs HW=2,395.38' (Free Discharge)

↑1=Culvert (Inlet Controls 12.69 cfs @ 4.00 fps)

Summary for Pond R11.22: CB

Inflow Area = 0.233 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.97 cfs @ 12.04 hrs, Volume= 0.078 af
 Outflow = 0.97 cfs @ 12.04 hrs, Volume= 0.078 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.97 cfs @ 12.04 hrs, Volume= 0.078 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,460.39' @ 12.04 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,460.00'	36.0" Round Culvert L= 770.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,460.00' / 2,450.00' S= 0.0130 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=0.93 cfs @ 12.04 hrs HW=2,460.38' (Free Discharge)

↑1=Culvert (Barrel Controls 0.93 cfs @ 2.71 fps)

Summary for Pond R11.24: CB

Inflow Area = 5.910 ac, 0.00% Impervious, Inflow Depth = 1.44" for 10-yr Local event
 Inflow = 5.58 cfs @ 12.25 hrs, Volume= 0.707 af
 Outflow = 5.58 cfs @ 12.25 hrs, Volume= 0.707 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.58 cfs @ 12.25 hrs, Volume= 0.707 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,487.01' @ 12.25 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,486.00'	30.0" Round Culvert L= 695.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,486.00' / 2,436.00' S= 0.0719 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf

Primary OutFlow Max=5.58 cfs @ 12.25 hrs HW=2,487.01' (Free Discharge)

↑1=Culvert (Inlet Controls 5.58 cfs @ 3.01 fps)

Summary for Pond R11.26: BOX CULVERT

Inflow Area = 16.103 ac, 0.00% Impervious, Inflow Depth = 1.50" for 10-yr Local event
 Inflow = 17.40 cfs @ 12.17 hrs, Volume= 2.009 af
 Outflow = 17.40 cfs @ 12.17 hrs, Volume= 2.009 af, Atten= 0%, Lag= 0.0 min
 Primary = 17.40 cfs @ 12.17 hrs, Volume= 2.009 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,311.15' @ 12.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,310.00'	60.0" W x 36.0" H Box Culvert L= 50.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,310.00' / 2,309.00' S= 0.0200 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 15.00 sf

Primary OutFlow Max=17.12 cfs @ 12.17 hrs HW=2,311.13' (Free Discharge)
 ↑1=Culvert (Inlet Controls 17.12 cfs @ 3.02 fps)

Summary for Pond R11.32: CULVERT

Inflow Area = 12.144 ac, 0.85% Impervious, Inflow Depth = 1.51" for 10-yr Local event
 Inflow = 12.49 cfs @ 12.25 hrs, Volume= 1.528 af
 Outflow = 12.49 cfs @ 12.25 hrs, Volume= 1.528 af, Atten= 0%, Lag= 0.0 min
 Primary = 12.49 cfs @ 12.25 hrs, Volume= 1.528 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,435.56' @ 12.25 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,434.00'	36.0" Round Culvert L= 110.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 2,434.00' / 2,425.00' S= 0.0818 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=12.47 cfs @ 12.25 hrs HW=2,435.56' (Free Discharge)
 ↑1=Culvert (Inlet Controls 12.47 cfs @ 3.36 fps)

Summary for Pond R12.1: CB

Inflow Area = 0.419 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 1.74 cfs @ 12.04 hrs, Volume= 0.140 af
 Outflow = 1.74 cfs @ 12.04 hrs, Volume= 0.140 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.74 cfs @ 12.04 hrs, Volume= 0.140 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,309.92' @ 12.04 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,309.30'	24.0" Round Culvert L= 630.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,309.30' / 2,303.00' S= 0.0100 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf

Primary OutFlow Max=1.68 cfs @ 12.04 hrs HW=2,309.91' (Free Discharge)

↑1=Culvert (Barrel Controls 1.68 cfs @ 3.10 fps)

Summary for Pond R2.1: PIPE

Inflow Area = 6.131 ac, 1.87% Impervious, Inflow Depth = 1.47" for 10-yr Local event
 Inflow = 6.62 cfs @ 12.18 hrs, Volume= 0.753 af
 Outflow = 6.62 cfs @ 12.18 hrs, Volume= 0.753 af, Atten= 0%, Lag= 0.0 min
 Primary = 6.62 cfs @ 12.18 hrs, Volume= 0.753 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,288.97' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,288.00'	36.0" Round Culvert L= 1,185.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,288.00' / 2,215.00' S= 0.0616 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=6.54 cfs @ 12.18 hrs HW=2,288.96' (Free Discharge)

↑1=Culvert (Inlet Controls 6.54 cfs @ 3.34 fps)

Summary for Pond R2.2: PIPE

Inflow Area = 7.598 ac, 20.81% Impervious, Inflow Depth = 1.96" for 10-yr Local event
 Inflow = 10.02 cfs @ 12.05 hrs, Volume= 1.242 af
 Outflow = 10.02 cfs @ 12.05 hrs, Volume= 1.242 af, Atten= 0%, Lag= 0.0 min
 Primary = 10.02 cfs @ 12.05 hrs, Volume= 1.242 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,214.21' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,213.00'	36.0" Round Culvert L= 795.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,213.00' / 2,190.00' S= 0.0289 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=10.02 cfs @ 12.05 hrs HW=2,214.21' (Free Discharge)

↑1=Culvert (Inlet Controls 10.02 cfs @ 3.75 fps)

Summary for Pond R2.3: catch basin

Inflow Area = 5.677 ac, 7.08% Impervious, Inflow Depth = 1.73" for 10-yr Local event
 Inflow = 7.79 cfs @ 12.10 hrs, Volume= 0.820 af
 Outflow = 7.79 cfs @ 12.10 hrs, Volume= 0.820 af, Atten= 0%, Lag= 0.0 min
 Primary = 7.79 cfs @ 12.10 hrs, Volume= 0.820 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,265.24' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,270.00'	24.0" x 24.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	2,264.00'	24.0" Round Culvert L= 1,755.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,264.00' / 2,191.00' S= 0.0416 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf

Primary OutFlow Max=7.77 cfs @ 12.10 hrs HW=2,265.24' (Free Discharge)

- ↑1=Orifice/Grate (Controls 0.00 cfs)
- ↳2=Culvert (Inlet Controls 7.77 cfs @ 3.79 fps)

Summary for Pond R2.5: Road culvert

Inflow Area = 2.890 ac, 13.90% Impervious, Inflow Depth = 1.90" for 10-yr Local event
 Inflow = 4.38 cfs @ 12.05 hrs, Volume= 0.458 af
 Outflow = 4.38 cfs @ 12.05 hrs, Volume= 0.458 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.38 cfs @ 12.05 hrs, Volume= 0.458 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,229.83' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,229.00'	36.0" Round Culvert L= 75.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,229.00' / 2,226.00' S= 0.0400 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=4.33 cfs @ 12.05 hrs HW=2,229.83' (Free Discharge)

- ↑1=Culvert (Inlet Controls 4.33 cfs @ 2.73 fps)

Summary for Pond R2.6: Road Culvert

Inflow Area = 0.737 ac, 12.46% Impervious, Inflow Depth = 1.75" for 10-yr Local event
 Inflow = 1.02 cfs @ 12.05 hrs, Volume= 0.107 af
 Outflow = 1.02 cfs @ 12.05 hrs, Volume= 0.107 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.02 cfs @ 12.05 hrs, Volume= 0.107 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,216.48' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,216.00'	18.0" Round Culvert L= 30.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,216.00' / 2,215.00' S= 0.0333 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.01 cfs @ 12.05 hrs HW=2,216.48' (Free Discharge)

- ↑1=Culvert (Inlet Controls 1.01 cfs @ 2.08 fps)

Summary for Pond R2.8: cb

Inflow Area = 7.441 ac, 15.27% Impervious, Inflow Depth = 1.95" for 10-yr Local event
 Inflow = 9.04 cfs @ 12.13 hrs, Volume= 1.210 af
 Outflow = 9.04 cfs @ 12.13 hrs, Volume= 1.210 af, Atten= 0%, Lag= 0.0 min
 Primary = 9.04 cfs @ 12.13 hrs, Volume= 1.210 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,188.15' @ 12.13 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,187.00'	36.0" Round Culvert L= 450.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,187.00' / 2,160.00' S= 0.0600 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=8.90 cfs @ 12.13 hrs HW=2,188.14' (Free Discharge)

↑1=Culvert (Inlet Controls 8.90 cfs @ 3.63 fps)

Summary for Pond R4.1: catch basin

Inflow Area = 15.597 ac, 8.50% Impervious, Inflow Depth = 1.71" for 10-yr Local event
 Inflow = 19.87 cfs @ 12.13 hrs, Volume= 2.217 af
 Outflow = 19.87 cfs @ 12.13 hrs, Volume= 2.217 af, Atten= 0%, Lag= 0.0 min
 Primary = 19.87 cfs @ 12.13 hrs, Volume= 2.217 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,288.72' @ 12.13 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,284.00'	36.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,284.00' / 2,283.50' S= 0.0100 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Device 1	2,288.00'	30.0" x 30.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=19.58 cfs @ 12.13 hrs HW=2,288.71' (Free Discharge)

↑1=Culvert (Passes 19.58 cfs of 54.91 cfs potential flow)

↑2=Orifice/Grate (Weir Controls 19.58 cfs @ 2.76 fps)

Summary for Pond R4.3: culvert

Inflow Area = 17.508 ac, 10.00% Impervious, Inflow Depth = 1.74" for 10-yr Local event
 Inflow = 21.60 cfs @ 12.14 hrs, Volume= 2.537 af
 Outflow = 21.60 cfs @ 12.14 hrs, Volume= 2.537 af, Atten= 0%, Lag= 0.0 min
 Primary = 21.60 cfs @ 12.14 hrs, Volume= 2.537 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,210.02' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,213.00'	36.0" x 36.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	2,208.00'	36.0" Round Culvert L= 210.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,208.00' / 2,192.00' S= 0.0762 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=21.46 cfs @ 12.14 hrs HW=2,210.01' (Free Discharge)

- ↑1=Orifice/Grate (Controls 0.00 cfs)
- ↑2=Culvert (Inlet Controls 21.46 cfs @ 4.26 fps)

Summary for Pond R4.4: CULVERT

Inflow Area = 26.676 ac, 13.82% Impervious, Inflow Depth > 1.86" for 10-yr Local event
 Inflow = 10.97 cfs @ 12.61 hrs, Volume= 4.146 af
 Outflow = 10.97 cfs @ 12.61 hrs, Volume= 4.146 af, Atten= 0%, Lag= 0.0 min
 Primary = 10.97 cfs @ 12.61 hrs, Volume= 4.146 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,182.16' @ 12.61 hrs
 Flood Elev= 2,085.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	2,180.80'	36.0" Round Culvert L= 580.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,180.80' / 2,067.00' S= 0.1962 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=10.96 cfs @ 12.61 hrs HW=2,182.16' (Free Discharge)

- ↑1=Culvert (Inlet Controls 10.96 cfs @ 3.51 fps)

Summary for Pond R4.6: CULVERT

Inflow Area = 32.763 ac, 11.26% Impervious, Inflow Depth > 1.82" for 10-yr Local event
 Inflow = 13.42 cfs @ 12.55 hrs, Volume= 4.958 af
 Outflow = 13.42 cfs @ 12.55 hrs, Volume= 4.958 af, Atten= 0%, Lag= 0.0 min
 Primary = 13.42 cfs @ 12.55 hrs, Volume= 4.958 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,005.53' @ 12.55 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,004.00'	36.0" Round Culvert L= 50.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,004.00' / 2,003.00' S= 0.0200 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=13.42 cfs @ 12.55 hrs HW=2,005.53' (Free Discharge)

- ↑1=Culvert (Inlet Controls 13.42 cfs @ 3.71 fps)

Summary for Pond R4.8: CULVERT

Inflow Area = 3.559 ac, 0.00% Impervious, Inflow Depth = 1.63" for 10-yr Local event
 Inflow = 6.52 cfs @ 12.05 hrs, Volume= 0.484 af
 Outflow = 6.52 cfs @ 12.05 hrs, Volume= 0.484 af, Atten= 0%, Lag= 0.0 min
 Primary = 6.52 cfs @ 12.05 hrs, Volume= 0.484 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,093.20' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,092.00'	24.0" Round Culvert L= 150.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,092.00' / 2,067.00' S= 0.1667 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.44 cfs @ 12.05 hrs HW=2,093.20' (Free Discharge)
 ↑1=Culvert (Inlet Controls 6.44 cfs @ 3.29 fps)

Summary for Pond R5.1: CULVERT

Inflow Area = 8.776 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
 Inflow = 13.47 cfs @ 12.07 hrs, Volume= 1.091 af
 Outflow = 13.47 cfs @ 12.07 hrs, Volume= 1.091 af, Atten= 0%, Lag= 0.0 min
 Primary = 13.47 cfs @ 12.07 hrs, Volume= 1.091 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,905.59' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,904.00'	33.0" Round Culvert L= 810.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 1,904.00' / 1,823.00' S= 0.1000 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 5.94 sf

Primary OutFlow Max=12.94 cfs @ 12.07 hrs HW=1,905.55' (Free Discharge)
 ↑1=Culvert (Inlet Controls 12.94 cfs @ 3.74 fps)

Summary for Pond R8.1: CULVERT

Inflow Area = 2.715 ac, 28.55% Impervious, Inflow Depth = 2.16" for 10-yr Local event
 Inflow = 5.12 cfs @ 12.16 hrs, Volume= 0.489 af
 Outflow = 5.12 cfs @ 12.16 hrs, Volume= 0.489 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.12 cfs @ 12.16 hrs, Volume= 0.489 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,309.05' @ 12.16 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,308.00'	24.0" Round Culvert L= 275.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,308.00' / 2,304.00' S= 0.0145 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf

Primary OutFlow Max=5.08 cfs @ 12.16 hrs HW=2,309.04' (Free Discharge)

↑1=Culvert (Inlet Controls 5.08 cfs @ 3.07 fps)

Summary for Pond R8.10: CB

Inflow Area = 15.958 ac, 29.48% Impervious, Inflow Depth = 2.23" for 10-yr Local event
 Inflow = 27.06 cfs @ 12.07 hrs, Volume= 2.968 af
 Outflow = 27.06 cfs @ 12.07 hrs, Volume= 2.968 af, Atten= 0%, Lag= 0.0 min
 Primary = 27.06 cfs @ 12.07 hrs, Volume= 2.968 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 1,977.93' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,976.00'	45.0" Round Culvert L= 765.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,976.00' / 1,899.00' S= 0.1007 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 11.04 sf

Primary OutFlow Max=26.24 cfs @ 12.07 hrs HW=1,977.90' (Free Discharge)

↑1=Culvert (Inlet Controls 26.24 cfs @ 4.69 fps)

Summary for Pond R8.12: CULVERT

Inflow Area = 5.442 ac, 8.40% Impervious, Inflow Depth = 1.69" for 10-yr Local event
 Inflow = 7.75 cfs @ 12.09 hrs, Volume= 0.766 af
 Outflow = 7.75 cfs @ 12.09 hrs, Volume= 0.766 af, Atten= 0%, Lag= 0.0 min
 Primary = 7.75 cfs @ 12.09 hrs, Volume= 0.766 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 1,903.21' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,902.00'	30.0" Round Culvert L= 40.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 1,902.00' / 1,899.00' S= 0.0750 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf

Primary OutFlow Max=7.62 cfs @ 12.09 hrs HW=1,903.20' (Free Discharge)

↑1=Culvert (Inlet Controls 7.62 cfs @ 3.29 fps)

Summary for Pond R8.13: CB

Inflow Area = 21.400 ac, 24.12% Impervious, Inflow Depth = 2.09" for 10-yr Local event
 Inflow = 34.75 cfs @ 12.07 hrs, Volume= 3.734 af
 Outflow = 34.75 cfs @ 12.07 hrs, Volume= 3.734 af, Atten= 0%, Lag= 0.0 min
 Primary = 34.75 cfs @ 12.07 hrs, Volume= 3.734 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 1,898.17' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,896.00'	48.0" Round Culvert L= 835.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,896.00' / 1,824.00' S= 0.0862 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 12.57 sf

Primary OutFlow Max=33.63 cfs @ 12.07 hrs HW=1,898.12' (Free Discharge)

↑1=Culvert (Inlet Controls 33.63 cfs @ 4.96 fps)

Summary for Pond R8.15: CB

Inflow Area = 24.114 ac, 25.39% Impervious, Inflow Depth = 2.12" for 10-yr Local event
 Inflow = 41.47 cfs @ 12.07 hrs, Volume= 4.268 af
 Outflow = 41.47 cfs @ 12.07 hrs, Volume= 4.268 af, Atten= 0%, Lag= 0.0 min
 Primary = 24.07 cfs @ 12.07 hrs, Volume= 2.447 af
 Secondary = 17.40 cfs @ 12.07 hrs, Volume= 1.821 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,822.76' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,821.00'	48.0" Round Culvert L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,821.00' / 1,818.00' S= 0.0300 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 12.57 sf
#2	Secondary	1,821.00'	36.0" Round Culvert L= 65.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,821.00' / 1,820.00' S= 0.0154 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=23.30 cfs @ 12.07 hrs HW=1,822.73' (Free Discharge)

↑1=Culvert (Inlet Controls 23.30 cfs @ 4.48 fps)

Secondary OutFlow Max=16.88 cfs @ 12.07 hrs HW=1,822.73' (Free Discharge)

↑2=Culvert (Barrel Controls 16.88 cfs @ 5.77 fps)

Summary for Pond R8.20: PIPE

Inflow Area = 24.114 ac, 25.39% Impervious, Inflow Depth = 1.22" for 10-yr Local event
 Inflow = 24.07 cfs @ 12.07 hrs, Volume= 2.447 af
 Outflow = 24.07 cfs @ 12.07 hrs, Volume= 2.447 af, Atten= 0%, Lag= 0.0 min
 Primary = 24.07 cfs @ 12.07 hrs, Volume= 2.447 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,817.41' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,815.00'	42.0" Round PIPE L= 220.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,815.00' / 1,814.00' S= 0.0045 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 9.62 sf

Primary OutFlow Max=23.30 cfs @ 12.07 hrs HW=1,817.37' (Free Discharge)

↑1=PIPE (Barrel Controls 23.30 cfs @ 4.75 fps)

Summary for Pond R8.22: New Culvert

Inflow Area = 51.032 ac, 13.71% Impervious, Inflow Depth = 1.82" for 10-yr Local event
 Inflow = 22.18 cfs @ 12.56 hrs, Volume= 7.728 af
 Outflow = 22.18 cfs @ 12.56 hrs, Volume= 7.728 af, Atten= 0%, Lag= 0.0 min
 Primary = 22.18 cfs @ 12.56 hrs, Volume= 7.728 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,664.66' @ 12.56 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,663.00'	24.0" Round Culvert X 2.00 L= 50.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,663.00' / 1,662.50' S= 0.0100 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Primary	1,670.00'	20.0' long x 30.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=22.14 cfs @ 12.56 hrs HW=1,664.66' (Free Discharge)

- 1=Culvert (Barrel Controls 22.14 cfs @ 5.39 fps)
- 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond R8.3: CULVERT

Inflow Area = 6.715 ac, 30.90% Impervious, Inflow Depth = 2.21" for 10-yr Local event
 Inflow = 12.41 cfs @ 12.10 hrs, Volume= 1.236 af
 Outflow = 12.41 cfs @ 12.10 hrs, Volume= 1.236 af, Atten= 0%, Lag= 0.0 min
 Primary = 12.41 cfs @ 12.10 hrs, Volume= 1.236 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,273.46' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,272.00'	36.0" Round Culvert L= 50.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,272.00' / 2,271.00' S= 0.0200 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Primary	2,274.00'	10.0' long x 30.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=12.35 cfs @ 12.10 hrs HW=2,273.46' (Free Discharge)

- 1=Culvert (Inlet Controls 12.35 cfs @ 3.63 fps)
- 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond R8.5: CULVERT

Inflow Area = 8.502 ac, 27.24% Impervious, Inflow Depth = 2.14" for 10-yr Local event
 Inflow = 13.86 cfs @ 12.14 hrs, Volume= 1.517 af
 Outflow = 13.86 cfs @ 12.14 hrs, Volume= 1.517 af, Atten= 0%, Lag= 0.0 min
 Primary = 13.86 cfs @ 12.14 hrs, Volume= 1.517 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,223.56' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,222.00'	36.0" Round Culvert L= 50.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,222.00' / 2,220.00' S= 0.0400 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Primary	2,224.00'	10.0' long x 30.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=13.72 cfs @ 12.14 hrs HW=2,223.55' (Free Discharge)

- 1=Culvert (Inlet Controls 13.72 cfs @ 3.74 fps)
- 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond R8.7: CULVERT

Inflow Area = 14.012 ac, 24.04% Impervious, Inflow Depth = 2.10" for 10-yr Local event
 Inflow = 20.56 cfs @ 12.10 hrs, Volume= 2.452 af
 Outflow = 20.56 cfs @ 12.10 hrs, Volume= 2.452 af, Atten= 0%, Lag= 0.0 min
 Primary = 20.56 cfs @ 12.10 hrs, Volume= 2.452 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,179.82' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,178.00'	42.0" Round Culvert L= 200.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,178.00' / 2,163.00' S= 0.0750 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 9.62 sf

Primary OutFlow Max=20.49 cfs @ 12.10 hrs HW=2,179.82' (Free Discharge)

- 1=Culvert (Inlet Controls 20.49 cfs @ 4.05 fps)

Summary for Pond R8.8: CB

Inflow Area = 14.734 ac, 26.41% Impervious, Inflow Depth = 2.16" for 10-yr Local event
 Inflow = 22.56 cfs @ 12.08 hrs, Volume= 2.647 af
 Outflow = 22.56 cfs @ 12.08 hrs, Volume= 2.647 af, Atten= 0%, Lag= 0.0 min
 Primary = 22.56 cfs @ 12.08 hrs, Volume= 2.647 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,161.79' @ 12.08 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,160.00'	42.0" Round Culvert L= 880.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,160.00' / 2,077.00' S= 0.0943 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 9.62 sf

Primary OutFlow Max=22.40 cfs @ 12.08 hrs HW=2,161.78' (Free Discharge)
 ↳1=Culvert (Inlet Controls 22.40 cfs @ 4.55 fps)

Summary for Pond R8.9: CB

Inflow Area = 15.354 ac, 28.00% Impervious, Inflow Depth = 2.20" for 10-yr Local event
 Inflow = 25.04 cfs @ 12.07 hrs, Volume= 2.810 af
 Outflow = 25.04 cfs @ 12.07 hrs, Volume= 2.810 af, Atten= 0%, Lag= 0.0 min
 Primary = 25.04 cfs @ 12.07 hrs, Volume= 2.810 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,075.90' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,074.00'	42.0" Round Culvert L= 900.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,074.00' / 1,979.00' S= 0.1056 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 9.62 sf

Primary OutFlow Max=24.28 cfs @ 12.07 hrs HW=2,075.87' (Free Discharge)
 ↳1=Culvert (Inlet Controls 24.28 cfs @ 4.65 fps)

Summary for Pond R9.1: pipes

Inflow Area = 3.982 ac, 24.44% Impervious, Inflow Depth = 2.16" for 10-yr Local event
 Inflow = 5.71 cfs @ 12.09 hrs, Volume= 0.717 af
 Outflow = 5.71 cfs @ 12.09 hrs, Volume= 0.717 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.71 cfs @ 12.09 hrs, Volume= 0.717 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,817.02' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,816.00'	30.0" Round Culvert L= 560.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 1,816.00' / 1,770.00' S= 0.0821 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf
#2	Primary	1,820.00'	40.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=5.67 cfs @ 12.09 hrs HW=1,817.02' (Free Discharge)
 ↳1=Culvert (Inlet Controls 5.67 cfs @ 3.03 fps)
 ↳2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond R9.11: Culvert

Inflow Area = 26.104 ac, 16.32% Impervious, Inflow Depth = 1.92" for 10-yr Local event
 Inflow = 16.52 cfs @ 12.15 hrs, Volume= 4.181 af
 Outflow = 16.52 cfs @ 12.15 hrs, Volume= 4.181 af, Atten= 0%, Lag= 0.0 min
 Primary = 16.52 cfs @ 12.15 hrs, Volume= 4.181 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,659.60' @ 12.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,658.00'	36.0" Round Culvert L= 50.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,658.00' / 1,656.00' S= 0.0400 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=16.49 cfs @ 12.15 hrs HW=1,659.60' (Free Discharge)
 ↑1=Culvert (Inlet Controls 16.49 cfs @ 4.30 fps)

Summary for Pond R9.2A: Culvert

Inflow Area = 13.150 ac, 7.18% Impervious, Inflow Depth = 1.67" for 10-yr Local event
 Inflow = 17.14 cfs @ 12.06 hrs, Volume= 1.830 af
 Outflow = 17.14 cfs @ 12.06 hrs, Volume= 1.830 af, Atten= 0%, Lag= 0.0 min
 Primary = 17.14 cfs @ 12.06 hrs, Volume= 1.830 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,773.46' @ 12.06 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,772.00'	48.0" Round Culvert L= 40.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,772.00' / 1,770.00' S= 0.0500 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 12.57 sf

Primary OutFlow Max=16.72 cfs @ 12.06 hrs HW=1,773.44' (Free Discharge)
 ↑1=Culvert (Inlet Controls 16.72 cfs @ 4.09 fps)

Summary for Pond R9.5: Culvert

Inflow Area = 4.347 ac, 22.35% Impervious, Inflow Depth = 2.13" for 10-yr Local event
 Inflow = 8.07 cfs @ 12.05 hrs, Volume= 0.771 af
 Outflow = 8.07 cfs @ 12.05 hrs, Volume= 0.771 af, Atten= 0%, Lag= 0.0 min
 Primary = 8.07 cfs @ 12.05 hrs, Volume= 0.771 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,714.95' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,714.00'	54.0" Round Culvert L= 60.0' CPP, end-section conforming to fill, Ke= 0.500

Inlet / Outlet Invert= 1,714.00' / 1,710.00' S= 0.0667 '/ n= 0.020 Corrugated PE, corrugated interior, Flow Area= 15.90 sf

Primary OutFlow Max=7.94 cfs @ 12.05 hrs HW=1,714.94' (Free Discharge)

↑1=Culvert (Inlet Controls 7.94 cfs @ 3.30 fps)

Summary for Pond R9.6: Culvert

Inflow Area = 1.291 ac, 18.31% Impervious, Inflow Depth = 1.73" for 10-yr Local event
 Inflow = 1.83 cfs @ 12.08 hrs, Volume= 0.187 af
 Outflow = 1.83 cfs @ 12.08 hrs, Volume= 0.187 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.83 cfs @ 12.08 hrs, Volume= 0.187 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,684.62' @ 12.08 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,684.00'	18.0" Round Culvert L= 100.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,684.00' / 1,682.00' S= 0.0200 '/ n= 0.020 Corrugated PE, corrugated interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.79 cfs @ 12.08 hrs HW=1,684.61' (Free Discharge)

↑1=Culvert (Inlet Controls 1.79 cfs @ 2.66 fps)

Summary for Link 1.1L: Sub 1.1 Res

Inflow Area = 0.275 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.09 cfs @ 13.00 hrs, Volume= 0.092 af
 Primary = 0.09 cfs @ 13.00 hrs, Volume= 0.092 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 1.2L: Sub 1.2 Res

Inflow Area = 0.264 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.08 cfs @ 13.18 hrs, Volume= 0.088 af
 Primary = 0.08 cfs @ 13.18 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 1.3L: Sub 1.3 Res

Inflow Area = 0.149 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af
Primary = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 1.4L: Sub 1.4 Res

Inflow Area = 0.161 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.05 cfs @ 13.15 hrs, Volume= 0.054 af
Primary = 0.05 cfs @ 13.15 hrs, Volume= 0.054 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 1.5L: Sub 1.5 Res

Inflow Area = 0.494 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.15 cfs @ 13.10 hrs, Volume= 0.165 af
Primary = 0.15 cfs @ 13.10 hrs, Volume= 0.165 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 1.6L: Sub 1.6 Res

Inflow Area = 0.379 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.13 cfs @ 12.89 hrs, Volume= 0.126 af
Primary = 0.13 cfs @ 12.89 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 1.9L: Sub 1.9 Res

Inflow Area = 0.528 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.30 cfs @ 12.59 hrs, Volume= 0.176 af
Primary = 0.30 cfs @ 12.59 hrs, Volume= 0.176 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 2.10L: Sub 2.10 Res

Inflow Area = 0.562 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.23 cfs @ 12.59 hrs, Volume= 0.188 af
Primary = 0.23 cfs @ 12.59 hrs, Volume= 0.188 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 2.1L: Sub 2.1 Res

Inflow Area = 0.115 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.05 cfs @ 12.73 hrs, Volume= 0.038 af
Primary = 0.05 cfs @ 12.73 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 2.3L: Sub 2.3 Res

Inflow Area = 0.241 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.07 cfs @ 13.15 hrs, Volume= 0.080 af
Primary = 0.07 cfs @ 13.15 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 2.6L: Sub 2.6 Res

Inflow Area = 0.402 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.12 cfs @ 13.15 hrs, Volume= 0.134 af
Primary = 0.12 cfs @ 13.15 hrs, Volume= 0.134 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 2.7L: Sub 2.7 Res

Inflow Area = 0.402 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.12 cfs @ 13.15 hrs, Volume= 0.134 af
Primary = 0.12 cfs @ 13.15 hrs, Volume= 0.134 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 2.8L: Sub 2.8 Res

Inflow Area = 0.092 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af
Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 2.9L: Sub 2.9 Res

Inflow Area = 0.643 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.19 cfs @ 13.15 hrs, Volume= 0.215 af
Primary = 0.19 cfs @ 13.15 hrs, Volume= 0.215 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 4.1L: Sub 4.1 Res

Inflow Area = 0.585 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.18 cfs @ 13.06 hrs, Volume= 0.195 af
Primary = 0.18 cfs @ 13.06 hrs, Volume= 0.195 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 4.3L: Sub 4.3 Res

Inflow Area = 1.377 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.41 cfs @ 13.13 hrs, Volume= 0.460 af
Primary = 0.41 cfs @ 13.13 hrs, Volume= 0.460 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 4.4L: Sub 4.4 Res

Inflow Area = 0.253 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.08 cfs @ 13.05 hrs, Volume= 0.084 af
Primary = 0.08 cfs @ 13.05 hrs, Volume= 0.084 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 5.2L: Sub 5.2 Res

Inflow Area = 0.333 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.10 cfs @ 13.07 hrs, Volume= 0.111 af
Primary = 0.10 cfs @ 13.07 hrs, Volume= 0.111 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 8.10L: Sub 8.10 Res

Inflow Area = 0.643 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.19 cfs @ 13.15 hrs, Volume= 0.215 af
Primary = 0.19 cfs @ 13.15 hrs, Volume= 0.215 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 8.11L: Sub 8.11 Res

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af
Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 8.15L: Sub 8.15 Res

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af
Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 8.1L: Sub 8.1 Res

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af
Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 8.4L: Sub 8.4 Res

Inflow Area = 0.287 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.10 cfs @ 12.90 hrs, Volume= 0.096 af
Primary = 0.10 cfs @ 12.90 hrs, Volume= 0.096 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 8.5L: Sub 8.5 Res

Inflow Area = 0.298 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.11 cfs @ 12.85 hrs, Volume= 0.100 af
Primary = 0.11 cfs @ 12.85 hrs, Volume= 0.100 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 8.8L: Sub 8.8 Res

Inflow Area = 0.241 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.07 cfs @ 13.15 hrs, Volume= 0.080 af
Primary = 0.07 cfs @ 13.15 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 9.10L: Sub 9.10 Res

Inflow Area = 0.321 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.09 cfs @ 13.15 hrs, Volume= 0.107 af
Primary = 0.09 cfs @ 13.15 hrs, Volume= 0.107 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 9.11L: Sub 9.11 Res

Inflow Area = 0.402 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.12 cfs @ 13.15 hrs, Volume= 0.134 af
Primary = 0.12 cfs @ 13.15 hrs, Volume= 0.134 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 9.1L: Sub 9.1 Res

Inflow Area = 0.241 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.07 cfs @ 13.15 hrs, Volume= 0.080 af
Primary = 0.07 cfs @ 13.15 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 9.5L: Sub 8.5 Res

Inflow Area = 0.092 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af
Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 9.6L: Sub 9.6 Res

Inflow Area = 0.562 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.16 cfs @ 13.15 hrs, Volume= 0.188 af
Primary = 0.16 cfs @ 13.15 hrs, Volume= 0.188 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 11.14L: Sub 11.14 Res

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af
Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 11.18L: Sub 11.18 Res

Inflow Area = 0.103 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.03 cfs @ 13.23 hrs, Volume= 0.034 af
Primary = 0.03 cfs @ 13.23 hrs, Volume= 0.034 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 11.25L: Sub 11.25 Res

Inflow Area = 0.161 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.05 cfs @ 13.15 hrs, Volume= 0.054 af
Primary = 0.05 cfs @ 13.15 hrs, Volume= 0.054 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 11.33L: Sub 11.33 Res

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af
Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 11.3L: Sub 11.3 Res

Inflow Area = 0.436 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.13 cfs @ 13.06 hrs, Volume= 0.146 af
Primary = 0.13 cfs @ 13.06 hrs, Volume= 0.146 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 12.2L: Sub 12.2 Res

Inflow Area = 0.379 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.13 cfs @ 12.91 hrs, Volume= 0.126 af
Primary = 0.13 cfs @ 12.91 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

10-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1.10S: Area 1.10	Runoff Area=10,640 sf 81.20% Impervious Runoff Depth=6.78" Tc=6.0 min CN=93 Runoff=1.56 cfs 0.138 af
Subcatchment 1.11S: Area 1.11	Runoff Area=13,460 sf 89.60% Impervious Runoff Depth=7.13" Flow Length=230' Tc=8.0 min CN=96 Runoff=1.88 cfs 0.184 af
Subcatchment 1.12S: Area 1.12	Runoff Area=35,190 sf 60.29% Impervious Runoff Depth=6.19" Flow Length=641' Tc=10.7 min CN=88 Runoff=4.10 cfs 0.417 af
Subcatchment 1.13S: Area 1.13	Runoff Area=53,050 sf 0.00% Impervious Runoff Depth=4.58" Flow Length=50' Slope=0.2500 1' Tc=6.0 min CN=74 Runoff=5.70 cfs 0.465 af
Subcatchment 1.14S: Area 1.14	Runoff Area=11,800 sf 0.00% Impervious Runoff Depth=4.24" Tc=6.0 min CN=71 Runoff=1.18 cfs 0.096 af
Subcatchment 1.15S: Area 1.15	Runoff Area=23,830 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=3.60 cfs 0.336 af
Subcatchment 1.16S: Area 1.16	Runoff Area=15,985 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=2.41 cfs 0.225 af
Subcatchment 1.17S: Area 1.17	Runoff Area=30,241 sf 0.00% Impervious Runoff Depth=4.69" Flow Length=465' Tc=6.0 min CN=75 Runoff=3.33 cfs 0.271 af
Subcatchment 1.1S: Area-1.1	Runoff Area=1,542,650 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=2,295' Tc=16.9 min CN=70 Runoff=103.84 cfs 12.192 af
Subcatchment 1.2S: Area 1.2	Runoff Area=436,779 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=1,510' Tc=12.8 min CN=70 Runoff=32.76 cfs 3.452 af
Subcatchment 1.3S: Area-1.3	Runoff Area=124,373 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=750' Tc=15.5 min CN=70 Runoff=8.68 cfs 0.983 af
Subcatchment 1.4S: Area 1.4	Runoff Area=345,904 sf 0.00% Impervious Runoff Depth=4.35" Flow Length=1,361' Tc=10.9 min CN=72 Runoff=29.32 cfs 2.881 af
Subcatchment 1.5S: Area 1.5	Runoff Area=750,276 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=1,965' Tc=18.0 min CN=70 Runoff=49.17 cfs 5.929 af
Subcatchment 1.6S: Area 1.6	Runoff Area=128,870 sf 1.08% Impervious Runoff Depth=4.47" Flow Length=465' Tc=6.0 min CN=73 Runoff=13.52 cfs 1.101 af
Subcatchment 1.7S: Area 1.7	Runoff Area=39,615 sf 92.98% Impervious Runoff Depth=7.13" Flow Length=1,245' Tc=6.0 min CN=96 Runoff=5.93 cfs 0.540 af
Subcatchment 1.8S: Area 1.8	Runoff Area=54,200 sf 0.00% Impervious Runoff Depth=4.58" Flow Length=140' Tc=6.0 min CN=74 Runoff=5.83 cfs 0.475 af

Subcatchment 1.9S: Area 1.9	Runoff Area=159,810 sf 18.28% Impervious Runoff Depth=4.69" Flow Length=730' Tc=6.0 min CN=75 Runoff=17.59 cfs 1.434 af
Subcatchment 2.10S: Area 2.10	Runoff Area=302,226 sf 1.05% Impervious Runoff Depth=4.35" Flow Length=965' Tc=13.8 min CN=72 Runoff=23.36 cfs 2.517 af
Subcatchment 2.1S: Area 2.1	Runoff Area=262,081 sf 0.00% Impervious Runoff Depth=4.02" Flow Length=1,585' Tc=15.2 min CN=69 Runoff=17.93 cfs 2.016 af
Subcatchment 2.2S: Area 2.2	Runoff Area=63,870 sf 100.00% Impervious Runoff Depth=7.37" Flow Length=1,910' Tc=6.0 min CN=98 Runoff=9.64 cfs 0.901 af
Subcatchment 2.3S: Area 2.3	Runoff Area=91,990 sf 0.00% Impervious Runoff Depth=4.47" Flow Length=208' Tc=6.0 min CN=73 Runoff=9.65 cfs 0.786 af
Subcatchment 2.4S: Area 2.4	Runoff Area=15,150 sf 100.00% Impervious Runoff Depth=7.37" Flow Length=885' Slope=0.0200 1/1' Tc=6.0 min CN=98 Runoff=2.29 cfs 0.214 af
Subcatchment 2.5S: Area 2.5	Runoff Area=8,000 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=1.21 cfs 0.113 af
Subcatchment 2.6S: Area 2.6	Runoff Area=229,805 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=862' Tc=9.9 min CN=71 Runoff=19.55 cfs 1.865 af
Subcatchment 2.7S: Area 2.7	Runoff Area=108,393 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=715' Tc=6.0 min CN=71 Runoff=10.80 cfs 0.880 af
Subcatchment 2.8S: Area 2.8	Runoff Area=28,100 sf 0.00% Impervious Runoff Depth=4.02" Flow Length=365' Tc=6.0 min CN=69 Runoff=2.65 cfs 0.216 af
Subcatchment 2.9S: Area 2.9	Runoff Area=138,145 sf 0.00% Impervious Runoff Depth=4.35" Flow Length=680' Tc=9.4 min CN=72 Runoff=12.21 cfs 1.151 af
Subcatchment 2aS: Area 2A	Runoff Area=55,140 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=185' Tc=7.7 min CN=71 Runoff=5.15 cfs 0.448 af
Subcatchment 2bS: Area 2b	Runoff Area=204,120 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=160' Tc=8.4 min CN=71 Runoff=18.47 cfs 1.657 af
Subcatchment 3.1S: Area 3.1	Runoff Area=105,215 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=595' Tc=6.0 min CN=70 Runoff=10.20 cfs 0.832 af
Subcatchment 4.1S: Area 4.1	Runoff Area=621,690 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=1,390' Tc=12.6 min CN=70 Runoff=46.97 cfs 4.913 af
Subcatchment 4.2S: Area 4.2	Runoff Area=32,235 sf 100.00% Impervious Runoff Depth=7.37" Flow Length=40' Slope=0.0200 1/1' Tc=6.0 min CN=98 Runoff=4.86 cfs 0.455 af
Subcatchment 4.3S: Area 4.3	Runoff Area=292,890 sf 8.33% Impervious Runoff Depth=4.58" Flow Length=1,060' Tc=6.6 min CN=74 Runoff=30.87 cfs 2.565 af

Subcatchment 4.4S: Area 4.4	Runoff Area=72,240 sf 10.38% Impervious Runoff Depth=4.47" Flow Length=380' Tc=6.1 min CN=73 Runoff=7.54 cfs 0.617 af
Subcatchment 4.5S: Area 4.5	Runoff Area=46,440 sf 0.00% Impervious Runoff Depth=4.58" Flow Length=30' Slope=0.1250 1/' Tc=6.0 min CN=74 Runoff=4.99 cfs 0.407 af
Subcatchment 4.6S: Area-4.6	Runoff Area=155,010 sf 0.00% Impervious Runoff Depth=4.35" Flow Length=900' Slope=0.1000 1/' Tc=6.0 min CN=72 Runoff=15.85 cfs 1.291 af
Subcatchment 4.7S: Area-4.7	Runoff Area=110,150 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=320' Tc=6.8 min CN=71 Runoff=10.69 cfs 0.894 af
Subcatchment 4.8: Area-4.8	Runoff Area=1,585 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=100' Slope=0.2200 1/' Tc=12.0 min CN=70 Runoff=0.12 cfs 0.013 af
Subcatchment 5.1S: Area-5.1	Runoff Area=553,165 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=2,200' Tc=10.9 min CN=71 Runoff=45.66 cfs 4.489 af
Subcatchment 5.2S: Area-5.2	Runoff Area=147,335 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=695' Tc=9.9 min CN=71 Runoff=12.53 cfs 1.196 af
Subcatchment 5.3S: Area 5.3	Runoff Area=382,265 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=1,528' Tc=7.6 min CN=70 Runoff=34.86 cfs 3.021 af
Subcatchment 6.1S: Area 6.1	Runoff Area=8,000 sf 81.25% Impervious Runoff Depth=6.89" Tc=6.0 min CN=94 Runoff=1.18 cfs 0.106 af
Subcatchment 6.2S: Area 6.2	Runoff Area=8,000 sf 81.25% Impervious Runoff Depth=6.89" Tc=6.0 min CN=94 Runoff=1.18 cfs 0.106 af
Subcatchment 6.3S: Area 6.3	Runoff Area=8,000 sf 81.25% Impervious Runoff Depth=6.89" Tc=6.0 min CN=94 Runoff=1.18 cfs 0.106 af
Subcatchment 6.4S: AREA 6.1	Runoff Area=66,488 sf 0.00% Impervious Runoff Depth=3.58" Flow Length=380' Tc=6.0 min CN=65 Runoff=5.54 cfs 0.456 af
Subcatchment 7.1S: Area-7	Runoff Area=105,675 sf 0.00% Impervious Runoff Depth=3.58" Flow Length=150' Tc=6.0 min CN=65 Runoff=8.80 cfs 0.724 af
Subcatchment 8.10S: Area 8.10	Runoff Area=212,018 sf 8.40% Impervious Runoff Depth=4.58" Flow Length=762' Tc=6.5 min CN=74 Runoff=22.43 cfs 1.857 af
Subcatchment 8.11S: Area-8.11	Runoff Area=121,400 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=585' Tc=6.0 min CN=70 Runoff=11.77 cfs 0.959 af
Subcatchment 8.12S: Area 8.12	Runoff Area=27,016 sf 65.89% Impervious Runoff Depth=6.42" Flow Length=865' Tc=6.0 min CN=90 Runoff=3.85 cfs 0.332 af
Subcatchment 8.13S: Area 8.13	Runoff Area=26,292 sf 66.94% Impervious Runoff Depth=6.42" Flow Length=795' Tc=6.0 min CN=90 Runoff=3.75 cfs 0.323 af

Subcatchment 8.15S: Area 8.15	Runoff Area=94,118 sf 34.15% Impervious Runoff Depth=5.38" Flow Length=1,597' Tc=6.0 min CN=81 Runoff=11.73 cfs 0.968 af
Subcatchment 8.16S: Area 8.16	Runoff Area=20,576 sf 30.13% Impervious Runoff Depth=5.26" Tc=6.0 min CN=80 Runoff=2.52 cfs 0.207 af
Subcatchment 8.17S: Area 8.17	Runoff Area=102,463 sf 39.21% Impervious Runoff Depth=5.38" Flow Length=1,330' Tc=6.0 min CN=81 Runoff=12.77 cfs 1.054 af
Subcatchment 8.1S: Area-8.1	Runoff Area=225,775 sf 0.00% Impervious Runoff Depth=3.91" Flow Length=1,117' Tc=9.1 min CN=68 Runoff=17.98 cfs 1.689 af
Subcatchment 8.2S: Area 8.2	Runoff Area=100,400 sf 9.56% Impervious Runoff Depth=4.35" Flow Length=450' Slope=0.3000 '/' Tc=8.7 min CN=72 Runoff=9.19 cfs 0.836 af
Subcatchment 8.3S: Area 8.3	Runoff Area=49,890 sf 16.92% Impervious Runoff Depth=4.92" Flow Length=415' Slope=0.0300 '/' Tc=6.0 min CN=77 Runoff=5.74 cfs 0.469 af
Subcatchment 8.4S: Area 8.4	Runoff Area=224,571 sf 3.30% Impervious Runoff Depth=4.24" Flow Length=890' Tc=9.1 min CN=71 Runoff=19.47 cfs 1.823 af
Subcatchment 8.5S: Area-8.5	Runoff Area=655,085 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=1,768' Tc=31.2 min CN=70 Runoff=33.38 cfs 5.177 af
Subcatchment 8.6S: Area 8.6	Runoff Area=118,266 sf 28.55% Impervious Runoff Depth=5.15" Flow Length=737' Tc=11.3 min CN=79 Runoff=11.68 cfs 1.164 af
Subcatchment 8.7S: Area 8.7	Runoff Area=174,248 sf 32.50% Impervious Runoff Depth=5.26" Flow Length=910' Tc=8.5 min CN=80 Runoff=19.36 cfs 1.754 af
Subcatchment 8.8S: Area 8.8	Runoff Area=67,318 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=524' Slope=0.0850 '/' Tc=6.0 min CN=71 Runoff=6.71 cfs 0.546 af
Subcatchment 8.9S: Area 8.9	Runoff Area=31,465 sf 72.46% Impervious Runoff Depth=6.54" Flow Length=1,125' Tc=6.0 min CN=91 Runoff=4.53 cfs 0.394 af
Subcatchment 9.10S: Area 9.10	Runoff Area=317,221 sf 8.54% Impervious Runoff Depth=4.47" Flow Length=1,240' Slope=0.1000 '/' Tc=6.0 min UI Adjusted CN=73 Runoff=33.27 cfs 2.710 af
Subcatchment 9.11S: Area 9.11S	Runoff Area=126,900 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=975' Tc=12.6 min CN=71 Runoff=9.85 cfs 1.030 af
Subcatchment 9.12S: Area 9.12S	Runoff Area=29,060 sf 85.68% Impervious Runoff Depth=7.01" Flow Length=925' Tc=6.0 min CN=95 Runoff=4.33 cfs 0.390 af
Subcatchment 9.13S: Area 9.13	Runoff Area=49,485 sf 100.00% Impervious Runoff Depth=7.37" Flow Length=1,695' Tc=6.0 min CN=98 Runoff=7.47 cfs 0.698 af
Subcatchment 9.14S: Area 9.14	Runoff Area=241,600 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=890' Tc=8.3 min CN=70 Runoff=21.35 cfs 1.909 af

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Prepared by The LA group

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Page 326

Subcatchment 9.1S: Area 9.1	Runoff Area=153,790 sf 2.99% Impervious Runoff Depth=3.91" Flow Length=760' Tc=7.3 min CN=68 Runoff=13.42 cfs 1.150 af
Subcatchment 9.5S: Area 9.5	Runoff Area=52,243 sf 12.06% Impervious Runoff Depth=4.24" Flow Length=412' Slope=0.2000 '/' Tc=8.7 min CN=71 Runoff=4.65 cfs 0.424 af
Subcatchment 9.6S: Area 9.6	Runoff Area=164,855 sf 10.81% Impervious Runoff Depth=4.69" Flow Length=543' Slope=0.1000 '/' Tc=6.0 min CN=75 Runoff=18.14 cfs 1.480 af
Subcatchment 9.9S: Area 9.9	Runoff Area=95,744 sf 0.00% Impervious Runoff Depth=4.35" Flow Length=300' Tc=6.0 min CN=72 Runoff=9.79 cfs 0.797 af
Subcatchment 11.10S: Area-11.10	Runoff Area=26,000 sf 65.96% Impervious Runoff Depth=6.42" Flow Length=220' Tc=6.0 min CN=90 Runoff=3.70 cfs 0.319 af
Subcatchment 11.11S: Area-11.11	Runoff Area=59,520 sf 60.26% Impervious Runoff Depth=6.19" Flow Length=497' Tc=6.0 min CN=88 Runoff=8.28 cfs 0.705 af
Subcatchment 11.12S: Area-11.12	Runoff Area=54,672 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=284' Tc=6.0 min CN=70 Runoff=5.30 cfs 0.432 af
Subcatchment 11.13S: Area-11.13	Runoff Area=10,160 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=1.53 cfs 0.143 af
Subcatchment 11.14S: Area-11.14	Runoff Area=195,163 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=520' Tc=11.6 min CN=71 Runoff=15.74 cfs 1.584 af
Subcatchment 11.15S: Area-11.15	Runoff Area=45,543 sf 0.00% Impervious Runoff Depth=4.58" Flow Length=836' Tc=13.5 min CN=74 Runoff=3.73 cfs 0.399 af
Subcatchment 11.16S: Area-11.16	Runoff Area=28,535 sf 58.70% Impervious Runoff Depth=6.19" Flow Length=690' Tc=6.0 min CN=88 Runoff=3.97 cfs 0.338 af
Subcatchment 11.17S: Area-11.17	Runoff Area=15,901 sf 78.17% Impervious Runoff Depth=6.78" Flow Length=520' Slope=0.0250 '/' Tc=6.0 min CN=93 Runoff=2.33 cfs 0.206 af
Subcatchment 11.18S: Area-11.18	Runoff Area=496,244 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=1,750' Tc=18.5 min CN=70 Runoff=32.15 cfs 3.922 af
Subcatchment 11.19S: Area-11.19	Runoff Area=365,755 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=2,586' Tc=21.6 min CN=70 Runoff=22.20 cfs 2.891 af
Subcatchment 11.20S: Area-11.20	Runoff Area=28,250 sf 0.00% Impervious Runoff Depth=4.02" Flow Length=497' Tc=6.0 min CN=69 Runoff=2.66 cfs 0.217 af
Subcatchment 11.21S: Area-11.21	Runoff Area=207,244 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=1,251' Tc=8.6 min CN=70 Runoff=18.08 cfs 1.638 af
Subcatchment 11.23S: Area 11.23	Runoff Area=49,500 sf 14.06% Impervious Runoff Depth=4.69" Flow Length=490' Tc=6.0 min CN=75 Runoff=5.45 cfs 0.444 af

Subcatchment 11.24S: Area 11.24	Runoff Area=25,034 sf 22.45% Impervious Runoff Depth=5.15" Flow Length=475' Tc=6.0 min CN=79 Runoff=3.00 cfs 0.246 af
Subcatchment 11.25S: Area 11.25	Runoff Area=68,850 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=455' Tc=8.6 min CN=71 Runoff=6.18 cfs 0.559 af
Subcatchment 11.26S: Area-11.26	Runoff Area=38,546 sf 67.49% Impervious Runoff Depth=6.42" Flow Length=490' Tc=6.0 min CN=90 Runoff=5.49 cfs 0.474 af
Subcatchment 11.27S: Area-11.27	Runoff Area=66,220 sf 70.97% Impervious Runoff Depth=6.54" Tc=6.0 min CN=91 Runoff=9.54 cfs 0.828 af
Subcatchment 11.28S: Area-11.28	Runoff Area=6,000 sf 100.00% Impervious Runoff Depth=7.37" Flow Length=20' Slope=0.0200 '/' Tc=6.0 min CN=98 Runoff=0.91 cfs 0.085 af
Subcatchment 11.29S: Area 11.29	Runoff Area=21,107 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=195' Tc=6.0 min CN=71 Runoff=2.10 cfs 0.171 af
Subcatchment 11.2S: Area-11.2	Runoff Area=1,298,764 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=2,720' Tc=29.6 min CN=70 Runoff=68.17 cfs 10.264 af
Subcatchment 11.32S: Area-11.5	Runoff Area=236,106 sf 0.00% Impervious Runoff Depth=4.02" Flow Length=1,303' Tc=20.6 min CN=69 Runoff=14.20 cfs 1.816 af
Subcatchment 11.33S: Area-11.33	Runoff Area=115,090 sf 0.00% Impervious Runoff Depth=4.35" Flow Length=670' Tc=23.1 min CN=72 Runoff=7.14 cfs 0.959 af
Subcatchment 11.34S: Area-11.34	Runoff Area=56,117 sf 0.00% Impervious Runoff Depth=4.35" Flow Length=575' Tc=14.1 min CN=72 Runoff=4.31 cfs 0.467 af
Subcatchment 11.35S: Area-11.35	Runoff Area=23,266 sf 0.00% Impervious Runoff Depth=4.80" Flow Length=370' Slope=0.1500 '/' Tc=6.0 min CN=76 Runoff=2.62 cfs 0.214 af
Subcatchment 11.36S: Area-11.36	Runoff Area=69,230 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=590' Tc=7.8 min CN=71 Runoff=6.43 cfs 0.562 af
Subcatchment 11.38S: Area-11.38	Runoff Area=14,250 sf 0.00% Impervious Runoff Depth=4.69" Flow Length=185' Slope=0.2500 '/' Tc=6.0 min CN=75 Runoff=1.57 cfs 0.128 af
Subcatchment 11.39S: Area-11.39	Runoff Area=21,350 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=435' Tc=6.5 min CN=71 Runoff=2.09 cfs 0.173 af
Subcatchment 11.3S: Area-11.3	Runoff Area=2,817,597 sf 9.13% Impervious Runoff Depth=4.47" Flow Length=5,405' Tc=29.0 min CN=73 Runoff=161.15 cfs 24.073 af
Subcatchment 11.40S: Area-11.40	Runoff Area=43,800 sf 100.00% Impervious Runoff Depth=7.37" Flow Length=2,190' Tc=6.0 min CN=98 Runoff=6.61 cfs 0.618 af
Subcatchment 11.41S: Area-11.41	Runoff Area=77,380 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=355' Tc=7.3 min CN=71 Runoff=7.35 cfs 0.628 af

Subcatchment 11.4S: Area-11.4	Runoff Area=39,350 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=5.94 cfs 0.555 af
Subcatchment 11.5S: Area-11.5	Runoff Area=243,794 sf 0.00% Impervious Runoff Depth=4.02" Flow Length=950' Tc=9.4 min CN=69 Runoff=19.84 cfs 1.875 af
Subcatchment 11.6S: Area-11.6	Runoff Area=24,550 sf 0.00% Impervious Runoff Depth=4.24" Tc=6.0 min CN=71 Runoff=2.45 cfs 0.199 af
Subcatchment 11.7S: Area-11.7	Runoff Area=66,763 sf 0.00% Impervious Runoff Depth=4.35" Flow Length=810' Tc=6.0 min CN=72 Runoff=6.83 cfs 0.556 af
Subcatchment 11.8S: Area-11.8	Runoff Area=238,239 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=1,367' Tc=13.9 min CN=71 Runoff=17.85 cfs 1.934 af
Subcatchment 11.9S: Area-11.9	Runoff Area=87,870 sf 0.00% Impervious Runoff Depth=4.35" Flow Length=805' Tc=8.2 min CN=72 Runoff=8.24 cfs 0.732 af
Subcatchment 12.1S: Area-12.1	Runoff Area=555,875 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=1,995' Tc=37.6 min CN=70 Runoff=25.94 cfs 4.393 af
Subcatchment 12.2S: Area-12.2	Runoff Area=249,685 sf 14.15% Impervious Runoff Depth=4.80" Flow Length=480' Tc=9.5 min CN=76 Runoff=24.24 cfs 2.295 af
Subcatchment 12.3S: Area-12.3	Runoff Area=18,250 sf 100.00% Impervious Runoff Depth=7.37" Flow Length=380' Tc=6.0 min CN=98 Runoff=2.75 cfs 0.257 af
Reach 11.10R: Mountain stream	Avg. Flow Depth=0.72' Max Vel=11.98 fps Inflow=216.40 cfs 37.612 af n=0.040 L=393.0' S=0.1730 1/' Capacity=3,320.07 cfs Outflow=216.03 cfs 37.612 af
Reach 11.3aR: Bouldery stream	Avg. Flow Depth=0.46' Max Vel=10.87 fps Inflow=75.95 cfs 12.179 af n=0.050 L=142.0' S=0.4014 1/' Capacity=2,234.38 cfs Outflow=75.83 cfs 12.179 af
Reach 11.4aR: DP11.3	Avg. Flow Depth=0.95' Max Vel=14.44 fps Inflow=131.90 cfs 20.663 af n=0.050 L=220.0' S=0.3636 1/' Capacity=858.32 cfs Outflow=131.72 cfs 20.663 af
Reach 11.4bR: DP11.4	Avg. Flow Depth=0.72' Max Vel=10.59 fps Inflow=21.57 cfs 6.098 af n=0.040 L=145.0' S=0.2621 1/' Capacity=231.18 cfs Outflow=21.56 cfs 6.098 af
Reach 11.4R: DP-11.2	Avg. Flow Depth=1.16' Max Vel=10.43 fps Inflow=129.63 cfs 20.101 af n=0.050 L=267.0' S=0.1498 1/' Capacity=575.36 cfs Outflow=129.36 cfs 20.101 af
Reach 11.5aR: DP11.5	Avg. Flow Depth=0.37' Max Vel=6.86 fps Inflow=4.95 cfs 0.673 af n=0.040 L=620.0' S=0.2323 1/' Capacity=217.63 cfs Outflow=4.84 cfs 0.673 af
Reach 11.5R: Mountain stream	Avg. Flow Depth=0.82' Max Vel=11.66 fps Inflow=149.68 cfs 26.761 af n=0.050 L=455.0' S=0.2242 1/' Capacity=2,943.05 cfs Outflow=149.20 cfs 26.761 af
Reach 11.6aR: Mountain stream	Avg. Flow Depth=1.05' Max Vel=17.07 fps Inflow=218.10 cfs 37.612 af n=0.050 L=245.0' S=0.4000 1/' Capacity=3,987.80 cfs Outflow=217.64 cfs 37.612 af

Reach 11.6R: Mountain stream	Avg. Flow Depth=0.98' Max Vel=12.99 fps Inflow=152.72 cfs 27.435 af n=0.050 L=475.0' S=0.2505 1/' Capacity=3,155.95 cfs Outflow=152.16 cfs 27.435 af
Reach 11.8R: Mountain stream	Avg. Flow Depth=0.92' Max Vel=14.77 fps Inflow=217.64 cfs 37.612 af n=0.050 L=360.0' S=0.3139 1/' Capacity=13,400.37 cfs Outflow=216.84 cfs 37.612 af
Reach DP-1: Design Point-1	Avg. Flow Depth=1.27' Max Vel=14.31 fps Inflow=150.59 cfs 26.263 af n=0.040 L=10.0' S=0.1500 1/' Capacity=670.80 cfs Outflow=150.58 cfs 26.263 af
Reach DP-11: Design Point-11	Inflow=378.16 cfs 61.953 af Outflow=378.16 cfs 61.953 af
Reach DP-12: Design Point-12	Avg. Flow Depth=0.70' Max Vel=10.63 fps Inflow=30.74 cfs 7.175 af n=0.040 L=10.0' S=0.2000 1/' Capacity=128.70 cfs Outflow=30.74 cfs 7.175 af
Reach DP-1a: Design Point-1a	Avg. Flow Depth=0.76' Max Vel=7.33 fps Inflow=33.37 cfs 6.233 af n=0.040 L=10.0' S=0.1000 1/' Capacity=97.10 cfs Outflow=33.36 cfs 6.234 af
Reach DP-2: Design Point-2	Avg. Flow Depth=0.92' Max Vel=13.27 fps Inflow=66.96 cfs 12.162 af n=0.040 L=10.0' S=0.2000 1/' Capacity=233.42 cfs Outflow=66.95 cfs 12.162 af
Reach DP-2a: Design Point-2a	Inflow=5.15 cfs 0.448 af Outflow=5.15 cfs 0.448 af
Reach DP-2b: Design Point-2b	Inflow=18.47 cfs 1.657 af Outflow=18.47 cfs 1.657 af
Reach DP-3: Design Point-3	Avg. Flow Depth=0.83' Max Vel=14.63 fps Inflow=26.11 cfs 1.413 af n=0.040 L=150.0' S=0.4000 1/' Capacity=79.12 cfs Outflow=26.03 cfs 1.413 af
Reach DP-4: Design Point-4	Avg. Flow Depth=0.65' Max Vel=12.62 fps Inflow=54.41 cfs 11.931 af n=0.050 L=10.0' S=0.4000 1/' Capacity=768.66 cfs Outflow=54.40 cfs 11.931 af
Reach DP-5: Design Point-5	Avg. Flow Depth=1.45' Max Vel=12.59 fps Inflow=91.53 cfs 8.911 af n=0.035 L=10.0' S=0.1000 1/' Capacity=273.11 cfs Outflow=91.48 cfs 8.911 af
Reach DP-6: Design Point 6	Inflow=8.30 cfs 0.772 af Outflow=8.30 cfs 0.772 af
Reach DP-7: Design Point-7	Inflow=8.80 cfs 0.724 af Outflow=8.80 cfs 0.724 af
Reach DP-8: Design Point-8	Avg. Flow Depth=1.57' Max Vel=11.50 fps Inflow=105.67 cfs 19.870 af n=0.040 L=10.0' S=0.1000 1/' Capacity=277.01 cfs Outflow=105.68 cfs 19.870 af
Reach DP-9: Design Point-9	Avg. Flow Depth=1.60' Max Vel=10.81 fps Inflow=62.61 cfs 11.582 af n=0.040 L=100.0' S=0.1000 1/' Capacity=152.56 cfs Outflow=62.22 cfs 11.582 af
Reach R1.1: Mountain Stream	Avg. Flow Depth=0.81' Max Vel=10.93 fps Inflow=104.89 cfs 12.361 af n=0.040 L=805.0' S=0.1342 1/' Capacity=1,947.63 cfs Outflow=103.08 cfs 12.361 af

Reach R1.12: WETLAND	Avg. Flow Depth=0.16' Max Vel=9.76 fps Inflow=32.38 cfs 5.962 af n=0.035 L=200.0' S=0.6000 1/ Capacity=206.27 cfs Outflow=32.27 cfs 5.962 af
Reach R1.2: Mountain Stream	Avg. Flow Depth=1.21' Max Vel=12.99 fps Inflow=112.14 cfs 13.435 af n=0.040 L=616.0' S=0.1461 1/ Capacity=636.66 cfs Outflow=110.73 cfs 13.435 af
Reach R1.8: WETLAND	Avg. Flow Depth=0.19' Max Vel=3.85 fps Inflow=14.66 cfs 1.334 af n=0.070 L=120.0' S=0.3083 1/ Capacity=73.93 cfs Outflow=14.31 cfs 1.334 af
Reach R11.1: DP11.6	Avg. Flow Depth=0.69' Max Vel=4.99 fps Inflow=17.65 cfs 2.099 af n=0.070 L=310.0' S=0.1742 1/ Capacity=102.63 cfs Outflow=17.41 cfs 2.099 af
Reach R11.12: Mountain stream	Avg. Flow Depth=0.69' Max Vel=12.32 fps Inflow=18.89 cfs 1.722 af n=0.040 L=200.0' S=0.3350 1/ Capacity=678.27 cfs Outflow=18.44 cfs 1.722 af
Reach R11.13: Mountain stream	Avg. Flow Depth=0.62' Max Vel=9.15 fps Inflow=68.17 cfs 10.264 af n=0.050 L=220.0' S=0.2045 1/ Capacity=4,439.64 cfs Outflow=67.93 cfs 10.264 af
Reach R11.14: Mountain stream	Avg. Flow Depth=0.16' Max Vel=4.55 fps Inflow=2.66 cfs 0.217 af n=0.040 L=140.0' S=0.2071 1/ Capacity=989.43 cfs Outflow=2.60 cfs 0.217 af
Reach R11.16: SWALE	Avg. Flow Depth=1.10' Max Vel=9.46 fps Inflow=32.51 cfs 3.985 af n=0.040 L=450.0' S=0.1111 1/ Capacity=160.81 cfs Outflow=32.12 cfs 3.985 af
Reach R11.1A: DP11.7	Avg. Flow Depth=1.01' Max Vel=11.23 fps Inflow=74.75 cfs 10.177 af n=0.040 L=950.0' S=0.1884 1/ Capacity=186.80 cfs Outflow=73.43 cfs 10.177 af
Reach R11.1B: Mountain stream	Avg. Flow Depth=0.47' Max Vel=8.35 fps Inflow=16.06 cfs 1.633 af n=0.040 L=200.0' S=0.2500 1/ Capacity=215.17 cfs Outflow=15.70 cfs 1.633 af
Reach R11.25: SWALE	Avg. Flow Depth=1.29' Max Vel=7.21 fps Inflow=43.43 cfs 5.152 af n=0.040 L=350.0' S=0.0543 1/ Capacity=110.44 cfs Outflow=42.51 cfs 5.152 af
Reach R11.27: Overland	Avg. Flow Depth=0.10' Max Vel=4.34 fps Inflow=46.23 cfs 5.551 af n=0.035 L=640.0' S=0.2156 1/ Capacity=620.34 cfs Outflow=45.42 cfs 5.551 af
Reach R11.30: SWALE	Avg. Flow Depth=0.68' Max Vel=2.10 fps Inflow=4.96 cfs 0.862 af n=0.040 L=325.0' S=0.0092 1/ Capacity=24.23 cfs Outflow=4.81 cfs 0.862 af
Reach R11.31: SWALE	Avg. Flow Depth=0.46' Max Vel=3.53 fps Inflow=4.86 cfs 0.444 af n=0.040 L=140.0' S=0.0393 1/ Capacity=49.99 cfs Outflow=4.72 cfs 0.444 af
Reach R11.33: Bouldery stream	Avg. Flow Depth=0.58' Max Vel=7.54 fps Inflow=36.23 cfs 5.031 af n=0.050 L=190.0' S=0.1579 1/ Capacity=454.15 cfs Outflow=36.08 cfs 5.031 af
Reach R11.37: SWALE	Avg. Flow Depth=1.22' Max Vel=9.42 fps Inflow=36.61 cfs 4.420 af n=0.040 L=600.0' S=0.1000 1/ Capacity=96.77 cfs Outflow=35.93 cfs 4.420 af
Reach R11.38: Wetland	Avg. Flow Depth=0.24' Max Vel=0.73 fps Inflow=4.81 cfs 0.862 af n=0.100 L=306.0' S=0.0163 1/ Capacity=14.90 cfs Outflow=4.37 cfs 0.862 af

Reach R11.39: SWALE

Avg. Flow Depth=0.31' Max Vel=4.16 fps Inflow=2.97 cfs 0.829 af
 n=0.040 L=310.0' S=0.0806 1/' Capacity=49.35 cfs Outflow=2.96 cfs 0.829 af

Reach R11.40: SWALE

Avg. Flow Depth=0.29' Max Vel=7.90 fps Inflow=5.94 cfs 0.555 af
 n=0.040 L=310.0' S=0.3226 1/' Capacity=143.25 cfs Outflow=5.76 cfs 0.555 af

Reach R2.7: SWALE

Avg. Flow Depth=0.85' Max Vel=4.26 fps Inflow=14.87 cfs 1.399 af
 n=0.040 L=705.0' S=0.0298 1/' Capacity=81.81 cfs Outflow=13.37 cfs 1.399 af

Reach R3.1: SWALE

Avg. Flow Depth=0.65' Max Vel=10.43 fps Inflow=22.55 cfs 0.581 af
 n=0.040 L=420.0' S=0.2381 1/' Capacity=123.06 cfs Outflow=22.25 cfs 0.581 af

Reach R4.2: SWALE

Avg. Flow Depth=0.68' Max Vel=10.50 fps Inflow=52.83 cfs 5.727 af
 n=0.040 L=350.0' S=0.1771 1/' Capacity=219.76 cfs Outflow=51.95 cfs 5.727 af

Reach R4.5: swale

Avg. Flow Depth=1.40' Max Vel=10.44 fps Inflow=49.42 cfs 11.025 af
 n=0.040 L=560.0' S=0.1071 1/' Capacity=100.17 cfs Outflow=49.23 cfs 11.025 af

Reach R4.7: swale

Avg. Flow Depth=0.85' Max Vel=17.20 fps Inflow=54.32 cfs 11.919 af
 n=0.040 L=60.0' S=0.4833 1/' Capacity=329.55 cfs Outflow=54.30 cfs 11.919 af

Reach R5.2: SWALE

Avg. Flow Depth=1.11' Max Vel=9.75 fps Inflow=34.86 cfs 3.021 af
 n=0.040 L=640.0' S=0.1187 1/' Capacity=105.45 cfs Outflow=32.83 cfs 3.021 af

Reach R5.3: SWALE

Avg. Flow Depth=1.47' Max Vel=6.43 fps Inflow=46.69 cfs 4.421 af
 n=0.040 L=187.0' S=0.0374 1/' Capacity=151.95 cfs Outflow=45.91 cfs 4.421 af

Reach R8.16: SWALE

Avg. Flow Depth=0.66' Max Vel=10.89 fps Inflow=38.69 cfs 4.293 af
 n=0.040 L=315.0' S=0.2159 1/' Capacity=178.88 cfs Outflow=37.43 cfs 4.293 af

Reach R8.17: SWALE

Avg. Flow Depth=0.70' Max Vel=11.20 fps Inflow=42.47 cfs 4.762 af
 n=0.040 L=280.0' S=0.2107 1/' Capacity=176.73 cfs Outflow=42.29 cfs 4.762 af

Reach R8.18: Mountain stream

Avg. Flow Depth=1.14' Max Vel=6.21 fps Inflow=34.15 cfs 5.360 af
 n=0.080 L=870.0' S=0.1736 1/' Capacity=109.52 cfs Outflow=33.89 cfs 5.360 af

Reach R8.2: SWALE

Avg. Flow Depth=0.65' Max Vel=5.75 fps Inflow=10.06 cfs 1.141 af
 n=0.040 L=407.0' S=0.0713 1/' Capacity=46.39 cfs Outflow=9.64 cfs 1.141 af

Reach R8.21: SWALE

Avg. Flow Depth=0.78' Max Vel=13.44 fps Inflow=58.61 cfs 5.820 af
 n=0.040 L=520.0' S=0.2788 1/' Capacity=203.30 cfs Outflow=56.43 cfs 5.820 af

Reach R8.4: SWALE

Avg. Flow Depth=1.07' Max Vel=8.27 fps Inflow=27.02 cfs 2.895 af
 n=0.040 L=525.0' S=0.0876 1/' Capacity=51.44 cfs Outflow=26.20 cfs 2.895 af

Reach R8.6: SWALE

Avg. Flow Depth=1.08' Max Vel=9.55 fps Inflow=32.01 cfs 3.589 af
 n=0.040 L=345.0' S=0.1159 1/' Capacity=59.17 cfs Outflow=31.46 cfs 3.589 af

Reach R9.10: Swale

Avg. Flow Depth=0.79' Max Vel=6.79 fps Inflow=19.08 cfs 5.466 af
 n=0.040 L=170.0' S=0.0824 1/' Capacity=136.03 cfs Outflow=19.02 cfs 5.466 af

Reach R9.2: Swale	Avg. Flow Depth=0.76' Max Vel=7.41 fps Inflow=21.35 cfs 1.909 af n=0.040 L=1,250.0' S=0.1016 1/' Capacity=80.39 cfs Outflow=19.79 cfs 1.909 af
Reach R9.3: Swale	Avg. Flow Depth=1.11' Max Vel=9.53 fps Inflow=45.74 cfs 4.817 af n=0.040 L=1,000.0' S=0.1120 1/' Capacity=158.64 cfs Outflow=43.58 cfs 4.817 af
Reach R9.4: Swale	Avg. Flow Depth=0.78' Max Vel=7.38 fps Inflow=20.93 cfs 2.364 af n=0.040 L=540.0' S=0.0981 1/' Capacity=148.51 cfs Outflow=20.22 cfs 2.364 af
Pond 6.2P: BIORETENTION	Peak Elev=1,686.67' Storage=1,824 cf Inflow=1.18 cfs 0.106 af Outflow=0.97 cfs 0.106 af
Pond 6.3P: BIORETENTION	Peak Elev=1,686.67' Storage=1,824 cf Inflow=1.18 cfs 0.106 af Outflow=0.97 cfs 0.106 af
Pond 11.3R: DP11.1	Peak Elev=2,413.22' Storage=1,017 cf Inflow=75.97 cfs 12.186 af 72.0" Round Culvert x 2.00 n=0.025 L=120.0' S=0.1333 1/' Outflow=75.95 cfs 12.179 af
Pond 11.7R: Culvert	Peak Elev=1,896.69' Inflow=217.64 cfs 37.612 af Outflow=217.64 cfs 37.612 af
Pond 11.9R: Culvert	Peak Elev=1,778.44' Storage=4,939 cf Inflow=216.84 cfs 37.612 af Outflow=216.40 cfs 37.612 af
Pond P1.1: Pond 1.1	Peak Elev=2,164.24' Storage=103,538 cf Inflow=54.40 cfs 5.963 af Outflow=32.38 cfs 5.962 af
Pond P1.2: BIORETENTION	Peak Elev=2,227.72' Storage=3,645 cf Inflow=1.56 cfs 0.138 af Outflow=1.09 cfs 0.138 af
Pond P1.3: Pond 1.3	Peak Elev=2,170.27' Storage=185,271 cf Inflow=72.75 cfs 9.851 af Outflow=35.22 cfs 9.847 af
Pond P1.4: BIORETENTION	Peak Elev=2,214.94' Storage=18,951 cf Inflow=7.18 cfs 0.657 af Outflow=2.63 cfs 0.657 af
Pond P11.1: P-1	Peak Elev=2,303.48' Storage=111,438 cf Inflow=47.40 cfs 5.887 af Outflow=20.89 cfs 5.885 af
Pond P11.10: DRY SWALE	Peak Elev=2,193.37' Storage=2,230 cf Inflow=5.45 cfs 0.444 af Outflow=4.86 cfs 0.444 af
Pond P11.11: BIORETENTION	Peak Elev=2,183.66' Storage=10,907 cf Inflow=6.43 cfs 0.616 af Outflow=3.56 cfs 0.615 af
Pond P11.12: BIORETENTION	Peak Elev=2,514.63' Storage=8,400 cf Inflow=8.28 cfs 0.705 af Outflow=9.67 cfs 0.803 af
Pond P11.14: BIORETENTION	Peak Elev=2,414.29' Storage=8,400 cf Inflow=3.70 cfs 0.319 af Outflow=1.64 cfs 0.301 af

Pond P11.2: BIORETENTION	Peak Elev=2,373.21' Storage=24,387 cf Inflow=11.02 cfs 0.987 af Outflow=3.32 cfs 0.987 af
Pond P11.4: BIORETENTION	Peak Elev=2,459.06' Storage=23,609 cf Inflow=9.54 cfs 0.828 af Outflow=2.97 cfs 0.829 af
Pond P11.6: DRY SWALE	Peak Elev=2,483.10' Storage=1,168 cf Inflow=0.91 cfs 0.085 af Outflow=0.81 cfs 0.085 af
Pond P11.7: BIORETENTION	Peak Elev=2,249.05' Storage=9,671 cf Inflow=3.97 cfs 0.338 af Outflow=1.59 cfs 0.338 af
Pond P11.8: BIORETENTION	Peak Elev=2,260.96' Storage=6,238 cf Inflow=2.33 cfs 0.206 af Outflow=0.68 cfs 0.206 af
Pond P11.9: BIORETENTION	Peak Elev=2,219.71' Storage=3,655 cf Inflow=3.00 cfs 0.246 af Outflow=2.63 cfs 0.246 af
Pond P12.1: Pond 12.1	Peak Elev=2,300.54' Storage=66,985 cf Inflow=27.88 cfs 2.785 af Outflow=4.95 cfs 2.782 af
Pond P2.1: Pond 2.1	Peak Elev=2,187.92' Storage=128,915 cf Inflow=55.78 cfs 6.359 af Outflow=20.47 cfs 6.354 af
Pond P4.1: P-1	Peak Elev=2,190.30' Storage=146,712 cf Inflow=90.61 cfs 10.318 af Primary=42.73 cfs 9.733 af Secondary=22.55 cfs 0.581 af Outflow=65.28 cfs 10.315 af
Pond P6.1: BIORETENTION	Peak Elev=1,686.67' Storage=1,824 cf Inflow=1.18 cfs 0.106 af Outflow=0.97 cfs 0.106 af
Pond P8.1: DRY SWALE	Peak Elev=2,309.59' Storage=2,746 cf Inflow=11.68 cfs 1.164 af Outflow=10.06 cfs 1.141 af
Pond P8.2: P-3	Peak Elev=1,683.59' Storage=84,660 cf Inflow=51.17 cfs 5.599 af Outflow=36.13 cfs 5.597 af
Pond P8.3: DRY SWALE	Peak Elev=1,756.38' Storage=2,184 cf Inflow=5.74 cfs 0.469 af Outflow=5.16 cfs 0.469 af
Pond P8.4: P-3	Peak Elev=1,670.78' Storage=128,129 cf Inflow=66.40 cfs 6.828 af Primary=27.22 cfs 6.660 af Secondary=7.59 cfs 0.168 af Outflow=34.81 cfs 6.828 af
Pond P8.5: I-2	Peak Elev=1,679.67' Storage=23,074 cf Inflow=12.77 cfs 1.054 af Discarded=0.25 cfs 0.707 af Primary=2.01 cfs 0.346 af Outflow=2.26 cfs 1.054 af
Pond P9.2: Pond 9.2	Peak Elev=1,674.67' Storage=115,719 cf Inflow=52.03 cfs 5.467 af Outflow=19.08 cfs 5.466 af
Pond R1.10: PIPE	Peak Elev=2,264.74' Inflow=61.26 cfs 7.991 af 36.0" Round Culvert n=0.020 L=1,125.0' S=0.0667 '/' Outflow=61.26 cfs 7.991 af

Pond R1.11: Pipe	Peak Elev=2,193.13' Inflow=63.55 cfs 8.313 af 48.0" Round Culvert n=0.020 L=230.0' S=0.0435 '/ Outflow=63.55 cfs 8.313 af
Pond R1.3: Culvert	Peak Elev=2,402.75' Inflow=33.80 cfs 3.614 af 36.0" Round Culvert n=0.013 L=1,255.0' S=0.0653 '/ Outflow=33.80 cfs 3.614 af
Pond R1.4: pipe	Peak Elev=2,302.50' Inflow=33.80 cfs 3.614 af 36.0" Round Culvert n=0.020 L=950.0' S=0.0926 '/ Outflow=33.80 cfs 3.614 af
Pond R1.5: Pipe	Peak Elev=2,197.71' Inflow=37.78 cfs 4.155 af 36.0" Round Culvert n=0.020 L=120.0' S=0.1250 '/ Outflow=37.78 cfs 4.155 af
Pond R1.6: pipe	Peak Elev=2,208.42' Inflow=5.93 cfs 0.540 af 24.0" Round Culvert n=0.020 L=260.0' S=0.0050 '/ Outflow=5.93 cfs 0.540 af
Pond R1.7: Culvert	Peak Elev=2,206.94' Inflow=14.66 cfs 1.334 af 60.0" x 36.0" Box Culvert n=0.013 L=50.0' S=0.0200 '/ Outflow=14.66 cfs 1.334 af
Pond R1.9: PIPE	Peak Elev=2,298.75' Inflow=51.01 cfs 6.233 af 36.0" Round Culvert n=0.020 L=350.0' S=0.0943 '/ Outflow=51.01 cfs 6.233 af
Pond R11.11: CULVERT	Peak Elev=2,479.85' Inflow=18.08 cfs 1.638 af 30.0" Round Culvert n=0.020 L=35.0' S=0.2857 '/ Outflow=18.08 cfs 1.638 af
Pond R11.15: CB	Peak Elev=2,454.84' Inflow=32.51 cfs 3.985 af 36.0" Round Culvert n=0.020 L=110.0' S=0.0091 '/ Outflow=32.51 cfs 3.985 af
Pond R11.17: CB	Peak Elev=2,437.38' Inflow=31.56 cfs 3.864 af 36.0" Round Culvert n=0.020 L=290.0' S=0.0862 '/ Outflow=31.56 cfs 3.864 af
Pond R11.19: CB	Peak Elev=2,421.00' Inflow=7.02 cfs 0.617 af 36.0" Round Culvert n=0.020 L=290.0' S=0.0862 '/ Outflow=7.02 cfs 0.617 af
Pond R11.20: CULVERT	Peak Elev=2,460.84' Inflow=17.85 cfs 1.934 af 30.0" Round Culvert n=0.020 L=900.0' S=0.0722 '/ Outflow=17.85 cfs 1.934 af
Pond R11.21: CULVERT	Peak Elev=2,396.36' Inflow=31.14 cfs 3.654 af 36.0" Round Culvert n=0.020 L=900.0' S=0.0733 '/ Outflow=31.14 cfs 3.654 af
Pond R11.22: CB	Peak Elev=2,460.49' Inflow=1.53 cfs 0.143 af 36.0" Round Culvert n=0.020 L=770.0' S=0.0130 '/ Outflow=1.53 cfs 0.143 af
Pond R11.24: CB	Peak Elev=2,487.79' Inflow=15.10 cfs 1.989 af 30.0" Round Culvert n=0.020 L=695.0' S=0.0719 '/ Outflow=15.10 cfs 1.989 af
Pond R11.26: BOX CULVERT	Peak Elev=2,312.20' Inflow=46.23 cfs 5.551 af 60.0" x 36.0" Box Culvert n=0.020 L=50.0' S=0.0200 '/ Outflow=46.23 cfs 5.551 af
Pond R11.32: CULVERT	Peak Elev=2,437.04' Inflow=33.31 cfs 4.203 af 36.0" Round Culvert n=0.020 L=110.0' S=0.0818 '/ Outflow=33.31 cfs 4.203 af

Pond R12.1: CB	Peak Elev=2,310.09'	Inflow=2.75 cfs	0.257 af
	24.0" Round Culvert n=0.020 L=630.0' S=0.0100 '/'	Outflow=2.75 cfs	0.257 af
Pond R2.1: PIPE	Peak Elev=2,289.70'	Inflow=18.37 cfs	2.086 af
	36.0" Round Culvert n=0.020 L=1,185.0' S=0.0616 '/'	Outflow=18.37 cfs	2.086 af
Pond R2.2: PIPE	Peak Elev=2,214.98'	Inflow=23.77 cfs	2.987 af
	36.0" Round Culvert n=0.020 L=795.0' S=0.0289 '/'	Outflow=23.77 cfs	2.987 af
Pond R2.3: catch basin	Peak Elev=2,266.95'	Inflow=21.13 cfs	2.112 af
		Outflow=21.13 cfs	2.112 af
Pond R2.5: Road culvert	Peak Elev=2,230.43'	Inflow=11.94 cfs	1.126 af
	36.0" Round Culvert n=0.020 L=75.0' S=0.0400 '/'	Outflow=11.94 cfs	1.126 af
Pond R2.6: Road Culvert	Peak Elev=2,216.86'	Inflow=2.94 cfs	0.273 af
	18.0" Round Culvert n=0.020 L=30.0' S=0.0333 '/'	Outflow=2.94 cfs	0.273 af
Pond R2.8: cb	Peak Elev=2,189.18'	Inflow=27.71 cfs	2.944 af
	36.0" Round Culvert n=0.020 L=450.0' S=0.0600 '/'	Outflow=27.71 cfs	2.944 af
Pond R4.1: catch basin	Peak Elev=2,291.07'	Inflow=52.83 cfs	5.727 af
		Outflow=52.83 cfs	5.727 af
Pond R4.3: culvert	Peak Elev=2,213.12'	Inflow=57.77 cfs	6.500 af
		Outflow=57.77 cfs	6.500 af
Pond R4.4: CULVERT	Peak Elev=2,184.32'	Inflow=42.73 cfs	9.733 af
	36.0" Round Culvert n=0.020 L=580.0' S=0.1962 '/'	Outflow=42.73 cfs	9.733 af
Pond R4.6: CULVERT	Peak Elev=2,008.77'	Inflow=54.32 cfs	11.919 af
	36.0" Round Culvert n=0.020 L=50.0' S=0.0200 '/'	Outflow=54.32 cfs	11.919 af
Pond R4.8: CULVERT	Peak Elev=2,094.41'	Inflow=15.85 cfs	1.291 af
	24.0" Round Culvert n=0.020 L=150.0' S=0.1667 '/'	Outflow=15.85 cfs	1.291 af
Pond R5.1: CULVERT	Peak Elev=1,907.28'	Inflow=34.86 cfs	3.021 af
	33.0" Round Culvert n=0.020 L=810.0' S=0.1000 '/'	Outflow=34.86 cfs	3.021 af
Pond R8.1: CULVERT	Peak Elev=2,309.58'	Inflow=10.06 cfs	1.141 af
	24.0" Round Culvert n=0.020 L=275.0' S=0.0145 '/'	Outflow=10.06 cfs	1.141 af
Pond R8.10: CB	Peak Elev=1,979.27'	Inflow=63.04 cfs	6.890 af
	45.0" Round Culvert n=0.020 L=765.0' S=0.1007 '/'	Outflow=63.04 cfs	6.890 af
Pond R8.12: CULVERT	Peak Elev=1,904.21'	Inflow=20.55 cfs	1.999 af
	30.0" Round Culvert n=0.020 L=40.0' S=0.0750 '/'	Outflow=20.55 cfs	1.999 af
Pond R8.13: CB	Peak Elev=1,899.86'	Inflow=83.62 cfs	8.889 af
	48.0" Round Culvert n=0.020 L=835.0' S=0.0862 '/'	Outflow=83.62 cfs	8.889 af

Pond R8.15: CB Peak Elev=1,823.97' Inflow=97.31 cfs 10.113 af
 Primary=58.61 cfs 5.820 af Secondary=38.69 cfs 4.293 af Outflow=97.31 cfs 10.113 af

Pond R8.20: PIPE Peak Elev=1,820.17' Inflow=58.61 cfs 5.820 af
 42.0" Round Culvert n=0.020 L=220.0' S=0.0045 '/ Outflow=58.61 cfs 5.820 af

Pond R8.22: New Culvert Peak Elev=1,670.64' Inflow=105.56 cfs 19.524 af
 Outflow=105.56 cfs 19.524 af

Pond R8.3: CULVERT Peak Elev=2,274.20' Inflow=27.02 cfs 2.895 af
 Outflow=27.02 cfs 2.895 af

Pond R8.5: CULVERT Peak Elev=2,224.33' Inflow=32.01 cfs 3.589 af
 Outflow=32.01 cfs 3.589 af

Pond R8.7: CULVERT Peak Elev=2,181.30' Inflow=51.38 cfs 5.841 af
 42.0" Round Culvert n=0.020 L=200.0' S=0.0750 '/ Outflow=51.38 cfs 5.841 af

Pond R8.8: CB Peak Elev=2,163.15' Inflow=55.06 cfs 6.235 af
 42.0" Round Culvert n=0.020 L=880.0' S=0.0943 '/ Outflow=55.06 cfs 6.235 af

Pond R8.9: CB Peak Elev=2,077.36' Inflow=59.56 cfs 6.567 af
 42.0" Round Culvert n=0.020 L=900.0' S=0.1056 '/ Outflow=59.56 cfs 6.567 af

Pond R9.1: pipes Peak Elev=1,817.74' Inflow=14.45 cfs 1.667 af
 Outflow=14.45 cfs 1.667 af

Pond R9.11: Culvert Peak Elev=1,661.86' Inflow=52.29 cfs 10.283 af
 36.0" Round Culvert n=0.020 L=50.0' S=0.0400 '/ Outflow=52.29 cfs 10.283 af

Pond R9.2A: Culvert Peak Elev=1,774.54' Inflow=45.74 cfs 4.817 af
 48.0" Round Culvert n=0.020 L=40.0' S=0.0500 '/ Outflow=45.74 cfs 4.817 af

Pond R9.5: Culvert Peak Elev=1,715.51' Inflow=19.72 cfs 1.825 af
 54.0" Round Culvert n=0.020 L=60.0' S=0.0667 '/ Outflow=19.72 cfs 1.825 af

Pond R9.6: Culvert Peak Elev=1,685.10' Inflow=4.94 cfs 0.480 af
 18.0" Round Culvert n=0.020 L=100.0' S=0.0200 '/ Outflow=4.94 cfs 0.480 af

ck_Windham\08077HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.1~Link 1.1L.hce Inflow=1.10 cfs 0.169 af
 Area= 0.275 ac 100.00% Imperv. Primary=1.10 cfs 0.169 af

ck_Windham\08077HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.2~Link 1.2L.hce Inflow=1.04 cfs 0.162 af
 Area= 0.264 ac 100.00% Imperv. Primary=1.04 cfs 0.162 af

ck_Windham\08077HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.3~Link 1.3L.hce Inflow=0.51 cfs 0.092 af
 Area= 0.149 ac 100.00% Imperv. Primary=0.51 cfs 0.092 af

ck_Windham\08077HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.4~Link 1.4L.hce Inflow=0.66 cfs 0.099 af
 Area= 0.161 ac 100.00% Imperv. Primary=0.66 cfs 0.099 af

08077_Proposed-localprecipdata

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 337

ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.5~Link 1.5L.hce	Inflow=2.03 cfs	0.303 af	Area= 0.494 ac	100.00% Imperv.	Primary=2.03 cfs	0.303 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.6~Link 1.6L.hce	Inflow=1.54 cfs	0.233 af	Area= 0.379 ac	100.00% Imperv.	Primary=1.54 cfs	0.233 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 1.9~Link 1.9L.hce	Inflow=1.85 cfs	0.324 af	Area= 0.528 ac	100.00% Imperv.	Primary=1.85 cfs	0.324 af
_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.10~Link 2.10L.hce	Inflow=2.06 cfs	0.345 af	Area= 0.562 ac	100.00% Imperv.	Primary=2.06 cfs	0.345 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.1~Link 2.1L.hce	Inflow=0.44 cfs	0.070 af	Area= 0.115 ac	100.00% Imperv.	Primary=0.44 cfs	0.070 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.3~Link 2.3L.hce	Inflow=0.98 cfs	0.148 af	Area= 0.241 ac	100.00% Imperv.	Primary=0.98 cfs	0.148 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.6~Link 2.6L.hce	Inflow=1.64 cfs	0.247 af	Area= 0.402 ac	100.00% Imperv.	Primary=1.64 cfs	0.247 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.7~Link 2.7L.hce	Inflow=1.64 cfs	0.247 af	Area= 0.402 ac	100.00% Imperv.	Primary=1.64 cfs	0.247 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.8~Link 2.8L.hce	Inflow=0.39 cfs	0.056 af	Area= 0.092 ac	100.00% Imperv.	Primary=0.39 cfs	0.056 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 2.9~Link 2.9L.hce	Inflow=2.62 cfs	0.395 af	Area= 0.643 ac	100.00% Imperv.	Primary=2.62 cfs	0.395 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 4.1~Link 4.1L.hce	Inflow=2.42 cfs	0.360 af	Area= 0.585 ac	100.00% Imperv.	Primary=2.42 cfs	0.360 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 4.3~Link 4.3L.hce	Inflow=5.64 cfs	0.846 af	Area= 1.377 ac	100.00% Imperv.	Primary=5.64 cfs	0.846 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 4.4~Link 4.4L.hce	Inflow=1.04 cfs	0.155 af	Area= 0.253 ac	100.00% Imperv.	Primary=1.04 cfs	0.155 af
ck_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 5.2~Link 5.2L.hce	Inflow=1.37 cfs	0.204 af	Area= 0.333 ac	100.00% Imperv.	Primary=1.37 cfs	0.204 af
_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.10~Link 8.10L.hce	Inflow=2.62 cfs	0.395 af	Area= 0.643 ac	100.00% Imperv.	Primary=2.62 cfs	0.395 af
_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.11~Link 8.11L.hce	Inflow=0.33 cfs	0.049 af	Area= 0.080 ac	100.00% Imperv.	Primary=0.33 cfs	0.049 af
_Windham\08077	HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.15~Link 8.15L.hce	Inflow=0.33 cfs	0.049 af	Area= 0.080 ac	100.00% Imperv.	Primary=0.33 cfs	0.049 af

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Page 338

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.1~Link 8.1L.hce Inflow=0.33 cfs 0.049 af
Area= 0.080 ac 100.00% Imperv. Primary=0.33 cfs 0.049 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.4~Link 8.4L.hce Inflow=1.16 cfs 0.176 af
Area= 0.287 ac 100.00% Imperv. Primary=1.16 cfs 0.176 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.5~Link 8.5L.hce Inflow=1.14 cfs 0.183 af
Area= 0.298 ac 100.00% Imperv. Primary=1.14 cfs 0.183 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 8.8~Link 8.8L.hce Inflow=0.98 cfs 0.148 af
Area= 0.241 ac 100.00% Imperv. Primary=0.98 cfs 0.148 af

_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 9.10~Link 9.10L.hce Inflow=1.31 cfs 0.197 af
Area= 0.321 ac 100.00% Imperv. Primary=1.31 cfs 0.197 af

_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 9.11~Link 9.11L.hce Inflow=1.64 cfs 0.247 af
Area= 0.402 ac 100.00% Imperv. Primary=1.64 cfs 0.247 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 9.1~Link 9.1L.hce Inflow=0.98 cfs 0.148 af
Area= 0.241 ac 100.00% Imperv. Primary=0.98 cfs 0.148 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 9.5~Link 9.5L.hce Inflow=0.39 cfs 0.056 af
Area= 0.092 ac 100.00% Imperv. Primary=0.39 cfs 0.056 af

ck_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 9.6~Link 9.6L.hce Inflow=2.30 cfs 0.345 af
Area= 0.562 ac 100.00% Imperv. Primary=2.30 cfs 0.345 af

Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 11.14~Link 11.14L.hce Inflow=0.33 cfs 0.049 af
Area= 0.080 ac 100.00% Imperv. Primary=0.33 cfs 0.049 af

Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 11.18~Link 11.18L.hce Inflow=0.39 cfs 0.063 af
Area= 0.103 ac 100.00% Imperv. Primary=0.39 cfs 0.063 af

Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 11.25~Link 11.25L.hce Inflow=0.66 cfs 0.099 af
Area= 0.161 ac 100.00% Imperv. Primary=0.66 cfs 0.099 af

Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 11.33~Link 11.33L.hce Inflow=0.33 cfs 0.049 af
Area= 0.080 ac 100.00% Imperv. Primary=0.33 cfs 0.049 af

_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 11.3~Link 11.3L.hce Inflow=1.75 cfs 0.268 af
Area= 0.436 ac 100.00% Imperv. Primary=1.75 cfs 0.268 af

_Windham\08077\HydroCad\Residential Stuff\Residential Lot Subcatchments\08077_Sub 12.2~Link 12.2L.hce Inflow=1.51 cfs 0.233 af
Area= 0.379 ac 100.00% Imperv. Primary=1.51 cfs 0.233 af

**Total Runoff Area = 449.666 ac Runoff Volume = 164.507 af Average Runoff Depth = 4.39"
93.36% Pervious = 419.787 ac 6.64% Impervious = 29.879 ac**

Summary for Subcatchment 1.10S: Area 1.10

Runoff = 1.56 cfs @ 12.04 hrs, Volume= 0.138 af, Depth= 6.78"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
8,640	98	Paved parking, HSG C
2,000	71	Meadow, non-grazed, HSG C
10,640	93	Weighted Average
2,000		18.80% Pervious Area
8,640		81.20% Impervious Area

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

Summary for Subcatchment 1.11S: Area 1.11

Runoff = 1.88 cfs @ 12.06 hrs, Volume= 0.184 af, Depth= 7.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
12,060	98	Paved parking, HSG C
1,400	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
13,460	96	Weighted Average
1,400		10.40% Pervious Area
12,060		89.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.9	62	0.0200	0.15		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.5	38	0.0300	1.29		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
0.6	130	0.0300	3.52		Shallow Concentrated Flow, Paved Kv= 20.3 fps
8.0	230	Total			

Summary for Subcatchment 1.12S: Area 1.12

Runoff = 4.10 cfs @ 12.10 hrs, Volume= 0.417 af, Depth= 6.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 340

Area (sf)	CN	Description
17,805	98	Paved parking, HSG C
3,410	98	Roofs, HSG C
13,975	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
35,190	88	Weighted Average
13,975		39.71% Pervious Area
21,215		60.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	75	0.0200	0.16		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
2.7	566	0.0300	3.52		Shallow Concentrated Flow, Paved Kv= 20.3 fps
10.7	641	Total			

Summary for Subcatchment 1.13S: Area 1.13

Runoff = 5.70 cfs @ 12.04 hrs, Volume= 0.465 af, Depth= 4.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
53,050	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
53,050	74	Weighted Average
53,050		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.1	50	0.2500	0.39		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
2.1	50	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.14S: Area 1.14

Runoff = 1.18 cfs @ 12.04 hrs, Volume= 0.096 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
11,800	71	Meadow, non-grazed, HSG C
11,800		100.00% Pervious Area

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

Summary for Subcatchment 1.15S: Area 1.15

Runoff = 3.60 cfs @ 12.04 hrs, Volume= 0.336 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
8,040	98	Paved parking, HSG C
15,790	98	Roofs, HSG C
0	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
23,830	98	Weighted Average
23,830		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,
5.0	0	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.16S: Area 1.16

Runoff = 2.41 cfs @ 12.04 hrs, Volume= 0.225 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
15,985	98	Roofs, HSG C
0	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
15,985	98	Weighted Average
15,985		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,
5.0	0	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.17S: Area 1.17

Runoff = 3.33 cfs @ 12.04 hrs, Volume= 0.271 af, Depth= 4.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
8,217	70	Woods, Good, HSG C
2,400	74	>75% Grass cover, Good, HSG C
19,624	77	Woods, Good, HSG D
30,241	75	Weighted Average
30,241		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	75	0.2500	0.43		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.3	30	0.1500	1.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.9	360	0.1000	6.67	37.22	Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=0.70' Z= 7.1 '/ Top.W=12.94' n= 0.040 Mountain streams
4.1	465	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.1S: Area-1.1

Runoff = 103.84 cfs @ 12.19 hrs, Volume= 12.192 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
1,500,780	70	Woods, Good, HSG C
11,590	77	Woods, Good, HSG D
30,280	74	>75% Grass cover, Good, HSG C
1,542,650	70	Weighted Average
1,542,650		100.00% Pervious Area

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Page 343

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.6	75	0.1200	0.15		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
7.8	1,425	0.3700	3.04		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.4	545	0.2000	24.25	698.34	Trap/Vee/Rect Channel Flow, Mountain Stream Bot.W=4.50' D=3.00' Z= 1.7 '/' Top.W=14.70' n= 0.040 Mountain streams
0.1	250	0.1600	30.49	2,126.93	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=11.00' D=4.50' Z= 1.0 '/' Top.W=20.00' n= 0.040 Mountain streams
16.9	2,295	Total			

Summary for Subcatchment 1.2S: Area 1.2

Runoff = 32.76 cfs @ 12.13 hrs, Volume= 3.452 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Roofs, HSG C
41,210	74	>75% Grass cover, Good, HSG C
395,569	70	Woods, Good, HSG C
0	77	Woods, Good, HSG D
436,779	70	Weighted Average
436,779		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	75	0.3300	0.22		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
6.5	1,175	0.3600	3.00		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.6	260	0.0500	7.40	38.86	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
12.8	1,510	Total			

Summary for Subcatchment 1.3S: Area-1.3

Runoff = 8.68 cfs @ 12.17 hrs, Volume= 0.983 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 344

Area (sf)	CN	Description
124,373	70	Woods, Good, HSG C
124,373		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0	90	0.0750	0.12		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
3.4	395	0.1500	1.94		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.1	265	0.1600	30.49	2,126.93	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=11.00' D=4.50' Z= 1.0 '/' Top.W=20.00' n= 0.040 Mountain streams
15.5	750	Total			

Summary for Subcatchment 1.4S: Area 1.4

Runoff = 29.32 cfs @ 12.11 hrs, Volume= 2.881 af, Depth= 4.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
33,624	74	>75% Grass cover, Good, HSG C
89,440	77	Woods, Good, HSG D
210,806	70	Woods, Good, HSG C
12,034	65	Brush, Good, HSG C
345,904	72	Weighted Average
345,904		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	75	0.2500	0.43		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
1.2	119	0.1100	1.66		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
2.4	100	0.0750	0.68		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
3.9	450	0.1500	1.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.5	617	0.0950	22.37	1,509.82	Trap/Vee/Rect Channel Flow, Mountain Stream Bot.W=5.00' D=5.00' Z= 1.7 '/' Top.W=22.00' n= 0.040 Mountain streams
10.9	1,361	Total			

Summary for Subcatchment 1.5S: Area 1.5

Runoff = 49.17 cfs @ 12.20 hrs, Volume= 5.929 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
702,889	70	Woods, Good, HSG C
39,952	74	>75% Grass cover, Good, HSG C
0	98	Roofs, HSG C
7,435	77	Woods, Good, HSG D
750,276	70	Weighted Average
750,276		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	75	0.1400	0.15		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
8.9	1,550	0.3400	2.92		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.6	120	0.2000	3.13		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.4	220	0.0600	9.68	116.11	Trap/Vee/Rect Channel Flow, roadside channel Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Mountain streams
18.0	1,965	Total			

Summary for Subcatchment 1.6S: Area 1.6

Runoff = 13.52 cfs @ 12.04 hrs, Volume= 1.101 af, Depth= 4.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
1,395	98	Paved parking, HSG C
0	98	Roofs, HSG C
65,620	74	>75% Grass cover, Good, HSG C
16,160	77	Woods, Good, HSG D
45,695	70	Woods, Good, HSG C
128,870	73	Weighted Average
127,475		98.92% Pervious Area
1,395		1.08% Impervious Area

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Page 346

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	75	0.1000	2.21		Shallow Concentrated Flow, lawn Short Grass Pasture Kv= 7.0 fps
2.0	250	0.1800	2.12		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
1.3	140	0.1300	1.80		Shallow Concentrated Flow, wetland Woodland Kv= 5.0 fps
3.9	465	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.7S: Area 1.7

Runoff = 5.93 cfs @ 12.04 hrs, Volume= 0.540 af, Depth= 7.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
36,835	98	Paved parking, HSG C
0	98	Roofs, HSG C
2,780	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
0	70	Woods, Good, HSG C
39,615	96	Weighted Average
2,780		7.02% Pervious Area
36,835		92.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0400	1.76		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
0.2	55	0.0400	4.06		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.8	1,090	0.1000	22.77	71.54	Pipe Channel, Road culvert 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013 Corrugated PE, smooth interior
1.9	1,245	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.8S: Area 1.8

Runoff = 5.83 cfs @ 12.04 hrs, Volume= 0.475 af, Depth= 4.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 347

Area (sf)	CN	Description
0	98	Paved parking, HSG C
5,915	70	Woods, Good, HSG C
44,225	74	>75% Grass cover, Good, HSG C
4,060	77	Woods, Good, HSG D
54,200	74	Weighted Average
54,200		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.1	60	0.3600	0.47		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
2.5	40	0.1100	0.27		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.3	40	0.1100	2.32		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
4.9	140	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 1.9S: Area 1.9

Runoff = 17.59 cfs @ 12.04 hrs, Volume= 1.434 af, Depth= 4.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
29,215	98	Paved parking, HSG C
0	98	Roofs, HSG C
50,280	74	>75% Grass cover, Good, HSG C
45,210	70	Woods, Good, HSG C
35,105	65	Brush, Good, HSG C
159,810	75	Weighted Average
130,595		81.72% Pervious Area
29,215		18.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	75	0.1500	1.94		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.4	80	0.2000	3.13		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.9	575	0.0200	5.08	20.33	Trap/Vee/Rect Channel Flow, roadside channel Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.030 Earth, grassed & winding
2.9	730	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.10S: Area 2.10

Runoff = 23.36 cfs @ 12.15 hrs, Volume= 2.517 af, Depth= 4.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
3,185	98	Paved parking, HSG C
98,190	74	>75% Grass cover, Good, HSG C
54,755	77	Woods, Good, HSG D
88,945	70	Woods, Good, HSG C
34,201	65	Brush, Good, HSG C
22,950	71	Meadow, non-grazed, HSG C
302,226	72	Weighted Average
299,041		98.95% Pervious Area
3,185		1.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	75	0.2500	0.19		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
7.2	650	0.0900	1.50		Shallow Concentrated Flow, wetland Woodland Kv= 5.0 fps
0.2	240	0.2000	19.45	233.42	Trap/Vee/Rect Channel Flow, Point 45 Bot.W=5.00' D=2.00' Z= 0.5 '/' Top.W=7.00' n= 0.040 Mountain streams
13.8	965	Total			

Summary for Subcatchment 2.1S: Area 2.1

Runoff = 17.93 cfs @ 12.17 hrs, Volume= 2.016 af, Depth= 4.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
22,900	74	>75% Grass cover, Good, HSG C
170,946	70	Woods, Good, HSG C
68,235	65	Brush, Good, HSG C
262,081	69	Weighted Average
262,081		100.00% Pervious Area

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Page 349

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	75	0.2200	0.19		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
7.7	1,325	0.3300	2.87		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.6	120	0.2000	3.13		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.1	65	0.0600	9.68	116.11	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
15.2	1,585	Total			

Summary for Subcatchment 2.2S: Area 2.2

Runoff = 9.64 cfs @ 12.04 hrs, Volume= 0.901 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
63,870	98	Paved parking, HSG C
63,870		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	10	0.0200	0.84		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
1.2	350	0.0600	4.97		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.9	1,550	0.0600	13.30	65.31	Pipe Channel, 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.020 Corrugated PE, corrugated interior
3.3	1,910	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.3S: Area 2.3

Runoff = 9.65 cfs @ 12.04 hrs, Volume= 0.786 af, Depth= 4.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
66,110	74	>75% Grass cover, Good, HSG C
25,880	70	Woods, Good, HSG C
91,990	73	Weighted Average
91,990		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	75	0.1800	0.37		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.7	133	0.4000	3.16		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
4.0	208	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.4S: Area 2.4

Runoff = 2.29 cfs @ 12.04 hrs, Volume= 0.214 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
15,150	98	Paved parking, HSG C
0	98	Roofs, HSG C
15,150	98	Weighted Average
15,150		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	10	0.0200	0.84		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
2.0	350	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.0	525	0.0200	8.67	61.31	Pipe Channel, 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.020 Corrugated PE, corrugated interior
3.2	885	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.5S: Area 2.5

Runoff = 1.21 cfs @ 12.04 hrs, Volume= 0.113 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
8,000	98	Paved parking, HSG C
0	98	Roofs, HSG C
8,000	98	Weighted Average
8,000		100.00% Impervious Area

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

Summary for Subcatchment 2.6S: Area 2.6

Runoff = 19.55 cfs @ 12.10 hrs, Volume= 1.865 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
76,450	74	>75% Grass cover, Good, HSG C
153,355	70	Woods, Good, HSG C
229,805	71	Weighted Average
229,805		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	75	0.3200	0.22		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
3.4	605	0.3500	2.96		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.6	120	0.2500	3.50		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.1	62	0.0470	8.56	102.77	Trap/Vee/Rect Channel Flow, roadside channel Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
9.9	862	Total			

Summary for Subcatchment 2.7S: Area 2.7

Runoff = 10.80 cfs @ 12.04 hrs, Volume= 0.880 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
52,563	74	>75% Grass cover, Good, HSG C
34,158	70	Woods, Good, HSG C
21,672	65	Brush, Good, HSG C
108,393	71	Weighted Average
108,393		100.00% Pervious Area

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Page 352

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	75	0.2200	0.41		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.3	50	0.2000	3.13		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.0	590	0.0600	9.68	116.11	Trap/Vee/Rect Channel Flow, roadside swale Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
4.4	715	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.8S: Area 2.8

Runoff = 2.65 cfs @ 12.04 hrs, Volume= 0.216 af, Depth= 4.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Roofs, HSG C
9,160	74	>75% Grass cover, Good, HSG C
6,748	70	Woods, Good, HSG C
12,192	65	Brush, Good, HSG C
28,100	69	Weighted Average
28,100		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.8	75	0.2800	0.45		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
2.0	290	0.2300	2.40		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
4.8	365	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2.9S: Area 2.9

Runoff = 12.21 cfs @ 12.09 hrs, Volume= 1.151 af, Depth= 4.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
71,878	74	>75% Grass cover, Good, HSG C
59,280	70	Woods, Good, HSG C
6,987	65	Brush, Good, HSG C
138,145	72	Weighted Average
138,145		100.00% Pervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 353

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.3	50	0.2000	0.36		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
5.1	50	0.2000	0.16		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.4	55	0.1800	2.12		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.6	525	0.0200	5.59	67.04	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
9.4	680	Total			

Summary for Subcatchment 2aS: Area 2A

Runoff = 5.15 cfs @ 12.06 hrs, Volume= 0.448 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
45,425	70	Woods, Good, HSG C
9,715	74	>75% Grass cover, Good, HSG C
55,140	71	Weighted Average
55,140		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	75	0.2000	0.18		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.7	110	0.3000	2.74		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
7.7	185	Total			

Summary for Subcatchment 2bS: Area 2b

Runoff = 18.47 cfs @ 12.07 hrs, Volume= 1.657 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
52,600	74	>75% Grass cover, Good, HSG C
151,520	70	Woods, Good, HSG C
204,120	71	Weighted Average
204,120		100.00% Pervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 354

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	20	0.2500	0.33		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
6.8	80	0.2500	0.20		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.6	60	0.1200	1.73		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
8.4	160	Total			

Summary for Subcatchment 3.1S: Area 3.1

Runoff = 10.20 cfs @ 12.04 hrs, Volume= 0.832 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
105,215	70	Woods, Good, HSG C
105,215		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	75	0.2500	0.43		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
0.9	125	0.2000	2.24		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.6	395	0.1100	11.15	83.65	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
4.4	595	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 4.1S: Area 4.1

Runoff = 46.97 cfs @ 12.13 hrs, Volume= 4.913 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Roofs, HSG C
89,715	74	>75% Grass cover, Good, HSG C
511,589	70	Woods, Good, HSG C
20,386	65	Brush, Good, HSG C
621,690	70	Weighted Average
621,690		100.00% Pervious Area

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Page 355

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	75	0.2000	0.27		Sheet Flow, ski trail Grass: Dense n= 0.240 P2= 3.00"
7.6	1,200	0.2800	2.65		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.3	115	0.0350	6.61	59.47	Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=1.50' Z= 2.0 '/' Top.W=9.00' n= 0.040 Earth, cobble bottom, clean sides
12.6	1,390	Total			

Summary for Subcatchment 4.2S: Area 4.2

Runoff = 4.86 cfs @ 12.04 hrs, Volume= 0.455 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
32,235	98	Paved parking, HSG C
32,235		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	40	0.0200	1.11		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
0.6	40	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 4.3S: Area 4.3

Runoff = 30.87 cfs @ 12.05 hrs, Volume= 2.565 af, Depth= 4.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
24,400	98	Paved parking, HSG C
0	98	Roofs, HSG C
159,890	74	>75% Grass cover, Good, HSG C
61,766	70	Woods, Good, HSG C
46,834	65	Brush, Good, HSG C
292,890	74	Weighted Average
268,490		91.67% Pervious Area
24,400		8.33% Impervious Area

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Page 356

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	75	0.2500	0.43		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
1.8	285	0.2800	2.65		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.5	135	0.0100	4.48	33.63	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.030 Earth, grassed & winding
1.4	565	0.0200	6.62	20.80	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
6.6	1,060	Total			

Summary for Subcatchment 4.4S: Area 4.4

Runoff = 7.54 cfs @ 12.04 hrs, Volume= 0.617 af, Depth= 4.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
7,500	98	Paved parking, HSG C
0	98	Roofs, HSG C
31,290	74	>75% Grass cover, Good, HSG C
5,074	70	Woods, Good, HSG C
28,376	65	Brush, Good, HSG C
72,240	73	Weighted Average
64,740		89.62% Pervious Area
7,500		10.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	75	0.1200	0.32		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
1.5	185	0.1800	2.12		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.7	120	0.1500	2.71		Shallow Concentrated Flow, grass Short Grass Pasture Kv= 7.0 fps
6.1	380	Total			

Summary for Subcatchment 4.5S: Area 4.5

Runoff = 4.99 cfs @ 12.04 hrs, Volume= 0.407 af, Depth= 4.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 357

Area (sf)	CN	Description
46,440	74	>75% Grass cover, Good, HSG C
46,440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	30	0.1250	0.27		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
1.9	30	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 4.6S: Area-4.6

Runoff = 15.85 cfs @ 12.04 hrs, Volume= 1.291 af, Depth= 4.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
87,875	70	Woods, Good, HSG C
67,135	74	>75% Grass cover, Good, HSG C
155,010	72	Weighted Average
155,010		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	900	0.1000	12.49	149.90	Trap/Vee/Rect Channel Flow, roadside swale Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
1.2	900	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 4.7S: Area-4.7

Runoff = 10.69 cfs @ 12.05 hrs, Volume= 0.894 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
88,830	70	Woods, Good, HSG C
21,320	74	>75% Grass cover, Good, HSG C
110,150	71	Weighted Average
110,150		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	75	0.3400	0.22		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.1	245	0.5200	3.61		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
6.8	320	Total			

Summary for Subcatchment 4.8: Area-4.8

Runoff = 0.12 cfs @ 12.12 hrs, Volume= 0.013 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
1,585	70	Woods, Good, HSG C
1,585		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.8	75	0.2200	0.11		Sheet Flow, Sheet flow: Woods Woods: Dense underbrush n= 0.800 P2= 3.00"
0.2	25	0.2200	2.35		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
12.0	100	Total			

Summary for Subcatchment 5.1S: Area-5.1

Runoff = 45.66 cfs @ 12.11 hrs, Volume= 4.489 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
475,378	72	Woods/grass comb., Good, HSG C
77,787	65	Brush, Good, HSG C
553,165	71	Weighted Average
553,165		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	75	0.3200	0.22		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.8	305	0.3200	2.83		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
1.6	910	0.0900	9.72	48.60	Channel Flow, Grassed/Roadside Swale Area= 5.0 sf Perim= 7.5' r= 0.67' n= 0.035 Earth, dense weeds
1.7	910	0.0800	9.09	18.18	Trap/Vee/Rect Channel Flow, DITCH Bot.W=1.00' D=1.00' Z= 1.0 '/' Top.W=3.00' n= 0.030 Earth, grassed & winding
10.9	2,200	Total			

Summary for Subcatchment 5.2S: Area-5.2

Runoff = 12.53 cfs @ 12.10 hrs, Volume= 1.196 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
55,210	74	>75% Grass cover, Good, HSG C
4,470	77	Woods, Good, HSG D
68,322	70	Woods, Good, HSG C
19,333	65	Brush, Good, HSG C
147,335	71	Weighted Average
147,335		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.1	50	0.2000	0.16		Sheet Flow, WOODS
					Woods: Light underbrush n= 0.400 P2= 3.00"
4.2	225	0.1300	0.90		Shallow Concentrated Flow, WETLAND FLOW
					Forest w/Heavy Litter Kv= 2.5 fps
0.6	420	0.1100	10.98	57.63	Trap/Vee/Rect Channel Flow, SWALE
					Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00'
					n= 0.040 Earth, cobble bottom, clean sides
9.9	695	Total			

Summary for Subcatchment 5.3S: Area 5.3

Runoff = 34.86 cfs @ 12.06 hrs, Volume= 3.021 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
23,664	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
358,601	70	Woods, Good, HSG C
382,265	70	Weighted Average
382,265		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.4	60	0.4000	0.22		Sheet Flow, WOODS Woods: Light underbrush n= 0.400 P2= 3.00"
1.5	278	0.4000	3.16		Shallow Concentrated Flow, WOODS Woodland Kv= 5.0 fps
1.7	1,190	0.1200	11.47	60.20	Trap/Vee/Rect Channel Flow, SWALE Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
7.6	1,528	Total			

Summary for Subcatchment 6.1S: Area 6.1

Runoff = 1.18 cfs @ 12.04 hrs, Volume= 0.106 af, Depth= 6.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
1,500	74	>75% Grass cover, Good, HSG C
8,000	94	Weighted Average
1,500		18.75% Pervious Area
6,500		81.25% Impervious Area

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

Summary for Subcatchment 6.2S: Area 6.2

Runoff = 1.18 cfs @ 12.04 hrs, Volume= 0.106 af, Depth= 6.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
1,500	74	>75% Grass cover, Good, HSG C
8,000	94	Weighted Average
1,500		18.75% Pervious Area
6,500		81.25% Impervious Area

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

Summary for Subcatchment 6.3S: Area 6.3

Runoff = 1.18 cfs @ 12.04 hrs, Volume= 0.106 af, Depth= 6.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
1,500	74	>75% Grass cover, Good, HSG C
8,000	94	Weighted Average
1,500		18.75% Pervious Area
6,500		81.25% Impervious Area

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

Summary for Subcatchment 6.4S: AREA 6.1

Runoff = 5.54 cfs @ 12.04 hrs, Volume= 0.456 af, Depth= 3.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Roofs, HSG C
0	74	>75% Grass cover, Good, HSG C
66,488	65	Brush, Good, HSG C
66,488	65	Weighted Average
66,488		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	75	0.1600	0.40		Sheet Flow, meadow Range n= 0.130 P2= 3.00"
1.9	305	0.1500	2.71		Shallow Concentrated Flow, meadow Short Grass Pasture Kv= 7.0 fps
5.0	380				Total, Increased to minimum Tc = 6.0 min

Summary for Subcatchment 7.1S: Area-7

Runoff = 8.80 cfs @ 12.04 hrs, Volume= 0.724 af, Depth= 3.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 362

Area (sf)	CN	Description
105,675	65	Brush, Good, HSG C
105,675		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	75	0.1800	0.26		Sheet Flow, Sheet flow: Meadow Grass: Dense n= 0.240 P2= 3.00"
0.4	75	0.2000	3.13		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
5.3	150	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.10S: Area 8.10

Runoff = 22.43 cfs @ 12.05 hrs, Volume= 1.857 af, Depth= 4.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
17,810	98	Paved parking, HSG C
0	98	Roofs, HSG C
106,562	74	>75% Grass cover, Good, HSG C
87,646	70	Woods, Good, HSG C
212,018	74	Weighted Average
194,208		91.60% Pervious Area
17,810		8.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	75	0.1200	0.32		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
1.8	275	0.2500	2.50		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.8	412	0.0600	8.11	42.57	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
6.5	762	Total			

Summary for Subcatchment 8.11S: Area-8.11

Runoff = 11.77 cfs @ 12.04 hrs, Volume= 0.959 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 363

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
48,233	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
28,882	70	Woods, Good, HSG C
44,285	65	Brush, Good, HSG C
121,400	70	Weighted Average
121,400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	75	0.2000	0.39		Sheet Flow, field Grass: Short n= 0.150 P2= 3.00"
2.3	235	0.1200	1.73		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	275	0.1200	11.65	87.37	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 ' /' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
5.9	585	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.12S: Area 8.12

Runoff = 3.85 cfs @ 12.04 hrs, Volume= 0.332 af, Depth= 6.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
17,800	98	Paved parking, HSG C
0	98	Roofs, HSG C
9,216	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
27,016	90	Weighted Average
9,216		34.11% Pervious Area
17,800		65.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0200	0.97		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.6	265	0.1300	7.32		Shallow Concentrated Flow, road/gutter Paved Kv= 20.3 fps
0.7	580	0.0800	13.24	41.59	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
1.6	865	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.13S: Area 8.13

Runoff = 3.75 cfs @ 12.04 hrs, Volume= 0.323 af, Depth= 6.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
17,600	98	Paved parking, HSG C
0	98	Roofs, HSG C
8,692	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
26,292	90	Weighted Average
8,692		33.06% Pervious Area
17,600		66.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0200	0.97		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.8	275	0.0800	5.74		Shallow Concentrated Flow, road/gutter Paved Kv= 20.3 fps
0.6	500	0.0800	13.24	41.59	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
1.7	795	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.15S: Area 8.15

Runoff = 11.73 cfs @ 12.04 hrs, Volume= 0.968 af, Depth= 5.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
32,140	98	Paved parking, HSG C
0	98	Roofs, HSG C
39,800	74	>75% Grass cover, Good, HSG C
22,178	70	Woods, Good, HSG C
94,118	81	Weighted Average
61,978		65.85% Pervious Area
32,140		34.15% Impervious Area

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Page 365

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0200	0.97		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.6	270	0.1200	7.03		Shallow Concentrated Flow, road/gutter Paved Kv= 20.3 fps
1.6	1,307	0.0800	13.24	41.59	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
2.5	1,597	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.16S: Area 8.16

Runoff = 2.52 cfs @ 12.04 hrs, Volume= 0.207 af, Depth= 5.26"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
6,200	98	Paved parking, HSG C
0	98	Roofs, HSG C
8,876	74	>75% Grass cover, Good, HSG C
0	79	Woods/grass comb., Good, HSG D
5,500	70	Woods, Good, HSG C
20,576	80	Weighted Average
14,376		69.87% Pervious Area
6,200		30.13% Impervious Area

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

Summary for Subcatchment 8.17S: Area 8.17

Runoff = 12.77 cfs @ 12.04 hrs, Volume= 1.054 af, Depth= 5.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
33,680	98	Paved parking, HSG C
6,500	98	Roofs, HSG C
27,455	65	Brush, Good, HSG C
34,828	74	>75% Grass cover, Good, HSG C
102,463	81	Weighted Average
62,283		60.79% Pervious Area
40,180		39.21% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 366

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0200	0.97		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.6	250	0.1200	7.03		Shallow Concentrated Flow, road/curb Paved Kv= 20.3 fps
0.9	610	0.0800	10.93	19.31	Pipe Channel, pipe system 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.020 Corrugated PE, corrugated interior
0.7	450	0.1090	11.10	83.27	Trap/Vee/Rect Channel Flow, Roadside swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
2.5	1,330	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.1S: Area-8.1

Runoff = 17.98 cfs @ 12.08 hrs, Volume= 1.689 af, Depth= 3.91"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
18,421	74	>75% Grass cover, Good, HSG C
6,750	77	Woods, Good, HSG D
76,355	70	Woods, Good, HSG C
124,249	65	Brush, Good, HSG C
225,775	68	Weighted Average
225,775		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	75	0.2000	0.27		Sheet Flow, field Grass: Dense n= 0.240 P2= 3.00"
1.6	235	0.1200	2.42		Shallow Concentrated Flow, wetland Short Grass Pasture Kv= 7.0 fps
2.8	807	0.0800	4.76	35.67	Trap/Vee/Rect Channel Flow, STREAM Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.080 Earth, long dense weeds
9.1	1,117	Total			

Summary for Subcatchment 8.2S: Area 8.2

Runoff = 9.19 cfs @ 12.07 hrs, Volume= 0.836 af, Depth= 4.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 367

Area (sf)	CN	Description
74,864	70	Woods, Good, HSG C
15,936	65	Brush, Good, HSG C
9,600	98	Roofs, HSG C
100,400	72	Weighted Average
90,800		90.44% Pervious Area
9,600		9.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.6	40	0.3000	0.41		Sheet Flow, GRASS Grass: Short n= 0.150 P2= 3.00"
5.0	60	0.3000	0.20		Sheet Flow, WOODS Woods: Light underbrush n= 0.400 P2= 3.00"
2.1	350	0.3000	2.74		Shallow Concentrated Flow, WOODS Woodland Kv= 5.0 fps
8.7	450	Total			

Summary for Subcatchment 8.3S: Area 8.3

Runoff = 5.74 cfs @ 12.04 hrs, Volume= 0.469 af, Depth= 4.92"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
8,440	98	Paved parking, HSG C
0	98	Roofs, HSG C
32,950	74	>75% Grass cover, Good, HSG C
8,500	70	Woods, Good, HSG C
49,890	77	Weighted Average
41,450		83.08% Pervious Area
8,440		16.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	415	0.0300	4.69	14.06	Trap/Vee/Rect Channel Flow, SWALE Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.040 Earth, cobble bottom, clean sides
1.5	415	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.4S: Area 8.4

Runoff = 19.47 cfs @ 12.08 hrs, Volume= 1.823 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 368

Area (sf)	CN	Description
7,416	98	Paved parking, HSG C
0	98	Roofs, HSG C
25,680	74	>75% Grass cover, Good, HSG C
191,475	70	Woods, Good, HSG C
224,571	71	Weighted Average
217,155		96.70% Pervious Area
7,416		3.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	75	0.3000	0.21		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
2.5	475	0.4000	3.16		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.6	340	0.0800	9.36	49.15	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
9.1	890	Total			

Summary for Subcatchment 8.5S: Area-8.5

Runoff = 33.38 cfs @ 12.39 hrs, Volume= 5.177 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
21,540	74	>75% Grass cover, Good, HSG C
7,015	77	Woods, Good, HSG D
610,710	70	Woods, Good, HSG C
15,820	65	Brush, Good, HSG C
655,085	70	Weighted Average
655,085		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	90	0.0800	0.13		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
0.9	127	0.2200	2.35		Shallow Concentrated Flow, WOODS Woodland Kv= 5.0 fps
17.8	1,036	0.1500	0.97		Shallow Concentrated Flow, wetland flow Forest w/Heavy Litter Kv= 2.5 fps
0.8	515	0.1700	11.11	44.45	Trap/Vee/Rect Channel Flow, STREAM Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Mountain streams
31.2	1,768	Total			

Summary for Subcatchment 8.6S: Area 8.6

Runoff = 11.68 cfs @ 12.11 hrs, Volume= 1.164 af, Depth= 5.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
21,368	98	Paved parking, HSG C
12,400	98	Roofs, HSG C
38,886	74	>75% Grass cover, Good, HSG C
45,612	70	Woods, Good, HSG C
118,266	79	Weighted Average
84,498		71.45% Pervious Area
33,768		28.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.6	75	0.1200	0.15		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.2	219	0.4000	3.16		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.8	193	0.0700	3.97		Shallow Concentrated Flow, grass Grassed Waterway Kv= 15.0 fps
0.7	250	0.0200	6.34	47.56	Trap/Vee/Rect Channel Flow, dry swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.030 Earth, grassed & winding
11.3	737	Total			

Summary for Subcatchment 8.7S: Area 8.7

Runoff = 19.36 cfs @ 12.07 hrs, Volume= 1.754 af, Depth= 5.26"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
46,184	98	Paved parking, HSG C
10,440	98	Roofs, HSG C
42,927	74	>75% Grass cover, Good, HSG C
74,697	70	Woods, Good, HSG C
174,248	80	Weighted Average
117,624		67.50% Pervious Area
56,624		32.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	75	0.3100	0.21		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.0	165	0.3100	2.78		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.4	70	0.2000	3.13		Shallow Concentrated Flow, grass Short Grass Pasture Kv= 7.0 fps
0.2	50	0.0400	4.06		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.2	92	0.0200	6.34	47.56	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.030 Earth, grassed & winding
0.1	50	0.0400	5.90	4.63	Pipe Channel, 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
0.7	408	0.0800	9.36	49.15	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
8.5	910	Total			

Summary for Subcatchment 8.8S: Area 8.8

Runoff = 6.71 cfs @ 12.04 hrs, Volume= 0.546 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Roofs, HSG C
19,048	74	>75% Grass cover, Good, HSG C
48,270	70	Woods, Good, HSG C
67,318	71	Weighted Average
67,318		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	524	0.0850	7.89	23.66	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.040 Earth, cobble bottom, clean sides
1.1	524	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 8.9S: Area 8.9

Runoff = 4.53 cfs @ 12.04 hrs, Volume= 0.394 af, Depth= 6.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 371

Area (sf)	CN	Description
22,800	98	Paved parking, HSG C
0	98	Roofs, HSG C
8,665	74	>75% Grass cover, Good, HSG C
0	70	Woods, Good, HSG C
31,465	91	Weighted Average
8,665		27.54% Pervious Area
22,800		72.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	20	0.0800	1.68		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.6	210	0.0750	5.56		Shallow Concentrated Flow, road Paved Kv= 20.3 fps
1.2	895	0.0700	12.38	38.90	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
2.0	1,125	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 9.10S: Area 9.10

Runoff = 33.27 cfs @ 12.04 hrs, Volume= 2.710 af, Depth= 4.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
27,100	98	Unconnected roofs, HSG C
132,286	74	>75% Grass cover, Good, HSG C
145,503	70	Woods, Good, HSG C
12,332	65	Brush, Good, HSG C
317,221	74	Weighted Average, UI Adjusted CN = 73
290,121		91.46% Pervious Area
27,100		8.54% Impervious Area
27,100		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	1,240	0.1000	12.10	96.77	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=2.00' Z= 1.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
1.7	1,240	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 9.11S: Area 9.11S

Runoff = 9.85 cfs @ 12.13 hrs, Volume= 1.030 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
56,160	74	>75% Grass cover, Good, HSG C
2,590	77	Woods, Good, HSG D
54,069	70	Woods, Good, HSG C
14,081	65	Brush, Good, HSG C
126,900	71	Weighted Average
126,900		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	75	0.2000	0.18		Sheet Flow, WOODS Woods: Light underbrush n= 0.400 P2= 3.00"
0.3	45	0.2500	2.50		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.9	40	0.0800	0.71		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
0.9	115	0.2000	2.24		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
3.5	700	0.0100	3.36	25.22	Trap/Vee/Rect Channel Flow, swale w/ checkdams Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
12.6	975	Total			

Summary for Subcatchment 9.12S: Area 9.12S

Runoff = 4.33 cfs @ 12.04 hrs, Volume= 0.390 af, Depth= 7.01"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
24,900	98	Paved parking, HSG C
4,160	74	>75% Grass cover, Good, HSG C
29,060	95	Weighted Average
4,160		14.32% Pervious Area
24,900		85.68% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 373

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	75	0.0250	1.37		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
1.7	285	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	565	0.0200	6.62	20.80	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
4.0	925	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 9.13S: Area 9.13

Runoff = 7.47 cfs @ 12.04 hrs, Volume= 0.698 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
45,985	98	Paved parking, HSG C
3,500	98	Roofs, HSG C
0	70	Woods, Good, HSG C
49,485	98	Weighted Average
49,485		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	90	0.0500	1.88		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.00"
1.0	390	0.0950	6.26		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	1,215	0.1000	14.80	46.50	Pipe Channel, 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
3.2	1,695	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 9.14S: Area 9.14

Runoff = 21.35 cfs @ 12.07 hrs, Volume= 1.909 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
225,235	70	Woods, Good, HSG C
16,365	65	Brush, Good, HSG C
241,600	70	Weighted Average
241,600		100.00% Pervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 374

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	75	0.3500	0.22		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
2.1	400	0.4000	3.16		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.6	415	0.0800	10.82	86.55	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=2.00' Z= 1.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
8.3	890	Total			

Summary for Subcatchment 9.1S: Area 9.1

Runoff = 13.42 cfs @ 12.06 hrs, Volume= 1.150 af, Depth= 3.91"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,600	98	Paved parking, HSG C
0	98	Roofs, HSG C
10,062	74	>75% Grass cover, Good, HSG C
15,716	70	Woods, Good, HSG C
6,220	77	Woods, Good, HSG D
117,192	65	Brush, Good, HSG C
153,790	68	Weighted Average
149,190		97.01% Pervious Area
4,600		2.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	75	0.1800	0.37		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
2.2	515	0.3000	3.83		Shallow Concentrated Flow, field Short Grass Pasture Kv= 7.0 fps
1.5	130	0.0800	1.41		Shallow Concentrated Flow, wetland Woodland Kv= 5.0 fps
0.3	40	0.0200	2.64	26.37	Trap/Vee/Rect Channel Flow, ditch Bot.W=1.00' D=2.00' Z= 2.0 '/' Top.W=9.00' n= 0.080 Earth, long dense weeds
7.3	760	Total			

Summary for Subcatchment 9.5S: Area 9.5

Runoff = 4.65 cfs @ 12.07 hrs, Volume= 0.424 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 375

Area (sf)	CN	Description
6,300	98	Paved parking, HSG C
0	98	Roofs, HSG C
5,500	74	>75% Grass cover, Good, HSG C
6,424	70	Woods, Good, HSG C
34,019	65	Brush, Good, HSG C
52,243	71	Weighted Average
45,943		87.94% Pervious Area
6,300		12.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	75	0.2000	0.18		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.3	175	0.2000	2.24		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.4	162	0.2000	6.71		Shallow Concentrated Flow, grass Grassed Waterway Kv= 15.0 fps
8.7	412	Total			

Summary for Subcatchment 9.6S: Area 9.6

Runoff = 18.14 cfs @ 12.04 hrs, Volume= 1.480 af, Depth= 4.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
17,820	98	Paved parking, HSG C
0	98	Roofs, HSG C
70,795	74	>75% Grass cover, Good, HSG C
69,520	70	Woods, Good, HSG C
6,720	65	Brush, Good, HSG C
164,855	75	Weighted Average
147,035		89.19% Pervious Area
17,820		10.81% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	543	0.1000	12.49	149.90	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
0.7	543	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 9.9S: Area 9.9

Runoff = 9.79 cfs @ 12.04 hrs, Volume= 0.797 af, Depth= 4.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
45,220	74	>75% Grass cover, Good, HSG C
50,524	70	Woods, Good, HSG C
95,744	72	Weighted Average
95,744		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	75	0.2200	0.41		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
1.0	225	0.3000	3.83		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
4.1	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.10S: Area-11.10

Runoff = 3.70 cfs @ 12.04 hrs, Volume= 0.319 af, Depth= 6.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
7,150	98	Paved parking, HSG C
10,000	98	Roofs, HSG C
8,850	74	>75% Grass cover, Good, HSG C
26,000	90	Weighted Average
8,850		34.04% Pervious Area
17,150		65.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	60	0.0500	1.73		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.4	160	0.0300	6.22	24.90	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.030 Earth, grassed & winding
1.0	220	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.11S: Area-11.11

Runoff = 8.28 cfs @ 12.04 hrs, Volume= 0.705 af, Depth= 6.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
17,000	98	Paved parking, HSG C
18,866	98	Roofs, HSG C
23,654	74	>75% Grass cover, Good, HSG C
59,520	88	Weighted Average
23,654		39.74% Pervious Area
35,866		60.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	45	0.3000	0.41		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
0.5	32	0.0200	1.06		Sheet Flow, parking lot Smooth surfaces n= 0.011 P2= 3.00"
0.4	100	0.0350	3.80		Shallow Concentrated Flow, parking lot Paved Kv= 20.3 fps
0.8	320	0.0500	6.59	5.18	Pipe Channel, closed pipe system 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
3.5	497	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.12S: Area-11.12

Runoff = 5.30 cfs @ 12.04 hrs, Volume= 0.432 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	74	>75% Grass cover, Good, HSG C
54,672	70	Woods, Good, HSG C
54,672	70	Weighted Average
54,672		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	60	0.5000	0.25		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
1.6	224	0.2200	2.35		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
5.7	284	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.13S: Area-11.13

Runoff = 1.53 cfs @ 12.04 hrs, Volume= 0.143 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	74	>75% Grass cover, Good, HSG C
10,160	98	Paved parking, HSG C
10,160	98	Weighted Average
10,160		100.00% Impervious Area

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

Summary for Subcatchment 11.14S: Area-11.14

Runoff = 15.74 cfs @ 12.12 hrs, Volume= 1.584 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
8,100	74	>75% Grass cover, Good, HSG C
34,123	77	Woods, Good, HSG D
136,566	70	Woods, Good, HSG C
16,374	65	Brush, Good, HSG C
195,163	71	Weighted Average
195,163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.4	60	0.4000	0.22		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
0.9	160	0.3300	2.87		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
6.3	300	0.1000	0.79		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
11.6	520	Total			

Summary for Subcatchment 11.15S: Area-11.15

Runoff = 3.73 cfs @ 12.14 hrs, Volume= 0.399 af, Depth= 4.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 379

Area (sf)	CN	Description
12,000	74	>75% Grass cover, Good, HSG C
6,478	79	Woods/grass comb., Good, HSG D
27,065	72	Woods/grass comb., Good, HSG C
45,543	74	Weighted Average
45,543		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	75	0.2700	0.20		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.6	116	0.2500	3.50		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
3.7	175	0.1000	0.79		Shallow Concentrated Flow, WETLAND Forest w/Heavy Litter Kv= 2.5 fps
3.0	470	0.2800	2.65		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
13.5	836	Total			

Summary for Subcatchment 11.16S: Area-11.16

Runoff = 3.97 cfs @ 12.04 hrs, Volume= 0.338 af, Depth= 6.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
11,785	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
0	70	Woods, Good, HSG C
16,750	98	Paved parking, HSG C
28,535	88	Weighted Average
11,785		41.30% Pervious Area
16,750		58.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	25	0.0200	1.01		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
0.7	225	0.0800	5.74		Shallow Concentrated Flow, curb/gutter Paved Kv= 20.3 fps
0.9	440	0.0800	8.34	6.55	Pipe Channel, closed pipe system 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
2.0	690	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.17S: Area-11.17

Runoff = 2.33 cfs @ 12.04 hrs, Volume= 0.206 af, Depth= 6.78"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
8,930	98	Paved parking, HSG C
3,500	98	Roofs, HSG C
3,471	74	>75% Grass cover, Good, HSG C
0	77	Woods, Good, HSG D
0	70	Woods, Good, HSG C
15,901	93	Weighted Average
3,471		21.83% Pervious Area
12,430		78.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0250	1.06		Sheet Flow, gravel drive Smooth surfaces n= 0.011 P2= 3.00"
3.3	500	0.0250	2.55		Shallow Concentrated Flow, gravel drive Unpaved Kv= 16.1 fps
3.6	520	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.18S: Area-11.18

Runoff = 32.15 cfs @ 12.21 hrs, Volume= 3.922 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
21,949	74	>75% Grass cover, Good, HSG C
461,725	70	Woods, Good, HSG C
12,570	65	Brush, Good, HSG C
496,244	70	Weighted Average
496,244		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.3	75	0.1000	0.14		Sheet Flow, grass Woods: Light underbrush n= 0.400 P2= 3.00"
8.7	1,425	0.3000	2.74		Shallow Concentrated Flow, WOODS Woodland Kv= 5.0 fps
0.5	250	0.0650	8.57	64.30	Trap/Vee/Rect Channel Flow, SWALE Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
18.5	1,750	Total			

Summary for Subcatchment 11.19S: Area-11.19

Runoff = 22.20 cfs @ 12.25 hrs, Volume= 2.891 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
28,500	74	>75% Grass cover, Good, HSG C
213,698	70	Woods, Good, HSG C
10,062	65	Brush, Good, HSG C
113,495	71	Meadow, non-grazed, HSG C
365,755	70	Weighted Average
365,755		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	75	0.1800	0.17		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
1.6	225	0.2200	2.35		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
6.1	1,082	0.1800	2.97		Shallow Concentrated Flow, SKI TRAIL Short Grass Pasture Kv= 7.0 fps
6.4	1,054	0.3000	2.74		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.2	150	0.1500	10.44	41.76	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
21.6	2,586	Total			

Summary for Subcatchment 11.20S: Area-11.20

Runoff = 2.66 cfs @ 12.04 hrs, Volume= 0.217 af, Depth= 4.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,400	74	>75% Grass cover, Good, HSG C
20,578	70	Woods, Good, HSG C
5,272	65	Brush, Good, HSG C
0	98	Paved parking, HSG C
28,250	69	Weighted Average
28,250		100.00% Pervious Area

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Page 382

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	45	0.3000	0.41		Sheet Flow, grass Grass: Short n= 0.150 P2= 3.00"
0.5	32	0.0200	1.06		Sheet Flow, parking lot Smooth surfaces n= 0.011 P2= 3.00"
0.4	100	0.0350	3.80		Shallow Concentrated Flow, parking lot Paved Kv= 20.3 fps
0.8	320	0.0500	6.59	5.18	Pipe Channel, closed pipe system 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
3.5	497	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.21S: Area-11.21

Runoff = 18.08 cfs @ 12.07 hrs, Volume= 1.638 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
186,893	70	Woods, Good, HSG C
3,300	74	>75% Grass cover, Good, HSG C
17,051	71	Meadow, non-grazed, HSG C
207,244	70	Weighted Average
207,244		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	60	0.4200	0.35		Sheet Flow, ski trail Grass: Dense n= 0.240 P2= 3.00"
1.4	350	0.3600	4.20		Shallow Concentrated Flow, ski trail Short Grass Pasture Kv= 7.0 fps
4.2	785	0.3800	3.08		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.1	56	0.0400	6.73	50.44	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Mountain streams
8.6	1,251	Total			

Summary for Subcatchment 11.23S: Area 11.23

Runoff = 5.45 cfs @ 12.04 hrs, Volume= 0.444 af, Depth= 4.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 383

Area (sf)	CN	Description
6,960	98	Paved parking, HSG C
0	98	Roofs, HSG C
* 18,113	74	>75% Grass cover, Good, HSG C
24,427	70	Woods, Good, HSG C
49,500	75	Weighted Average
42,540		85.94% Pervious Area
6,960		14.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	25	0.0200	1.01		Sheet Flow, driveway Smooth surfaces n= 0.011 P2= 3.00"
0.9	465	0.0400	8.83	46.34	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.030 Earth, grassed & winding
1.3	490	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.24S: Area 11.24

Runoff = 3.00 cfs @ 12.04 hrs, Volume= 0.246 af, Depth= 5.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
5,620	98	Paved parking, HSG C
0	98	Roofs, HSG C
16,892	74	>75% Grass cover, Good, HSG C
2,522	70	Woods, Good, HSG C
25,034	79	Weighted Average
19,414		77.55% Pervious Area
5,620		22.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	30	0.0400	1.38		Sheet Flow, DRIVEWAY Smooth surfaces n= 0.011 P2= 3.00"
0.1	15	0.0500	3.35		Shallow Concentrated Flow, GRASS Grassed Waterway Kv= 15.0 fps
0.5	270	0.0900	9.93	52.13	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 1.0 '/' Top.W=5.00' n= 0.040 Earth, cobble bottom, clean sides
0.9	160	0.0100	2.95	2.32	Pipe Channel, culvert 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
1.9	475	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.25S: Area 11.25

Runoff = 6.18 cfs @ 12.07 hrs, Volume= 0.559 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
3,360	74	>75% Grass cover, Good, HSG C
57,735	70	Woods, Good, HSG C
7,755	77	Woods, Good, HSG D
68,850	71	Weighted Average
68,850		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.6	60	0.3600	0.22		Sheet Flow, GRASS Woods: Light underbrush n= 0.400 P2= 3.00"
2.6	40	0.1000	0.26		Sheet Flow, wetland Grass: Short n= 0.150 P2= 3.00"
0.3	140	0.2800	7.94		Shallow Concentrated Flow, wetland Grassed Waterway Kv= 15.0 fps
1.1	215	0.0100	3.36	25.22	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
8.6	455	Total			

Summary for Subcatchment 11.26S: Area-11.26

Runoff = 5.49 cfs @ 12.04 hrs, Volume= 0.474 af, Depth= 6.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
26,015	98	Paved parking, HSG C
0	98	Roofs, HSG C
12,531	74	>75% Grass cover, Good, HSG C
38,546	90	Weighted Average
12,531		32.51% Pervious Area
26,015		67.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.16		Sheet Flow, ROAD Smooth surfaces n= 0.011 P2= 3.00"
2.1	440	0.0300	3.52		Shallow Concentrated Flow, CURB/GUTTER Paved Kv= 20.3 fps
2.8	490	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.27S: Area-11.27

Runoff = 9.54 cfs @ 12.04 hrs, Volume= 0.828 af, Depth= 6.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
12,146	98	Paved parking, HSG C
34,850	98	Roofs, HSG C
9,400	71	Meadow, non-grazed, HSG C
9,824	74	>75% Grass cover, Good, HSG C
66,220	91	Weighted Average
19,224		29.03% Pervious Area
46,996		70.97% Impervious Area

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

Summary for Subcatchment 11.28S: Area-11.28

Runoff = 0.91 cfs @ 12.04 hrs, Volume= 0.085 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	74	>75% Grass cover, Good, HSG C
6,000	98	Paved parking, HSG C
6,000	98	Weighted Average
6,000		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	20	0.0200	0.97		Sheet Flow, paved Smooth surfaces n= 0.011 P2= 3.00"
0.3	20	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.29S: Area 11.29

Runoff = 2.10 cfs @ 12.04 hrs, Volume= 0.171 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
* 4,200	74	>75% Grass cover, Good, HSG C
13,044	70	Woods, Good, HSG C
3,863	71	Meadow, non-grazed, HSG C
21,107	71	Weighted Average
21,107		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	50	0.4000	0.48		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
3.8	50	0.4000	0.22		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.2	95	0.0400	6.73	50.44	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
5.8	195	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.2S: Area-11.2

Runoff = 68.17 cfs @ 12.37 hrs, Volume= 10.264 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,200	74	>75% Grass cover, Good, HSG C
953,056	70	Woods, Good, HSG C
19,327	77	Woods, Good, HSG D
121,511	65	Brush, Good, HSG C
202,670	71	Meadow, non-grazed, HSG C
1,298,764	70	Weighted Average
1,298,764		100.00% Pervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 387

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	75	0.0933	0.08		Sheet Flow, Sheet flow: Woods Woods: Dense underbrush n= 0.800 P2= 3.00"
4.4	575	0.0960	2.17		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
5.3	885	0.3110	2.79		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
2.2	355	0.2817	2.65		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
1.1	830	0.2200	12.64	50.57	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Mountain streams
29.6	2,720	Total			

Summary for Subcatchment 11.32S: Area-11.5

Runoff = 14.20 cfs @ 12.24 hrs, Volume= 1.816 af, Depth= 4.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
211,704	70	Woods, Good, HSG C
24,402	65	Brush, Good, HSG C
236,106	69	Weighted Average
236,106		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	75	0.1800	0.26		Sheet Flow, Sheet flow: Ski Trail Grass: Dense n= 0.240 P2= 3.00"
2.4	425	0.1800	2.97		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
13.2	720	0.0330	0.91		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.1	83	0.1800	14.27	107.01	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
20.6	1,303	Total			

Summary for Subcatchment 11.33S: Area-11.33

Runoff = 7.14 cfs @ 12.27 hrs, Volume= 0.959 af, Depth= 4.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 388

Area (sf)	CN	Description
8,845	74	>75% Grass cover, Good, HSG C
24,220	77	Woods, Good, HSG D
82,025	70	Woods, Good, HSG C
0	98	Paved parking, HSG C
115,090	72	Weighted Average
115,090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	50	0.1500	0.15		Sheet Flow, woods Woods: Light underbrush n= 0.400 P2= 3.00"
11.7	50	0.1000	0.07		Sheet Flow, wetland Woods: Dense underbrush n= 0.800 P2= 3.00"
3.0	140	0.1000	0.79		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
2.7	430	0.2800	2.65		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
23.1	670	Total			

Summary for Subcatchment 11.34S: Area-11.34

Runoff = 4.31 cfs @ 12.15 hrs, Volume= 0.467 af, Depth= 4.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
6,615	74	>75% Grass cover, Good, HSG C
14,006	77	Woods, Good, HSG D
35,496	70	Woods, Good, HSG C
0	98	Paved parking, HSG C
56,117	72	Weighted Average
56,117		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	75	0.2000	0.39		Sheet Flow, woods Grass: Short n= 0.150 P2= 3.00"
7.3	25	0.0800	0.06		Sheet Flow, wetland Woods: Dense underbrush n= 0.800 P2= 3.00"
2.9	150	0.1200	0.87		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
0.7	325	0.0800	7.62	30.50	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
14.1	575	Total			

Summary for Subcatchment 11.35S: Area-11.35

Runoff = 2.62 cfs @ 12.04 hrs, Volume= 0.214 af, Depth= 4.80"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
19,566	77	Woods, Good, HSG D
3,700	70	Woods, Good, HSG C
0	98	Paved parking, HSG C
23,266	76	Weighted Average
23,266		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	370	0.1500	7.29	87.45	Trap/Vee/Rect Channel Flow, swale Bot.W=1.00' D=2.00' Z= 2.5 '/ Top.W=11.00' n= 0.080 Earth, long dense weeds

0.8 370 Total, Increased to minimum Tc = 6.0 min

Summary for Subcatchment 11.36S: Area-11.36

Runoff = 6.43 cfs @ 12.06 hrs, Volume= 0.562 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
5,035	77	Woods, Good, HSG D
52,307	70	Woods, Good, HSG C
11,888	71	Meadow, non-grazed, HSG C
69,230	71	Weighted Average
69,230		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	75	0.3100	0.21		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
1.6	255	0.2800	2.65		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.3	260	0.1500	15.88	575.72	Trap/Vee/Rect Channel Flow, swale Bot.W=7.50' D=2.50' Z= 2.8 '/ Top.W=21.50' n= 0.050 Mountain streams w/large boulders

7.8 590 Total

Summary for Subcatchment 11.38S: Area-11.38

Runoff = 1.57 cfs @ 12.04 hrs, Volume= 0.128 af, Depth= 4.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,275	74	>75% Grass cover, Good, HSG C
8,026	77	Woods, Good, HSG D
3,949	70	Woods, Good, HSG C
0	98	Paved parking, HSG C
14,250	75	Weighted Average
14,250		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	185	0.2500	9.37	122.96	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 4.5 '/' Top.W=15.50' n= 0.070 Sluggish weedy reaches w/pools
0.3	185	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.39S: Area-11.39

Runoff = 2.09 cfs @ 12.05 hrs, Volume= 0.173 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
1,950	74	>75% Grass cover, Good, HSG C
19,400	71	Meadow, non-grazed, HSG C
21,350	71	Weighted Average
21,350		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	75	0.1800	0.26		Sheet Flow, ski trail Grass: Dense n= 0.240 P2= 3.00"
1.1	225	0.2500	3.50		Shallow Concentrated Flow, ski trail Short Grass Pasture Kv= 7.0 fps
0.5	135	0.0200	4.76	35.67	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
6.5	435	Total			

Summary for Subcatchment 11.3S: Area-11.3

Runoff = 161.15 cfs @ 12.36 hrs, Volume= 24.073 af, Depth= 4.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,331,661	70	Woods, Good, HSG C
31,516	74	>75% Grass cover, Good, HSG C
257,243	98	Paved parking & roofs
73,710	77	Woods, Good, HSG D
123,467	71	Meadow, non-grazed, HSG C
2,817,597	73	Weighted Average
2,560,354		90.87% Pervious Area
257,243		9.13% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	75	0.1133	0.21		Sheet Flow, Sheet flow: Meadow Grass: Dense n= 0.240 P2= 3.00"
4.7	1,038	0.2800	3.70		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
8.9	1,412	0.2800	2.65		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.8	127	0.1500	2.71		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
2.8	450	0.2800	2.65		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
3.0	395	0.0250	2.17	23.92	Trap/Vee/Rect Channel Flow, stream Bot.W=1.00' D=1.00' Z= 10.0 '/' Top.W=21.00' n= 0.070 Sluggish weedy reaches w/pools
0.8	300	0.0250	5.95	71.40	Trap/Vee/Rect Channel Flow, stream Bot.W=1.00' D=2.00' Z= 2.5 '/' Top.W=11.00' n= 0.040 Winding stream, pools & shoals
1.2	720	0.0250	9.97	996.95	Trap/Vee/Rect Channel Flow, stream Bot.W=10.00' D=5.00' Z= 2.0 '/' Top.W=30.00' n= 0.050 Mountain streams w/large boulders
0.1	45	0.0500	13.29	167.02	Pipe Channel, culvert 48.0" Round Area= 12.6 sf Perim= 12.6' r= 1.00' n= 0.025 Corrugated metal
0.1	360	0.3100	53.27	13,317.10	Trap/Vee/Rect Channel Flow, stream Bot.W=15.00' D=10.00' Z= 1.0 '/' Top.W=35.00' n= 0.050 Mountain streams w/large boulders
0.1	90	0.0500	19.28	378.54	Pipe Channel, culvert 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.020 Corrugated PE, corrugated interior
0.6	393	0.0280	10.52	1,068.46	Trap/Vee/Rect Channel Flow, Bot.W=25.00' D=4.00' Z= 0.1 '/' Top.W=25.80' n= 0.050 Mountain streams w/large boulders

29.0 5,405 Total

Summary for Subcatchment 11.40S: Area-11.40

Runoff = 6.61 cfs @ 12.04 hrs, Volume= 0.618 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
43,800	98	Paved parking, HSG C
43,800		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	10	0.0200	0.84		Sheet Flow, road Smooth surfaces n= 0.011 P2= 3.00"
1.0	240	0.0375	3.93		Shallow Concentrated Flow, asphalt curb Paved Kv= 20.3 fps
2.0	1,940	0.0700	16.23	114.70	Pipe Channel, closed pipe system 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.020 Corrugated PE, corrugated interior
3.2	2,190	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11.41S: Area-11.41

Runoff = 7.35 cfs @ 12.06 hrs, Volume= 0.628 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
51,164	71	Meadow, non-grazed, HSG C
26,216	70	Woods, Good, HSG C
77,380	71	Weighted Average
77,380		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	75	0.2500	0.19		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
0.7	135	0.2000	3.13		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.2	145	0.0900	10.09	75.67	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
7.3	355	Total			

Summary for Subcatchment 11.4S: Area-11.4

Runoff = 5.94 cfs @ 12.04 hrs, Volume= 0.555 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
39,350	98	Roofs, HSG C
0	74	>75% Grass cover, Good, HSG C
39,350	98	Weighted Average
39,350		100.00% Impervious Area

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

Summary for Subcatchment 11.5S: Area-11.5

Runoff = 19.84 cfs @ 12.09 hrs, Volume= 1.875 af, Depth= 4.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
24,776	74	>75% Grass cover, Good, HSG C
172,742	70	Woods, Good, HSG C
46,276	65	Brush, Good, HSG C
243,794	69	Weighted Average
243,794		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.6	75	0.2100	0.27		Sheet Flow, Sheet flow: Woods Grass: Dense n= 0.240 P2= 3.00"
4.3	725	0.3200	2.83		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.5	150	0.0300	4.67	18.67	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
9.4	950	Total			

Summary for Subcatchment 11.6S: Area-11.6

Runoff = 2.45 cfs @ 12.04 hrs, Volume= 0.199 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
6,780	74	>75% Grass cover, Good, HSG C
17,770	70	Woods, Good, HSG C
24,550	71	Weighted Average
24,550		100.00% Pervious Area

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

Summary for Subcatchment 11.7S: Area-11.7

Runoff = 6.83 cfs @ 12.04 hrs, Volume= 0.556 af, Depth= 4.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
0	98	Paved parking, HSG C
0	98	Roofs, HSG C
38,978	74	>75% Grass cover, Good, HSG C
27,785	70	Woods, Good, HSG C
66,763	72	Weighted Average
66,763		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	70	0.2200	0.27		Sheet Flow, Grass: Dense n= 0.240 P2= 3.00"
1.1	740	0.1200	11.65	87.37	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
5.3	810				Total, Increased to minimum Tc = 6.0 min

Summary for Subcatchment 11.8S: Area-11.8

Runoff = 17.85 cfs @ 12.15 hrs, Volume= 1.934 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
7,422	74	>75% Grass cover, Good, HSG C
131,668	70	Woods, Good, HSG C
99,149	71	Meadow, non-grazed, HSG C
238,239	71	Weighted Average
238,239		100.00% Pervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 395

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	75	0.3000	0.21		Sheet Flow, Woods / Meadow Woods: Light underbrush n= 0.400 P2= 3.00"
7.4	1,157	0.2700	2.60		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.5	135	0.0300	4.67	18.67	Trap/Vee/Rect Channel Flow, swale Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Earth, cobble bottom, clean sides
13.9	1,367	Total			

Summary for Subcatchment 11.9S: Area-11.9

Runoff = 8.24 cfs @ 12.07 hrs, Volume= 0.732 af, Depth= 4.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
36,375	74	>75% Grass cover, Good, HSG C
51,495	70	Woods, Good, HSG C
87,870	72	Weighted Average
87,870		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	75	0.2700	0.20		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
1.1	90	0.0375	1.36		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.9	640	0.1200	11.65	87.37	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Earth, cobble bottom, clean sides
8.2	805	Total			

Summary for Subcatchment 12.1S: Area-12.1

Runoff = 25.94 cfs @ 12.48 hrs, Volume= 4.393 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
14,995	77	Woods, Good, HSG D
540,880	70	Woods, Good, HSG C
555,875	70	Weighted Average
555,875		100.00% Pervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 396

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	75	0.1600	0.16		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
29.6	1,685	0.0360	0.95		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.3	235	0.1600	14.19	118.17	Trap/Vee/Rect Channel Flow, stream/wetland Bot.W=3.00' D=1.50' Z= 1.7 '/' Top.W=8.10' n= 0.040 Mountain streams
37.6	1,995	Total			

Summary for Subcatchment 12.2S: Area-12.2

Runoff = 24.24 cfs @ 12.09 hrs, Volume= 2.295 af, Depth= 4.80"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
35,335	98	Paved parking, HSG C
0	98	Roofs, HSG C
133,625	74	>75% Grass cover, Good, HSG C
80,725	70	Woods, Good, HSG C
249,685	76	Weighted Average
214,350		85.85% Pervious Area
35,335		14.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	75	0.2000	0.18		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
0.4	60	0.2000	2.24		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
1.3	210	0.1500	2.71		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.8	135	0.3000	2.74		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
9.5	480	Total			

Summary for Subcatchment 12.3S: Area-12.3

Runoff = 2.75 cfs @ 12.04 hrs, Volume= 0.257 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
18,250	98	Paved parking, HSG C
18,250		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0400	1.76		Sheet Flow, Sheet flow: Woods Smooth surfaces n= 0.011 P2= 3.00"
0.8	280	0.0850	5.92		Shallow Concentrated Flow, pavement Paved Kv= 20.3 fps
1.7	380	Total, Increased to minimum Tc = 6.0 min			

Summary for Reach 11.10R: Mountain stream

Inflow Area = 102.908 ac, 6.37% Impervious, Inflow Depth = 4.39" for 100-yr Local event
 Inflow = 216.40 cfs @ 12.36 hrs, Volume= 37.612 af
 Outflow = 216.03 cfs @ 12.37 hrs, Volume= 37.612 af, Atten= 0%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Max. Velocity= 11.98 fps, Min. Travel Time= 0.5 min
 Avg. Velocity = 2.18 fps, Avg. Travel Time= 3.0 min

Peak Storage= 7,099 cf @ 12.36 hrs
 Average Depth at Peak Storage= 0.72'
 Bank-Full Depth= 4.00' Flow Area= 101.6 sf, Capacity= 3,320.07 cfs

25.00' x 4.00' deep channel, n= 0.040 Mountain streams
 Side Slope Z-value= 0.1 '/' Top Width= 25.80'
 Length= 393.0' Slope= 0.1730 '/'
 Inlet Invert= 1,768.00', Outlet Invert= 1,700.00'



Summary for Reach 11.3aR: Bouldery stream

Inflow Area = 35.275 ac, 0.39% Impervious, Inflow Depth = 4.14" for 100-yr Local event
 Inflow = 75.95 cfs @ 12.36 hrs, Volume= 12.179 af
 Outflow = 75.83 cfs @ 12.37 hrs, Volume= 12.179 af, Atten= 0%, Lag= 0.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Max. Velocity= 10.87 fps, Min. Travel Time= 0.2 min
 Avg. Velocity = 2.69 fps, Avg. Travel Time= 0.9 min

Peak Storage= 991 cf @ 12.37 hrs
 Average Depth at Peak Storage= 0.46'
 Bank-Full Depth= 4.00' Flow Area= 61.6 sf, Capacity= 2,234.38 cfs

15.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 0.1 '/' Top Width= 15.80'
Length= 142.0' Slope= 0.4014 '/'
Inlet Invert= 2,390.00', Outlet Invert= 2,333.00'



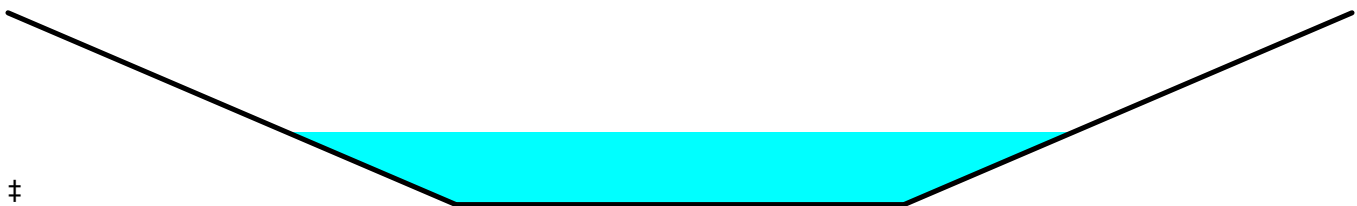
Summary for Reach 11.4aR: DP11.3

Inflow Area = 58.925 ac, 2.24% Impervious, Inflow Depth = 4.21" for 100-yr Local event
Inflow = 131.90 cfs @ 12.31 hrs, Volume= 20.663 af
Outflow = 131.72 cfs @ 12.32 hrs, Volume= 20.663 af, Atten= 0%, Lag= 0.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 14.44 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 2.59 fps, Avg. Travel Time= 1.4 min

Peak Storage= 2,009 cf @ 12.31 hrs
Average Depth at Peak Storage= 0.95'
Bank-Full Depth= 2.50' Flow Area= 35.0 sf, Capacity= 858.32 cfs

7.00' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.8 '/' Top Width= 21.00'
Length= 220.0' Slope= 0.3636 '/'
Inlet Invert= 2,292.00', Outlet Invert= 2,212.00'



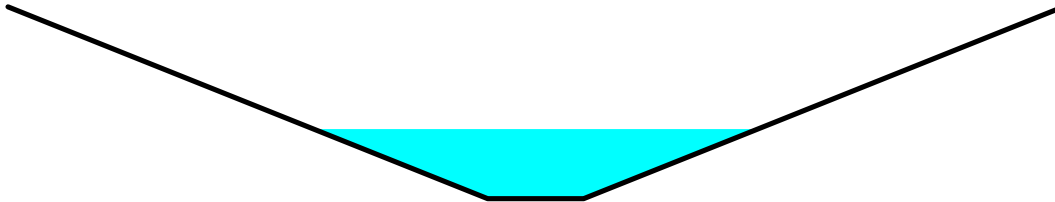
Summary for Reach 11.4bR: DP11.4

Inflow Area = 14.025 ac, 28.21% Impervious, Inflow Depth = 5.22" for 100-yr Local event
Inflow = 21.57 cfs @ 12.47 hrs, Volume= 6.098 af
Outflow = 21.56 cfs @ 12.47 hrs, Volume= 6.098 af, Atten= 0%, Lag= 0.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.59 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 2.56 fps, Avg. Travel Time= 0.9 min

Peak Storage= 296 cf @ 12.47 hrs
Average Depth at Peak Storage= 0.72'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 231.18 cfs

1.00' x 2.00' deep channel, n= 0.040 Winding stream, pools & shoals
Side Slope Z-value= 2.5 '/' Top Width= 11.00'
Length= 145.0' Slope= 0.2621 '/'
Inlet Invert= 2,250.00', Outlet Invert= 2,212.00'



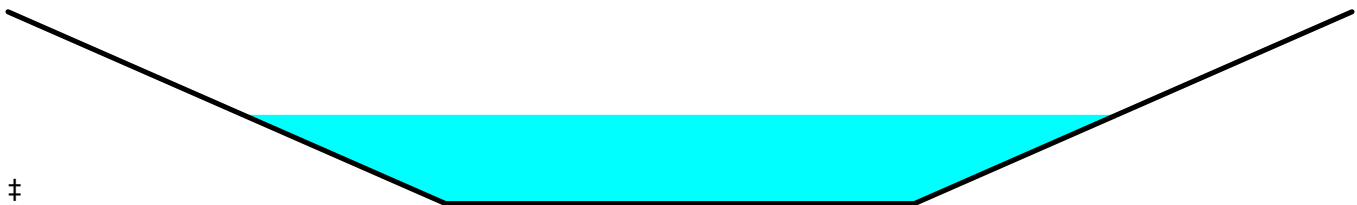
Summary for Reach 11.4R: DP-11.2

Inflow Area = 57.335 ac, 2.30% Impervious, Inflow Depth = 4.21" for 100-yr Local event
Inflow = 129.63 cfs @ 12.30 hrs, Volume= 20.101 af
Outflow = 129.36 cfs @ 12.31 hrs, Volume= 20.101 af, Atten= 0%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.43 fps, Min. Travel Time= 0.4 min
Avg. Velocity = 1.78 fps, Avg. Travel Time= 2.5 min

Peak Storage= 3,317 cf @ 12.31 hrs
Average Depth at Peak Storage= 1.16'
Bank-Full Depth= 2.50' Flow Area= 36.3 sf, Capacity= 575.36 cfs

7.50' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.8 '/' Top Width= 21.50'
Length= 267.0' Slope= 0.1498 '/'
Inlet Invert= 2,332.00', Outlet Invert= 2,292.00'



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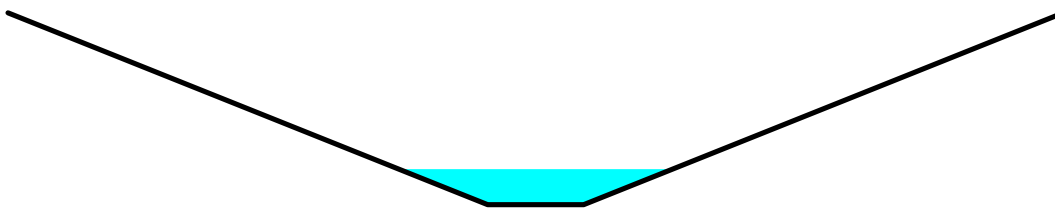
Summary for Reach 11.5aR: DP11.5

Inflow Area = 1.653 ac, 17.26% Impervious, Inflow Depth = 4.89" for 100-yr Local event
Inflow = 4.95 cfs @ 12.15 hrs, Volume= 0.673 af
Outflow = 4.84 cfs @ 12.20 hrs, Volume= 0.673 af, Atten= 2%, Lag= 2.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.86 fps, Min. Travel Time= 1.5 min
Avg. Velocity = 2.21 fps, Avg. Travel Time= 4.7 min

Peak Storage= 443 cf @ 12.17 hrs
Average Depth at Peak Storage= 0.37'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 217.63 cfs

1.00' x 2.00' deep channel, n= 0.040 Winding stream, pools & shoals
Side Slope Z-value= 2.5 '/' Top Width= 11.00'
Length= 620.0' Slope= 0.2323 '/'
Inlet Invert= 2,254.00', Outlet Invert= 2,110.00'



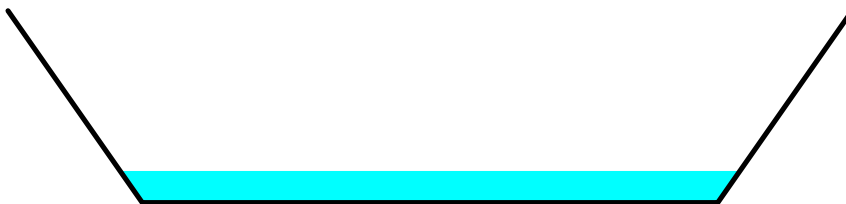
Summary for Reach 11.5R: Mountain stream

Inflow Area = 72.950 ac, 7.23% Impervious, Inflow Depth = 4.40" for 100-yr Local event
Inflow = 149.68 cfs @ 12.35 hrs, Volume= 26.761 af
Outflow = 149.20 cfs @ 12.37 hrs, Volume= 26.761 af, Atten= 0%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 11.66 fps, Min. Travel Time= 0.7 min
Avg. Velocity = 2.27 fps, Avg. Travel Time= 3.3 min

Peak Storage= 5,838 cf @ 12.36 hrs
Average Depth at Peak Storage= 0.82'
Bank-Full Depth= 5.00' Flow Area= 92.5 sf, Capacity= 2,943.05 cfs

15.00' x 5.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 0.7 '/' Top Width= 22.00'
Length= 455.0' Slope= 0.2242 '/'
Inlet Invert= 2,212.00', Outlet Invert= 2,110.00'



Summary for Reach 11.6aR: Mountain stream

Inflow Area = 102.908 ac, 6.37% Impervious, Inflow Depth = 4.39" for 100-yr Local event
Inflow = 218.10 cfs @ 12.32 hrs, Volume= 37.612 af
Outflow = 217.64 cfs @ 12.33 hrs, Volume= 37.612 af, Atten= 0%, Lag= 0.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 17.07 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 3.17 fps, Avg. Travel Time= 1.3 min

Peak Storage= 3,124 cf @ 12.33 hrs
Average Depth at Peak Storage= 1.05'
Bank-Full Depth= 5.00' Flow Area= 100.0 sf, Capacity= 3,987.80 cfs

10.00' x 5.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.0 '/ Top Width= 30.00'
Length= 245.0' Slope= 0.4000 '/
Inlet Invert= 1,990.00', Outlet Invert= 1,892.00'



Summary for Reach 11.6R: Mountain stream

Inflow Area = 74.603 ac, 7.46% Impervious, Inflow Depth = 4.41" for 100-yr Local event
Inflow = 152.72 cfs @ 12.36 hrs, Volume= 27.435 af
Outflow = 152.16 cfs @ 12.38 hrs, Volume= 27.435 af, Atten= 0%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 12.99 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 2.47 fps, Avg. Travel Time= 3.2 min

Peak Storage= 5,580 cf @ 12.37 hrs
Average Depth at Peak Storage= 0.98'
Bank-Full Depth= 5.00' Flow Area= 100.0 sf, Capacity= 3,155.95 cfs

10.00' x 5.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.0 '/ Top Width= 30.00'
Length= 475.0' Slope= 0.2505 '/
Inlet Invert= 2,109.00', Outlet Invert= 1,990.00'



Summary for Reach 11.8R: Mountain stream

Inflow Area = 102.908 ac, 6.37% Impervious, Inflow Depth = 4.39" for 100-yr Local event
Inflow = 217.64 cfs @ 12.33 hrs, Volume= 37.612 af
Outflow = 216.84 cfs @ 12.35 hrs, Volume= 37.612 af, Atten= 0%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Max. Velocity= 14.77 fps, Min. Travel Time= 0.4 min
Avg. Velocity = 3.90 fps, Avg. Travel Time= 1.5 min

Peak Storage= 5,292 cf @ 12.34 hrs
Average Depth at Peak Storage= 0.92'
Bank-Full Depth= 10.00' Flow Area= 250.0 sf, Capacity= 13,400.37 cfs

15.00' x 10.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/ Top Width= 35.00'
Length= 360.0' Slope= 0.3139 '/
Inlet Invert= 1,887.00', Outlet Invert= 1,774.00'



Summary for Reach DP-1: Design Point-1

Inflow Area = 72.474 ac, 5.73% Impervious, Inflow Depth = 4.35" for 100-yr Local event
Inflow = 150.59 cfs @ 12.24 hrs, Volume= 26.263 af
Outflow = 150.58 cfs @ 12.24 hrs, Volume= 26.263 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 14.31 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 2.04 fps, Avg. Travel Time= 0.1 min

Peak Storage= 105 cf @ 12.24 hrs
Average Depth at Peak Storage= 1.27'
Bank-Full Depth= 3.00' Flow Area= 30.0 sf, Capacity= 670.80 cfs

7.00' x 3.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.0 '/ Top Width= 13.00'
Length= 10.0' Slope= 0.1500 '/
Inlet Invert= 0.00', Outlet Invert= -1.50'



Summary for Reach DP-11: Design Point-11

Inflow Area = 168.027 ac, 7.68% Impervious, Inflow Depth = 4.42" for 100-yr Local event
Inflow = 378.16 cfs @ 12.36 hrs, Volume= 61.953 af
Outflow = 378.16 cfs @ 12.36 hrs, Volume= 61.953 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-12: Design Point-12

Inflow Area = 19.291 ac, 8.34% Impervious, Inflow Depth = 4.46" for 100-yr Local event
Inflow = 30.74 cfs @ 12.49 hrs, Volume= 7.175 af
Outflow = 30.74 cfs @ 12.49 hrs, Volume= 7.175 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Max. Velocity= 10.63 fps, Min. Travel Time= 0.0 min

Avg. Velocity = 1.70 fps, Avg. Travel Time= 0.1 min

Peak Storage= 29 cf @ 12.49 hrs

Average Depth at Peak Storage= 0.70'

Bank-Full Depth= 1.50' Flow Area= 8.1 sf, Capacity= 128.70 cfs

3.00' x 1.50' deep channel, n= 0.040 Mountain streams

Side Slope Z-value= 1.6 '/' Top Width= 7.80'

Length= 10.0' Slope= 0.2000 '/'

Inlet Invert= 0.00', Outlet Invert= -2.00'



Summary for Reach DP-1a: Design Point-1a

Inflow Area = 16.476 ac, 9.23% Impervious, Inflow Depth = 4.54" for 100-yr Local event
Inflow = 33.37 cfs @ 12.31 hrs, Volume= 6.233 af
Outflow = 33.36 cfs @ 12.31 hrs, Volume= 6.234 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Max. Velocity= 7.33 fps, Min. Travel Time= 0.0 min

Avg. Velocity = 1.20 fps, Avg. Travel Time= 0.1 min

Peak Storage= 46 cf @ 12.31 hrs

Average Depth at Peak Storage= 0.76'

Bank-Full Depth= 1.25' Flow Area= 10.0 sf, Capacity= 97.10 cfs

3.00' x 1.25' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.0 '/' Top Width= 13.00'
Length= 10.0' Slope= 0.1000 '/'
Inlet Invert= 0.00', Outlet Invert= -1.00'



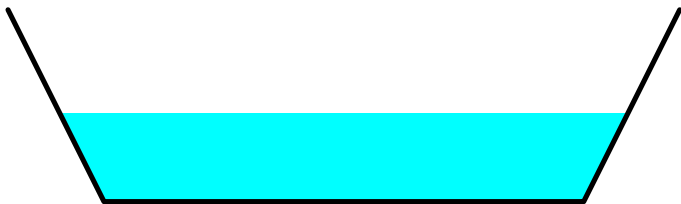
Summary for Reach DP-2: Design Point-2

Inflow Area = 31.101 ac, 14.56% Impervious, Inflow Depth = 4.69" for 100-yr Local event
Inflow = 66.96 cfs @ 12.15 hrs, Volume= 12.162 af
Outflow = 66.95 cfs @ 12.15 hrs, Volume= 12.162 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 13.27 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 1.93 fps, Avg. Travel Time= 0.1 min

Peak Storage= 50 cf @ 12.15 hrs
Average Depth at Peak Storage= 0.92'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 233.42 cfs

5.00' x 2.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 0.5 '/' Top Width= 7.00'
Length= 10.0' Slope= 0.2000 '/'
Inlet Invert= 0.00', Outlet Invert= -2.00'



Summary for Reach DP-2a: Design Point-2a

Inflow Area = 1.266 ac, 0.00% Impervious, Inflow Depth = 4.24" for 100-yr Local event
Inflow = 5.15 cfs @ 12.06 hrs, Volume= 0.448 af
Outflow = 5.15 cfs @ 12.06 hrs, Volume= 0.448 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-2b: Design Point-2b

Inflow Area = 4.686 ac, 0.00% Impervious, Inflow Depth = 4.24" for 100-yr Local event
Inflow = 18.47 cfs @ 12.07 hrs, Volume= 1.657 af
Outflow = 18.47 cfs @ 12.07 hrs, Volume= 1.657 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-3: Design Point-3

Inflow Area = 2.415 ac, 0.00% Impervious, Inflow Depth = 7.02" for 100-yr Local event
Inflow = 26.11 cfs @ 12.27 hrs, Volume= 1.413 af
Outflow = 26.03 cfs @ 12.27 hrs, Volume= 1.413 af, Atten= 0%, Lag= 0.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Max. Velocity= 14.63 fps, Min. Travel Time= 0.2 min

Avg. Velocity = 3.78 fps, Avg. Travel Time= 0.7 min

Peak Storage= 267 cf @ 12.27 hrs

Average Depth at Peak Storage= 0.83'

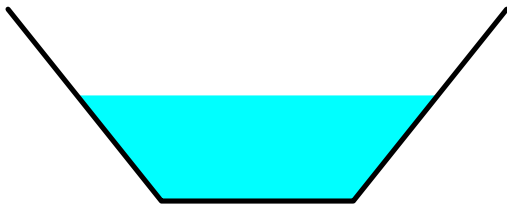
Bank-Full Depth= 1.50' Flow Area= 4.1 sf, Capacity= 79.12 cfs

1.50' x 1.50' deep channel, n= 0.040 Mountain streams

Side Slope Z-value= 0.8 '/' Top Width= 3.90'

Length= 150.0' Slope= 0.4000 '/'

Inlet Invert= 0.00', Outlet Invert= -60.00'



Summary for Reach DP-4: Design Point-4

Inflow Area = 32.799 ac, 11.24% Impervious, Inflow Depth = 4.37" for 100-yr Local event
Inflow = 54.41 cfs @ 12.20 hrs, Volume= 11.931 af
Outflow = 54.40 cfs @ 12.20 hrs, Volume= 11.931 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Max. Velocity= 12.62 fps, Min. Travel Time= 0.0 min

Avg. Velocity = 2.24 fps, Avg. Travel Time= 0.1 min

Peak Storage= 43 cf @ 12.20 hrs

Average Depth at Peak Storage= 0.65'

Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 768.66 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 12.00'
Length= 10.0' Slope= 0.4000 '/'
Inlet Invert= 0.00', Outlet Invert= -4.00'



Summary for Reach DP-5: Design Point-5

Inflow Area = 25.190 ac, 1.32% Impervious, Inflow Depth = 4.24" for 100-yr Local event
Inflow = 91.53 cfs @ 12.11 hrs, Volume= 8.911 af
Outflow = 91.48 cfs @ 12.11 hrs, Volume= 8.911 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 12.59 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 2.80 fps, Avg. Travel Time= 0.1 min

Peak Storage= 73 cf @ 12.11 hrs
Average Depth at Peak Storage= 1.45'
Bank-Full Depth= 2.50' Flow Area= 16.3 sf, Capacity= 273.11 cfs

3.00' x 2.50' deep channel, n= 0.035 Earth, dense weeds
Side Slope Z-value= 1.4 '/' Top Width= 10.00'
Length= 10.0' Slope= 0.1000 '/'
Inlet Invert= 1,736.00', Outlet Invert= 1,735.00'



Summary for Reach DP-6: Design Point 6

Inflow Area = 2.077 ac, 21.55% Impervious, Inflow Depth = 4.46" for 100-yr Local event
Inflow = 8.30 cfs @ 12.05 hrs, Volume= 0.772 af
Outflow = 8.30 cfs @ 12.05 hrs, Volume= 0.772 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-7: Design Point-7

Inflow Area = 2.426 ac, 0.00% Impervious, Inflow Depth = 3.58" for 100-yr Local event
Inflow = 8.80 cfs @ 12.04 hrs, Volume= 0.724 af
Outflow = 8.80 cfs @ 12.04 hrs, Volume= 0.724 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-8: Design Point-8

Inflow Area = 53.384 ac, 14.83% Impervious, Inflow Depth = 4.47" for 100-yr Local event
Inflow = 105.67 cfs @ 12.30 hrs, Volume= 19.870 af
Outflow = 105.68 cfs @ 12.30 hrs, Volume= 19.870 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Max. Velocity= 11.50 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 1.85 fps, Avg. Travel Time= 0.1 min

Peak Storage= 92 cf @ 12.30 hrs
Average Depth at Peak Storage= 1.57'
Bank-Full Depth= 2.50' Flow Area= 18.8 sf, Capacity= 277.01 cfs

3.00' x 2.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.8 '/' Top Width= 12.00'
Length= 10.0' Slope= 0.1000 '/'
Inlet Invert= 0.00', Outlet Invert= -1.00'



Summary for Reach DP-9: Design Point-9

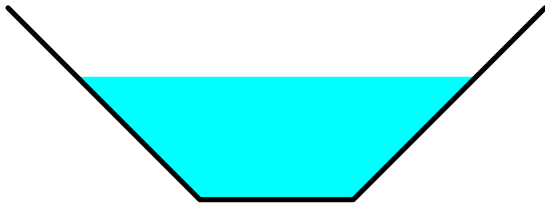
Inflow Area = 29.876 ac, 15.42% Impervious, Inflow Depth = 4.65" for 100-yr Local event
Inflow = 62.61 cfs @ 12.13 hrs, Volume= 11.582 af
Outflow = 62.22 cfs @ 12.14 hrs, Volume= 11.582 af, Atten= 1%, Lag= 0.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Max. Velocity= 10.81 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 1.82 fps, Avg. Travel Time= 0.9 min

Peak Storage= 576 cf @ 12.14 hrs
Average Depth at Peak Storage= 1.60'
Bank-Full Depth= 2.50' Flow Area= 11.3 sf, Capacity= 152.56 cfs

2.00' x 2.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 100.0' Slope= 0.1000 '/'
Inlet Invert= 1,655.00', Outlet Invert= 1,645.00'



Summary for Reach R1.1: Mountain Stream

Inflow Area = 35.690 ac, 0.77% Impervious, Inflow Depth = 4.16" for 100-yr Local event
Inflow = 104.89 cfs @ 12.19 hrs, Volume= 12.361 af
Outflow = 103.08 cfs @ 12.23 hrs, Volume= 12.361 af, Atten= 2%, Lag= 2.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.93 fps, Min. Travel Time= 1.2 min
Avg. Velocity = 2.60 fps, Avg. Travel Time= 5.2 min

Peak Storage= 7,710 cf @ 12.21 hrs
Average Depth at Peak Storage= 0.81'
Bank-Full Depth= 4.50' Flow Area= 69.8 sf, Capacity= 1,947.63 cfs

11.00' x 4.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.0 '/' Top Width= 20.00'
Length= 805.0' Slope= 0.1342 '/'
Inlet Invert= 2,308.00', Outlet Invert= 2,200.00'



Summary for Reach R1.12: WETLAND

Inflow Area = 15.782 ac, 9.63% Impervious, Inflow Depth = 4.53" for 100-yr Local event
Inflow = 32.38 cfs @ 12.30 hrs, Volume= 5.962 af
Outflow = 32.27 cfs @ 12.31 hrs, Volume= 5.962 af, Atten= 0%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.76 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 1.39 fps, Avg. Travel Time= 2.4 min

Peak Storage= 662 cf @ 12.30 hrs
Average Depth at Peak Storage= 0.16'
Bank-Full Depth= 0.50' Flow Area= 10.3 sf, Capacity= 206.27 cfs

20.00' x 0.50' deep channel, n= 0.035 Earth, dense weeds
Side Slope Z-value= 1.0 '/' Top Width= 21.00'
Length= 200.0' Slope= 0.6000 '/'
Inlet Invert= 2,256.00', Outlet Invert= 2,136.00'



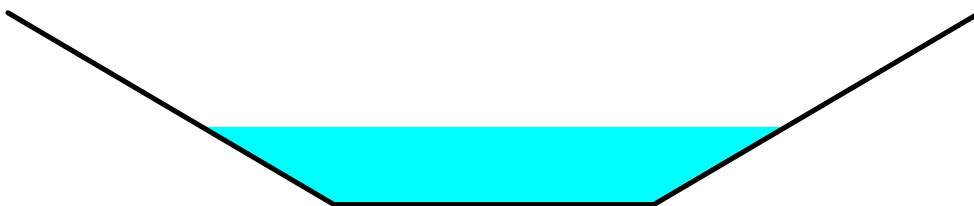
Summary for Reach R1.2: Mountain Stream

Inflow Area = 38.694 ac, 1.10% Impervious, Inflow Depth = 4.17" for 100-yr Local event
Inflow = 112.14 cfs @ 12.22 hrs, Volume= 13.435 af
Outflow = 110.73 cfs @ 12.25 hrs, Volume= 13.435 af, Atten= 1%, Lag= 1.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 12.99 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 2.94 fps, Avg. Travel Time= 3.5 min

Peak Storage= 5,287 cf @ 12.23 hrs
Average Depth at Peak Storage= 1.21'
Bank-Full Depth= 3.00' Flow Area= 30.3 sf, Capacity= 636.66 cfs

5.00' x 3.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.7 '/' Top Width= 15.20'
Length= 616.0' Slope= 0.1461 '/'
Inlet Invert= 2,200.00', Outlet Invert= 2,110.00'



Summary for Reach R1.8: WETLAND

Inflow Area = 3.337 ac, 12.31% Impervious, Inflow Depth = 4.80" for 100-yr Local event
Inflow = 14.66 cfs @ 12.05 hrs, Volume= 1.334 af
Outflow = 14.31 cfs @ 12.06 hrs, Volume= 1.334 af, Atten= 2%, Lag= 0.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.85 fps, Min. Travel Time= 0.5 min
Avg. Velocity = 0.69 fps, Avg. Travel Time= 2.9 min

Peak Storage= 461 cf @ 12.05 hrs
Average Depth at Peak Storage= 0.19'
Bank-Full Depth= 0.50' Flow Area= 10.3 sf, Capacity= 73.93 cfs

20.00' x 0.50' deep channel, n= 0.070 Sluggish weedy reaches w/pools
Side Slope Z-value= 1.0 '/' Top Width= 21.00'
Length= 120.0' Slope= 0.3083 '/'
Inlet Invert= 2,205.00', Outlet Invert= 2,168.00'



Summary for Reach R11.1: DP11.6

Inflow Area = 5.543 ac, 8.39% Impervious, Inflow Depth = 4.54" for 100-yr Local event
Inflow = 17.65 cfs @ 12.13 hrs, Volume= 2.099 af
Outflow = 17.41 cfs @ 12.17 hrs, Volume= 2.099 af, Atten= 1%, Lag= 2.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.99 fps, Min. Travel Time= 1.0 min
Avg. Velocity = 1.42 fps, Avg. Travel Time= 3.6 min

Peak Storage= 1,097 cf @ 12.15 hrs
Average Depth at Peak Storage= 0.69'
Bank-Full Depth= 1.50' Flow Area= 13.1 sf, Capacity= 102.63 cfs

2.00' x 1.50' deep channel, n= 0.070 Sluggish weedy reaches w/pools
Side Slope Z-value= 4.5 '/' Top Width= 15.50'
Length= 310.0' Slope= 0.1742 '/'
Inlet Invert= 2,224.00', Outlet Invert= 2,170.00'



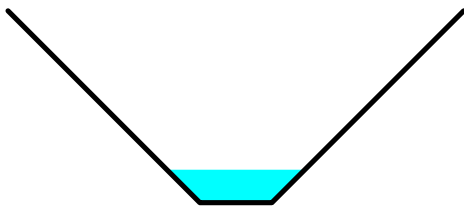
Summary for Reach R11.12: Mountain stream

Inflow Area = 4.895 ac, 2.81% Impervious, Inflow Depth = 4.22" for 100-yr Local event
Inflow = 18.89 cfs @ 12.07 hrs, Volume= 1.722 af
Outflow = 18.44 cfs @ 12.08 hrs, Volume= 1.722 af, Atten= 2%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 12.32 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 2.94 fps, Avg. Travel Time= 1.1 min

Peak Storage= 301 cf @ 12.08 hrs
Average Depth at Peak Storage= 0.69'
Bank-Full Depth= 4.00' Flow Area= 22.0 sf, Capacity= 678.27 cfs

1.50' x 4.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.0 '/' Top Width= 9.50'
Length= 200.0' Slope= 0.3350 '/'
Inlet Invert= 2,468.00', Outlet Invert= 2,401.00'



Summary for Reach R11.13: Mountain stream

Inflow Area = 29.816 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
Inflow = 68.17 cfs @ 12.37 hrs, Volume= 10.264 af
Outflow = 67.93 cfs @ 12.38 hrs, Volume= 10.264 af, Atten= 0%, Lag= 0.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.15 fps, Min. Travel Time= 0.4 min
Avg. Velocity = 3.52 fps, Avg. Travel Time= 1.0 min

Peak Storage= 1,637 cf @ 12.37 hrs
Average Depth at Peak Storage= 0.62'
Bank-Full Depth= 10.00' Flow Area= 130.0 sf, Capacity= 4,439.64 cfs

12.00' x 10.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 0.1 '/' Top Width= 14.00'
Length= 220.0' Slope= 0.2045 '/'
Inlet Invert= 2,446.00', Outlet Invert= 2,401.00'



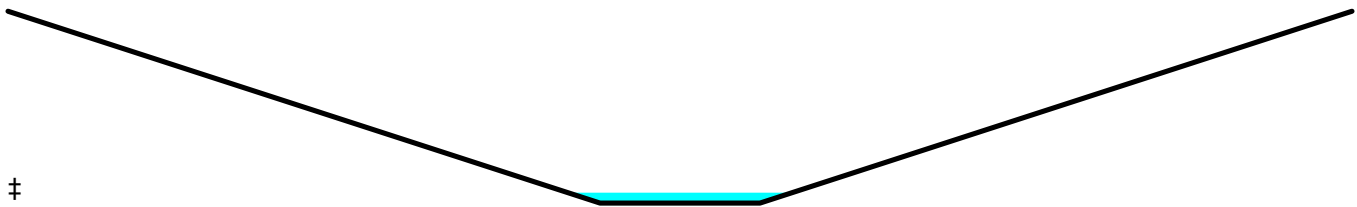
Summary for Reach R11.14: Mountain stream

Inflow Area = 0.649 ac, 0.00% Impervious, Inflow Depth = 4.02" for 100-yr Local event
Inflow = 2.66 cfs @ 12.04 hrs, Volume= 0.217 af
Outflow = 2.60 cfs @ 12.06 hrs, Volume= 0.217 af, Atten= 2%, Lag= 0.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.55 fps, Min. Travel Time= 0.5 min
Avg. Velocity = 1.73 fps, Avg. Travel Time= 1.4 min

Peak Storage= 83 cf @ 12.05 hrs
Average Depth at Peak Storage= 0.16'
Bank-Full Depth= 3.00' Flow Area= 42.3 sf, Capacity= 989.43 cfs

3.00' x 3.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 3.7 '/ Top Width= 25.20'
Length= 140.0' Slope= 0.2071 '/
Inlet Invert= 2,464.00', Outlet Invert= 2,435.00'



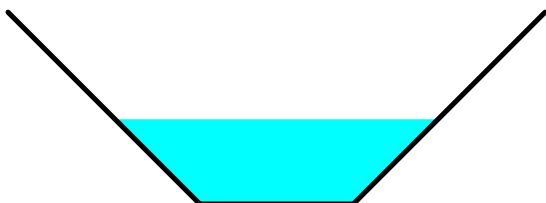
Summary for Reach R11.16: SWALE

Inflow Area = 11.496 ac, 0.90% Impervious, Inflow Depth = 4.16" for 100-yr Local event
Inflow = 32.51 cfs @ 12.21 hrs, Volume= 3.985 af
Outflow = 32.12 cfs @ 12.24 hrs, Volume= 3.985 af, Atten= 1%, Lag= 1.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.46 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 2.34 fps, Avg. Travel Time= 3.2 min

Peak Storage= 1,544 cf @ 12.22 hrs
Average Depth at Peak Storage= 1.10'
Bank-Full Depth= 2.50' Flow Area= 11.3 sf, Capacity= 160.81 cfs

2.00' x 2.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/ Top Width= 7.00'
Length= 450.0' Slope= 0.1111 '/
Inlet Invert= 2,450.00', Outlet Invert= 2,400.00'



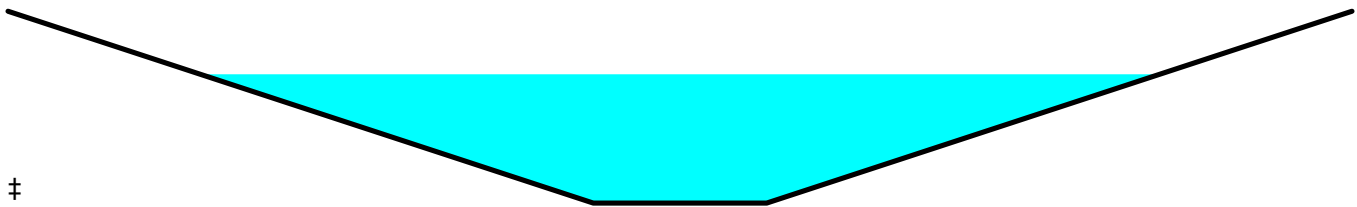
Summary for Reach R11.1A: DP11.7

Inflow Area = 28.305 ac, 3.51% Impervious, Inflow Depth = 4.31" for 100-yr Local event
Inflow = 74.75 cfs @ 12.21 hrs, Volume= 10.177 af
Outflow = 73.43 cfs @ 12.26 hrs, Volume= 10.177 af, Atten= 2%, Lag= 2.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 11.23 fps, Min. Travel Time= 1.4 min
Avg. Velocity = 2.11 fps, Avg. Travel Time= 7.5 min

Peak Storage= 6,248 cf @ 12.23 hrs
Average Depth at Peak Storage= 1.01'
Bank-Full Depth= 1.50' Flow Area= 13.1 sf, Capacity= 186.80 cfs

2.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.5 '/ Top Width= 15.50'
Length= 950.0' Slope= 0.1884 '/
Inlet Invert= 2,169.00', Outlet Invert= 1,990.00'



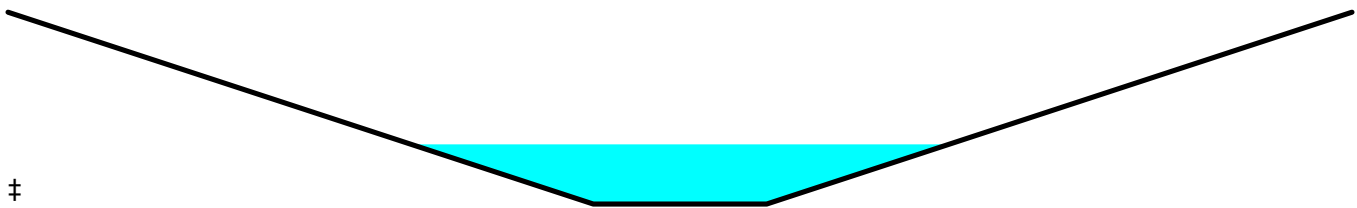
Summary for Reach R11.1B: Mountain stream

Inflow Area = 4.561 ac, 1.76% Impervious, Inflow Depth = 4.30" for 100-yr Local event
Inflow = 16.06 cfs @ 12.12 hrs, Volume= 1.633 af
Outflow = 15.70 cfs @ 12.13 hrs, Volume= 1.633 af, Atten= 2%, Lag= 0.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.35 fps, Min. Travel Time= 0.4 min
Avg. Velocity = 2.14 fps, Avg. Travel Time= 1.6 min

Peak Storage= 383 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.47'
Bank-Full Depth= 1.50' Flow Area= 13.1 sf, Capacity= 215.17 cfs

2.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.5 '/ Top Width= 15.50'
Length= 200.0' Slope= 0.2500 '/
Inlet Invert= 2,276.00', Outlet Invert= 2,226.00'



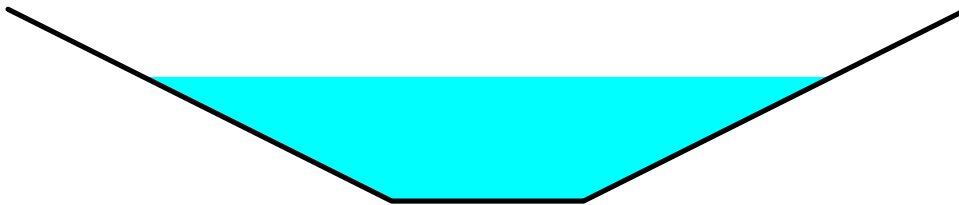
Summary for Reach R11.25: SWALE

Inflow Area = 15.057 ac, 0.00% Impervious, Inflow Depth = 4.11" for 100-yr Local event
Inflow = 43.43 cfs @ 12.12 hrs, Volume= 5.152 af
Outflow = 42.51 cfs @ 12.15 hrs, Volume= 5.152 af, Atten= 2%, Lag= 1.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.21 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 2.82 fps, Avg. Travel Time= 2.1 min

Peak Storage= 2,079 cf @ 12.13 hrs
Average Depth at Peak Storage= 1.29'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 110.44 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 350.0' Slope= 0.0543 '/
Inlet Invert= 2,330.00', Outlet Invert= 2,311.00'



Summary for Reach R11.27: Overland

Inflow Area = 16.103 ac, 0.00% Impervious, Inflow Depth = 4.14" for 100-yr Local event
Inflow = 46.23 cfs @ 12.15 hrs, Volume= 5.551 af
Outflow = 45.42 cfs @ 12.22 hrs, Volume= 5.551 af, Atten= 2%, Lag= 4.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.34 fps, Min. Travel Time= 2.5 min
Avg. Velocity = 1.25 fps, Avg. Travel Time= 8.6 min

Peak Storage= 6,703 cf @ 12.17 hrs
Average Depth at Peak Storage= 0.10'
Bank-Full Depth= 0.50' Flow Area= 50.3 sf, Capacity= 620.34 cfs

100.00' x 0.50' deep channel, n= 0.035 Earth, dense weeds
Side Slope Z-value= 1.0 '/ Top Width= 101.00'
Length= 640.0' Slope= 0.2156 '/
Inlet Invert= 2,308.00', Outlet Invert= 2,170.00'



Summary for Reach R11.30: SWALE

Inflow Area = 2.196 ac, 13.15% Impervious, Inflow Depth = 4.71" for 100-yr Local event
Inflow = 4.96 cfs @ 12.24 hrs, Volume= 0.862 af
Outflow = 4.81 cfs @ 12.32 hrs, Volume= 0.862 af, Atten= 3%, Lag= 4.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.10 fps, Min. Travel Time= 2.6 min
Avg. Velocity = 0.47 fps, Avg. Travel Time= 11.6 min

Peak Storage= 746 cf @ 12.27 hrs
Average Depth at Peak Storage= 0.68'
Bank-Full Depth= 1.50' Flow Area= 7.5 sf, Capacity= 24.23 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 8.00'
Length= 325.0' Slope= 0.0092 '/
Inlet Invert= 2,183.00', Outlet Invert= 2,180.00'



Summary for Reach R11.31: SWALE

Inflow Area = 1.136 ac, 14.06% Impervious, Inflow Depth = 4.69" for 100-yr Local event
Inflow = 4.86 cfs @ 12.07 hrs, Volume= 0.444 af
Outflow = 4.72 cfs @ 12.10 hrs, Volume= 0.444 af, Atten= 3%, Lag= 1.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.53 fps, Min. Travel Time= 0.7 min
Avg. Velocity = 0.62 fps, Avg. Travel Time= 3.8 min

Peak Storage= 190 cf @ 12.09 hrs
Average Depth at Peak Storage= 0.46'
Bank-Full Depth= 1.50' Flow Area= 7.5 sf, Capacity= 49.99 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 8.00'
Length= 140.0' Slope= 0.0393 '/
Inlet Invert= 2,189.50', Outlet Invert= 2,184.00'



Summary for Reach R11.33: Bouldery stream

Inflow Area = 13.664 ac, 8.65% Impervious, Inflow Depth = 4.42" for 100-yr Local event
Inflow = 36.23 cfs @ 12.23 hrs, Volume= 5.031 af
Outflow = 36.08 cfs @ 12.25 hrs, Volume= 5.031 af, Atten= 0%, Lag= 0.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.54 fps, Min. Travel Time= 0.4 min
Avg. Velocity = 1.78 fps, Avg. Travel Time= 1.8 min

Peak Storage= 913 cf @ 12.24 hrs
Average Depth at Peak Storage= 0.58'
Bank-Full Depth= 2.50' Flow Area= 26.9 sf, Capacity= 454.15 cfs

7.50' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.3 '/ Top Width= 14.00'
Length= 190.0' Slope= 0.1579 '/
Inlet Invert= 2,420.00', Outlet Invert= 2,390.00'



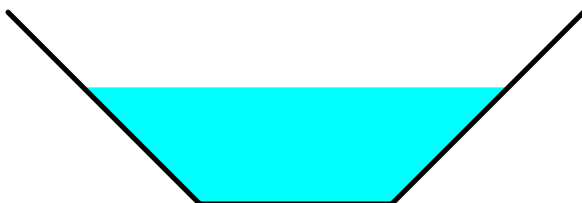
Summary for Reach R11.37: SWALE

Inflow Area = 13.040 ac, 0.00% Impervious, Inflow Depth = 4.07" for 100-yr Local event
Inflow = 36.61 cfs @ 12.10 hrs, Volume= 4.420 af
Outflow = 35.93 cfs @ 12.13 hrs, Volume= 4.420 af, Atten= 2%, Lag= 2.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.42 fps, Min. Travel Time= 1.1 min
Avg. Velocity = 3.53 fps, Avg. Travel Time= 2.8 min

Peak Storage= 2,348 cf @ 12.11 hrs
Average Depth at Peak Storage= 1.22'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 96.77 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/ Top Width= 6.00'
Length= 600.0' Slope= 0.1000 '/
Inlet Invert= 2,405.00', Outlet Invert= 2,345.00'



Summary for Reach R11.38: Wetland

Inflow Area = 2.196 ac, 13.15% Impervious, Inflow Depth = 4.71" for 100-yr Local event
Inflow = 4.81 cfs @ 12.32 hrs, Volume= 0.862 af
Outflow = 4.37 cfs @ 12.51 hrs, Volume= 0.862 af, Atten= 9%, Lag= 11.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.73 fps, Min. Travel Time= 7.0 min
Avg. Velocity = 0.12 fps, Avg. Travel Time= 42.1 min

Peak Storage= 1,855 cf @ 12.40 hrs
Average Depth at Peak Storage= 0.24'
Bank-Full Depth= 0.50' Flow Area= 12.8 sf, Capacity= 14.90 cfs

25.00' x 0.50' deep channel, n= 0.100 Very weedy reaches w/pools
Side Slope Z-value= 1.0 '/' Top Width= 26.00'
Length= 306.0' Slope= 0.0163 '/'
Inlet Invert= 2,180.00', Outlet Invert= 2,175.00'



Summary for Reach R11.39: SWALE

Inflow Area = 1.520 ac, 70.97% Impervious, Inflow Depth = 6.54" for 100-yr Local event
Inflow = 2.97 cfs @ 12.31 hrs, Volume= 0.829 af
Outflow = 2.96 cfs @ 12.35 hrs, Volume= 0.829 af, Atten= 0%, Lag= 2.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.16 fps, Min. Travel Time= 1.2 min
Avg. Velocity = 1.57 fps, Avg. Travel Time= 3.3 min

Peak Storage= 221 cf @ 12.32 hrs
Average Depth at Peak Storage= 0.31'
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 49.35 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/' Top Width= 5.00'
Length= 310.0' Slope= 0.0806 '/'
Inlet Invert= 2,446.00', Outlet Invert= 2,421.00'



Summary for Reach R11.40: SWALE

Inflow Area = 0.903 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 5.94 cfs @ 12.04 hrs, Volume= 0.555 af
Outflow = 5.76 cfs @ 12.06 hrs, Volume= 0.555 af, Atten= 3%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.90 fps, Min. Travel Time= 0.7 min
Avg. Velocity = 2.40 fps, Avg. Travel Time= 2.2 min

Peak Storage= 235 cf @ 12.05 hrs
Average Depth at Peak Storage= 0.29'
Bank-Full Depth= 1.50' Flow Area= 7.5 sf, Capacity= 143.25 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 8.00'
Length= 310.0' Slope= 0.3226 '/
Inlet Invert= 2,430.00', Outlet Invert= 2,330.00'



Summary for Reach R2.7: SWALE

Inflow Area = 3.627 ac, 13.61% Impervious, Inflow Depth = 4.63" for 100-yr Local event
Inflow = 14.87 cfs @ 12.05 hrs, Volume= 1.399 af
Outflow = 13.37 cfs @ 12.14 hrs, Volume= 1.399 af, Atten= 10%, Lag= 5.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.26 fps, Min. Travel Time= 2.8 min
Avg. Velocity = 1.11 fps, Avg. Travel Time= 10.6 min

Peak Storage= 2,227 cf @ 12.09 hrs
Average Depth at Peak Storage= 0.85'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 81.81 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 705.0' Slope= 0.0298 '/
Inlet Invert= 2,213.00', Outlet Invert= 2,192.00'



Summary for Reach R3.1: SWALE

Inflow = 22.55 cfs @ 12.25 hrs, Volume= 0.581 af
Outflow = 22.25 cfs @ 12.27 hrs, Volume= 0.581 af, Atten= 1%, Lag= 1.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.43 fps, Min. Travel Time= 0.7 min
Avg. Velocity = 4.35 fps, Avg. Travel Time= 1.6 min

Peak Storage= 901 cf @ 12.26 hrs
Average Depth at Peak Storage= 0.65'
Bank-Full Depth= 1.50' Flow Area= 7.5 sf, Capacity= 123.06 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 8.00'
Length= 420.0' Slope= 0.2381 '/
Inlet Invert= 2,179.99', Outlet Invert= 2,080.00'



Summary for Reach R4.2: SWALE

Inflow Area = 15.597 ac, 8.50% Impervious, Inflow Depth = 4.41" for 100-yr Local event
Inflow = 52.83 cfs @ 12.12 hrs, Volume= 5.727 af
Outflow = 51.95 cfs @ 12.14 hrs, Volume= 5.727 af, Atten= 2%, Lag= 1.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.50 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 2.19 fps, Avg. Travel Time= 2.7 min

Peak Storage= 1,746 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.68'
Bank-Full Depth= 1.50' Flow Area= 13.5 sf, Capacity= 219.76 cfs

6.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 12.00'
Length= 350.0' Slope= 0.1771 '/
Inlet Invert= 2,280.00', Outlet Invert= 2,218.00'



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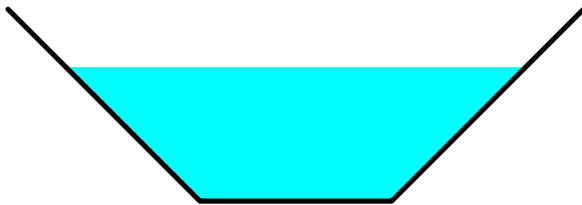
Summary for Reach R4.5: swale

Inflow Area = 30.234 ac, 12.20% Impervious, Inflow Depth = 4.38" for 100-yr Local event
Inflow = 49.42 cfs @ 12.21 hrs, Volume= 11.025 af
Outflow = 49.23 cfs @ 12.24 hrs, Volume= 11.025 af, Atten= 0%, Lag= 1.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.44 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 1.78 fps, Avg. Travel Time= 5.2 min

Peak Storage= 2,654 cf @ 12.22 hrs
Average Depth at Peak Storage= 1.40'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 100.17 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/ Top Width= 6.00'
Length= 560.0' Slope= 0.1071 '/
Inlet Invert= 2,065.00', Outlet Invert= 2,005.00'



Summary for Reach R4.7: swale

Inflow Area = 32.763 ac, 11.26% Impervious, Inflow Depth = 4.37" for 100-yr Local event
Inflow = 54.32 cfs @ 12.20 hrs, Volume= 11.919 af
Outflow = 54.30 cfs @ 12.20 hrs, Volume= 11.919 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 17.20 fps, Min. Travel Time= 0.1 min
Avg. Velocity = 3.07 fps, Avg. Travel Time= 0.3 min

Peak Storage= 189 cf @ 12.20 hrs
Average Depth at Peak Storage= 0.85'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 329.55 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 60.0' Slope= 0.4833 '/
Inlet Invert= 2,001.00', Outlet Invert= 1,972.00'



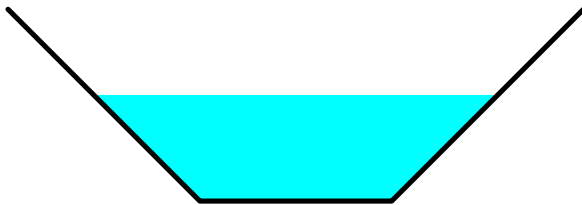
Summary for Reach R5.2: SWALE

Inflow Area = 8.776 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
Inflow = 34.86 cfs @ 12.06 hrs, Volume= 3.021 af
Outflow = 32.83 cfs @ 12.10 hrs, Volume= 3.021 af, Atten= 6%, Lag= 2.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.75 fps, Min. Travel Time= 1.1 min
Avg. Velocity = 3.39 fps, Avg. Travel Time= 3.1 min

Peak Storage= 2,199 cf @ 12.08 hrs
Average Depth at Peak Storage= 1.11'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 105.45 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/' Top Width= 6.00'
Length= 640.0' Slope= 0.1187 '/'
Inlet Invert= 1,822.00', Outlet Invert= 1,746.00'



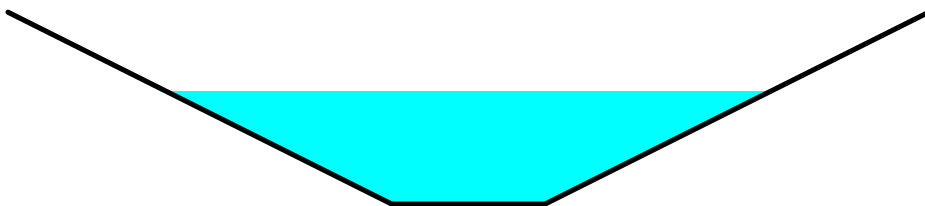
Summary for Reach R5.3: SWALE

Inflow Area = 12.491 ac, 2.66% Impervious, Inflow Depth = 4.25" for 100-yr Local event
Inflow = 46.69 cfs @ 12.10 hrs, Volume= 4.421 af
Outflow = 45.91 cfs @ 12.11 hrs, Volume= 4.421 af, Atten= 2%, Lag= 0.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.43 fps, Min. Travel Time= 0.5 min
Avg. Velocity = 1.56 fps, Avg. Travel Time= 2.0 min

Peak Storage= 1,360 cf @ 12.11 hrs
Average Depth at Peak Storage= 1.47'
Bank-Full Depth= 2.50' Flow Area= 17.5 sf, Capacity= 151.95 cfs

2.00' x 2.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/' Top Width= 12.00'
Length= 187.0' Slope= 0.0374 '/'
Inlet Invert= 1,745.00', Outlet Invert= 1,738.00'



Summary for Reach R8.16: SWALE

Inflow = 38.69 cfs @ 12.07 hrs, Volume= 4.293 af
Outflow = 37.43 cfs @ 12.09 hrs, Volume= 4.293 af, Atten= 3%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.89 fps, Min. Travel Time= 0.5 min
Avg. Velocity = 2.13 fps, Avg. Travel Time= 2.5 min

Peak Storage= 1,113 cf @ 12.07 hrs
Average Depth at Peak Storage= 0.66'
Bank-Full Depth= 1.50' Flow Area= 10.5 sf, Capacity= 178.88 cfs

4.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 315.0' Slope= 0.2159 '/
Inlet Invert= 1,810.00', Outlet Invert= 1,742.00'



Summary for Reach R8.17: SWALE

Inflow Area = 1.145 ac, 16.92% Impervious, Inflow Depth = 49.90" for 100-yr Local event
Inflow = 42.47 cfs @ 12.08 hrs, Volume= 4.762 af
Outflow = 42.29 cfs @ 12.10 hrs, Volume= 4.762 af, Atten= 0%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 11.20 fps, Min. Travel Time= 0.4 min
Avg. Velocity = 2.19 fps, Avg. Travel Time= 2.1 min

Peak Storage= 1,067 cf @ 12.09 hrs
Average Depth at Peak Storage= 0.70'
Bank-Full Depth= 1.50' Flow Area= 10.5 sf, Capacity= 176.73 cfs

4.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 280.0' Slope= 0.2107 '/
Inlet Invert= 1,741.00', Outlet Invert= 1,682.00'



Summary for Reach R8.18: Mountain stream

Inflow Area = 15.337 ac, 1.95% Impervious, Inflow Depth = 4.19" for 100-yr Local event
Inflow = 34.15 cfs @ 12.39 hrs, Volume= 5.360 af
Outflow = 33.89 cfs @ 12.46 hrs, Volume= 5.360 af, Atten= 1%, Lag= 4.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.21 fps, Min. Travel Time= 2.3 min
Avg. Velocity = 1.57 fps, Avg. Travel Time= 9.2 min

Peak Storage= 4,761 cf @ 12.42 hrs
Average Depth at Peak Storage= 1.14'
Bank-Full Depth= 2.00' Flow Area= 13.0 sf, Capacity= 109.52 cfs

2.50' x 2.00' deep channel, n= 0.080 Earth, long dense weeds
Side Slope Z-value= 2.0 '/ Top Width= 10.50'
Length= 870.0' Slope= 0.1736 '/
Inlet Invert= 1,818.00', Outlet Invert= 1,667.00'



Summary for Reach R8.2: SWALE

Inflow Area = 2.715 ac, 28.55% Impervious, Inflow Depth = 5.05" for 100-yr Local event
Inflow = 10.06 cfs @ 12.11 hrs, Volume= 1.141 af
Outflow = 9.64 cfs @ 12.15 hrs, Volume= 1.141 af, Atten= 4%, Lag= 2.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.75 fps, Min. Travel Time= 1.2 min
Avg. Velocity = 1.20 fps, Avg. Travel Time= 5.7 min

Peak Storage= 698 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.65'
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 46.39 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/ Top Width= 5.00'
Length= 407.0' Slope= 0.0713 '/
Inlet Invert= 2,303.00', Outlet Invert= 2,274.00'



Summary for Reach R8.21: SWALE

Inflow Area = 24.114 ac, 25.39% Impervious, Inflow Depth = 2.90" for 100-yr Local event
Inflow = 58.61 cfs @ 12.07 hrs, Volume= 5.820 af
Outflow = 56.43 cfs @ 12.09 hrs, Volume= 5.820 af, Atten= 4%, Lag= 1.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 13.44 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 2.57 fps, Avg. Travel Time= 3.4 min

Peak Storage= 2,239 cf @ 12.07 hrs
Average Depth at Peak Storage= 0.78'
Bank-Full Depth= 1.50' Flow Area= 10.5 sf, Capacity= 203.30 cfs

4.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/' Top Width= 10.00'
Length= 520.0' Slope= 0.2788 '/'
Inlet Invert= 1,815.00', Outlet Invert= 1,670.00'



Summary for Reach R8.4: SWALE

Inflow Area = 6.715 ac, 30.90% Impervious, Inflow Depth = 5.17" for 100-yr Local event
Inflow = 27.02 cfs @ 12.09 hrs, Volume= 2.895 af
Outflow = 26.20 cfs @ 12.13 hrs, Volume= 2.895 af, Atten= 3%, Lag= 2.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.27 fps, Min. Travel Time= 1.1 min
Avg. Velocity = 1.67 fps, Avg. Travel Time= 5.2 min

Peak Storage= 1,720 cf @ 12.11 hrs
Average Depth at Peak Storage= 1.07'
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 51.44 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/' Top Width= 5.00'
Length= 525.0' Slope= 0.0876 '/'
Inlet Invert= 2,270.00', Outlet Invert= 2,224.00'



Summary for Reach R8.6: SWALE

Inflow Area = 8.502 ac, 27.24% Impervious, Inflow Depth = 5.07" for 100-yr Local event
Inflow = 32.01 cfs @ 12.11 hrs, Volume= 3.589 af
Outflow = 31.46 cfs @ 12.13 hrs, Volume= 3.589 af, Atten= 2%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.55 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 1.95 fps, Avg. Travel Time= 3.0 min

Peak Storage= 1,153 cf @ 12.12 hrs
Average Depth at Peak Storage= 1.08'
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 59.17 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 1.0 '/ Top Width= 5.00'
Length= 345.0' Slope= 0.1159 '/
Inlet Invert= 2,220.00', Outlet Invert= 2,180.00'



Summary for Reach R9.10: Swale

Inflow Area = 12.954 ac, 25.61% Impervious, Inflow Depth = 5.06" for 100-yr Local event
Inflow = 19.08 cfs @ 12.45 hrs, Volume= 5.466 af
Outflow = 19.02 cfs @ 12.47 hrs, Volume= 5.466 af, Atten= 0%, Lag= 0.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Max. Velocity= 6.79 fps, Min. Travel Time= 0.4 min
Avg. Velocity = 1.42 fps, Avg. Travel Time= 2.0 min

Peak Storage= 476 cf @ 12.46 hrs
Average Depth at Peak Storage= 0.79'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 136.03 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 170.0' Slope= 0.0824 '/
Inlet Invert= 1,672.00', Outlet Invert= 1,658.00'



Summary for Reach R9.2: Swale

Inflow Area = 5.546 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
Inflow = 21.35 cfs @ 12.07 hrs, Volume= 1.909 af
Outflow = 19.79 cfs @ 12.16 hrs, Volume= 1.909 af, Atten= 7%, Lag= 5.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.41 fps, Min. Travel Time= 2.8 min
Avg. Velocity = 2.47 fps, Avg. Travel Time= 8.4 min

Peak Storage= 3,354 cf @ 12.11 hrs
Average Depth at Peak Storage= 0.76'
Bank-Full Depth= 1.50' Flow Area= 7.5 sf, Capacity= 80.39 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 8.00'
Length= 1,250.0' Slope= 0.1016 '/
Inlet Invert= 1,900.00', Outlet Invert= 1,773.00'



Summary for Reach R9.3: Swale

Inflow Area = 13.150 ac, 7.18% Impervious, Inflow Depth = 4.40" for 100-yr Local event
Inflow = 45.74 cfs @ 12.07 hrs, Volume= 4.817 af
Outflow = 43.58 cfs @ 12.13 hrs, Volume= 4.817 af, Atten= 5%, Lag= 4.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.53 fps, Min. Travel Time= 1.7 min
Avg. Velocity = 2.30 fps, Avg. Travel Time= 7.3 min

Peak Storage= 4,664 cf @ 12.10 hrs
Average Depth at Peak Storage= 1.11'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 158.64 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 '/ Top Width= 10.00'
Length= 1,000.0' Slope= 0.1120 '/
Inlet Invert= 1,768.00', Outlet Invert= 1,656.00'



Summary for Reach R9.4: Swale

Inflow Area = 5.118 ac, 41.21% Impervious, Inflow Depth = 5.54" for 100-yr Local event
 Inflow = 20.93 cfs @ 12.07 hrs, Volume= 2.364 af
 Outflow = 20.22 cfs @ 12.12 hrs, Volume= 2.364 af, Atten= 3%, Lag= 2.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Max. Velocity= 7.38 fps, Min. Travel Time= 1.2 min
 Avg. Velocity = 2.00 fps, Avg. Travel Time= 4.5 min

Peak Storage= 1,498 cf @ 12.09 hrs
 Average Depth at Peak Storage= 0.78'
 Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 148.51 cfs

2.00' x 2.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
 Side Slope Z-value= 2.0 '/' Top Width= 10.00'
 Length= 540.0' Slope= 0.0981 '/
 Inlet Invert= 1,769.00', Outlet Invert= 1,716.00'



Summary for Pond 6.2P: BIORETENTION

Inflow Area = 0.184 ac, 81.25% Impervious, Inflow Depth = 6.89" for 100-yr Local event
 Inflow = 1.18 cfs @ 12.04 hrs, Volume= 0.106 af
 Outflow = 0.97 cfs @ 12.09 hrs, Volume= 0.106 af, Atten= 18%, Lag= 3.0 min
 Primary = 0.97 cfs @ 12.09 hrs, Volume= 0.106 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 1,685.99' Surf.Area= 1,600 sf Storage= 799 cf
 Peak Elev= 1,686.67' @ 12.09 hrs Surf.Area= 3,252 sf Storage= 1,824 cf (1,026 cf above start)

Plug-Flow detention time= 380.3 min calculated for 0.087 af (83% of inflow)
 Center-of-Mass det. time= 200.7 min (967.4 - 766.7)

Volume	Invert	Avail.Storage	Storage Description
#1	1,681.00'	320 cf	stone underdrain (Prismatic) Listed below (Recalc) 800 cf Overall x 40.0% Voids
#2	1,682.00'	480 cf	filter media (Prismatic) Listed below (Recalc) 3,200 cf Overall x 15.0% Voids
#3	1,686.00'	3,550 cf	surface storage (Prismatic) Listed below (Recalc)
		4,350 cf	Total Available Storage

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Prepared by The LA group

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Page 428

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,681.00	800	0	0
1,682.00	800	800	800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,682.00	800	0	0
1,686.00	800	3,200	3,200

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,400	0	0
1,688.00	2,150	3,550	3,550

Device	Routing	Invert	Outlet Devices
#1	Primary	1,685.99'	0.500 in/hr Exfiltration over Surface area above 1,685.99' Excluded Surface area = 1,600 sf
#2	Primary	1,686.50'	5.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.96 cfs @ 12.09 hrs HW=1,686.67' (Free Discharge)

1=Exfiltration (Exfiltration Controls 0.02 cfs)

2=Broad-Crested Rectangular Weir (Weir Controls 0.94 cfs @ 1.11 fps)

Summary for Pond 6.3P: BIORETENTION

Inflow Area = 0.184 ac, 81.25% Impervious, Inflow Depth = 6.89" for 100-yr Local event
 Inflow = 1.18 cfs @ 12.04 hrs, Volume= 0.106 af
 Outflow = 0.97 cfs @ 12.09 hrs, Volume= 0.106 af, Atten= 18%, Lag= 3.0 min
 Primary = 0.97 cfs @ 12.09 hrs, Volume= 0.106 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Starting Elev= 1,685.99' Surf.Area= 1,600 sf Storage= 799 cf

Peak Elev= 1,686.67' @ 12.09 hrs Surf.Area= 3,252 sf Storage= 1,824 cf (1,026 cf above start)

Plug-Flow detention time= 380.3 min calculated for 0.087 af (83% of inflow)

Center-of-Mass det. time= 200.7 min (967.4 - 766.7)

Volume	Invert	Avail.Storage	Storage Description
#1	1,681.00'	320 cf	stone underdrain (Prismatic) Listed below (Recalc) 800 cf Overall x 40.0% Voids
#2	1,682.00'	480 cf	filter media (Prismatic) Listed below (Recalc) 3,200 cf Overall x 15.0% Voids
#3	1,686.00'	3,550 cf	surface storage (Prismatic) Listed below (Recalc)
		4,350 cf	Total Available Storage

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Prepared by The LA group

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Page 429

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,681.00	800	0	0
1,682.00	800	800	800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,682.00	800	0	0
1,686.00	800	3,200	3,200

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,400	0	0
1,688.00	2,150	3,550	3,550

Device	Routing	Invert	Outlet Devices
#1	Primary	1,685.99'	0.500 in/hr Exfiltration over Surface area above 1,685.99' Excluded Surface area = 1,600 sf
#2	Primary	1,686.50'	5.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.96 cfs @ 12.09 hrs HW=1,686.67' (Free Discharge)

1=Exfiltration (Exfiltration Controls 0.02 cfs)

2=Broad-Crested Rectangular Weir (Weir Controls 0.94 cfs @ 1.11 fps)

Summary for Pond 11.3R: DP11.1

Inflow Area = 35.275 ac, 0.39% Impervious, Inflow Depth = 4.15" for 100-yr Local event
 Inflow = 75.97 cfs @ 12.36 hrs, Volume= 12.186 af
 Outflow = 75.95 cfs @ 12.36 hrs, Volume= 12.179 af, Atten= 0%, Lag= 0.1 min
 Primary = 75.95 cfs @ 12.36 hrs, Volume= 12.179 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 2,413.22' @ 12.36 hrs Surf.Area= 332 sf Storage= 1,017 cf

Plug-Flow detention time= 2.3 min calculated for 12.179 af (100% of inflow)
 Center-of-Mass det. time= 0.7 min (873.6 - 872.9)

Volume	Invert	Avail.Storage	Storage Description
#1	2,410.00'	3,500 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,410.00	300	0	0
2,420.00	400	3,500	3,500

Device	Routing	Invert	Outlet Devices
#1	Primary	2,411.00'	72.0" Round Culvert X 2.00

L= 120.0' CPP, projecting, no headwall, Ke= 0.900
 Inlet / Outlet Invert= 2,411.00' / 2,395.00' S= 0.1333 '/ Cc= 0.900
 n= 0.025 Corrugated metal, Flow Area= 28.27 sf

Primary OutFlow Max=75.68 cfs @ 12.36 hrs HW=2,413.21' (Free Discharge)

↑1=Culvert (Inlet Controls 75.68 cfs @ 4.00 fps)

Summary for Pond 11.7R: Culvert

Inflow Area = 102.908 ac, 6.37% Impervious, Inflow Depth = 4.39" for 100-yr Local event
 Inflow = 217.64 cfs @ 12.33 hrs, Volume= 37.612 af
 Outflow = 217.64 cfs @ 12.33 hrs, Volume= 37.612 af, Atten= 0%, Lag= 0.0 min
 Primary = 217.64 cfs @ 12.33 hrs, Volume= 37.612 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,896.69' @ 12.33 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,890.00'	48.0" Round Culvert L= 45.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,890.00' / 1,888.00' S= 0.0444 '/ Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf
#2	Primary	1,895.00'	15.0' long x 35.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=217.02 cfs @ 12.33 hrs HW=1,896.68' (Free Discharge)

↑1=Culvert (Inlet Controls 130.93 cfs @ 10.42 fps)

↑2=Broad-Crested Rectangular Weir (Weir Controls 86.09 cfs @ 3.41 fps)

Summary for Pond 11.9R: Culvert

Inflow Area = 102.908 ac, 6.37% Impervious, Inflow Depth = 4.39" for 100-yr Local event
 Inflow = 216.84 cfs @ 12.35 hrs, Volume= 37.612 af
 Outflow = 216.40 cfs @ 12.36 hrs, Volume= 37.612 af, Atten= 0%, Lag= 0.6 min
 Primary = 216.40 cfs @ 12.36 hrs, Volume= 37.612 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,778.44' @ 12.36 hrs Surf.Area= 1,017 sf Storage= 4,939 cf

Plug-Flow detention time= 0.9 min calculated for 37.599 af (100% of inflow)
 Center-of-Mass det. time= 0.9 min (944.3 - 943.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,773.00'	10,000 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,773.00	800	0	0
1,783.00	1,200	10,000	10,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,773.00'	60.0" Round Culvert L= 90.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,773.00' / 1,767.00' S= 0.0667 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 19.63 sf
#2	Primary	1,773.00'	48.0" Round Culvert L= 90.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,773.00' / 1,770.00' S= 0.0333 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=216.13 cfs @ 12.36 hrs HW=1,778.43' (Free Discharge)

1=Culvert (Inlet Controls 127.70 cfs @ 6.50 fps)

2=Culvert (Inlet Controls 88.43 cfs @ 7.04 fps)

Summary for Pond P1.1: Pond 1.1

Inflow Area = 15.782 ac, 9.63% Impervious, Inflow Depth = 4.53" for 100-yr Local event
 Inflow = 54.40 cfs @ 12.09 hrs, Volume= 5.963 af
 Outflow = 32.38 cfs @ 12.30 hrs, Volume= 5.962 af, Atten= 40%, Lag= 12.4 min
 Primary = 32.38 cfs @ 12.30 hrs, Volume= 5.962 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Starting Elev= 2,159.55' Surf.Area= 11,012 sf Storage= 25,985 cf

Peak Elev= 2,164.24' @ 12.30 hrs Surf.Area= 22,070 sf Storage= 103,538 cf (77,553 cf above start)

Plug-Flow detention time= 386.5 min calculated for 5.364 af (90% of inflow)

Center-of-Mass det. time= 277.9 min (1,133.1 - 855.2)

Volume	Invert	Avail.Storage	Storage Description
#1	2,156.00'	120,626 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,156.00	3,831	0	0
2,158.00	7,673	11,504	11,504
2,160.00	11,982	19,655	31,159
2,162.00	16,663	28,645	59,804
2,164.00	21,746	38,409	98,213
2,165.00	23,079	22,413	120,626

Device	Routing	Invert	Outlet Devices
#1	Primary	2,158.50'	24.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,158.50' / 2,157.65' S= 0.0170 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf
#2	Device 1	2,159.55'	3.5" Vert. Orifice/Grate C= 0.600
#3	Primary	2,162.00'	24.0" W x 18.0" H Vert. Orifice/Grate C= 0.600
#4	Primary	2,163.75'	15.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=32.33 cfs @ 12.30 hrs HW=2,164.24' (Free Discharge)

- 1=Culvert (Passes 0.69 cfs of 31.33 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.69 cfs @ 10.27 fps)
- 3=Orifice/Grate (Orifice Controls 17.45 cfs @ 5.82 fps)
- 4=Broad-Crested Rectangular Weir (Weir Controls 14.19 cfs @ 1.92 fps)

Summary for Pond P1.2: BIORETENTION

Inflow Area = 0.244 ac, 81.20% Impervious, Inflow Depth = 6.78" for 100-yr Local event
 Inflow = 1.56 cfs @ 12.04 hrs, Volume= 0.138 af
 Outflow = 1.09 cfs @ 12.12 hrs, Volume= 0.138 af, Atten= 30%, Lag= 4.7 min
 Primary = 1.09 cfs @ 12.12 hrs, Volume= 0.138 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,226.99' Surf.Area= 4,000 sf Storage= 1,997 cf
 Peak Elev= 2,227.72' @ 12.12 hrs Surf.Area= 6,575 sf Storage= 3,645 cf (1,648 cf above start)

Plug-Flow detention time= 529.9 min calculated for 0.092 af (67% of inflow)
 Center-of-Mass det. time= 222.0 min (993.8 - 771.8)

Volume	Invert	Avail.Storage	Storage Description
#1	2,222.00'	800 cf	stone underdrain (Prismatic) Listed below (Recalc) 2,000 cf Overall x 40.0% Voids
#2	2,223.00'	1,200 cf	filter media (Prismatic) Listed below (Recalc) 8,000 cf Overall x 15.0% Voids
#3	2,227.00'	5,600 cf	surface storage (Prismatic) Listed below (Recalc)
		7,600 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,222.00	2,000	0	0
2,223.00	2,000	2,000	2,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,223.00	2,000	0	0
2,227.00	2,000	8,000	8,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,227.00	2,000	0	0
2,229.00	3,600	5,600	5,600

Device	Routing	Invert	Outlet Devices
#1	Primary	2,226.99'	0.500 in/hr Exfiltration over Surface area above 2,226.99' Excluded Surface area = 4,000 sf
#2	Primary	2,227.50'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.06 cfs @ 12.12 hrs HW=2,227.72' (Free Discharge)

1=Exfiltration (Exfiltration Controls 0.03 cfs)

2=Orifice/Grate (Weir Controls 1.03 cfs @ 1.52 fps)

Summary for Pond P1.3: Pond 1.3

Inflow Area = 25.678 ac, 13.90% Impervious, Inflow Depth = 4.60" for 100-yr Local event
 Inflow = 72.75 cfs @ 12.16 hrs, Volume= 9.851 af
 Outflow = 35.22 cfs @ 12.57 hrs, Volume= 9.847 af, Atten= 52%, Lag= 24.6 min
 Primary = 35.22 cfs @ 12.57 hrs, Volume= 9.847 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,164.09' Surf.Area= 14,529 sf Storage= 40,390 cf
 Peak Elev= 2,170.27' @ 12.57 hrs Surf.Area= 32,542 sf Storage= 185,271 cf (144,881 cf above start)

Plug-Flow detention time= 412.2 min calculated for 8.920 af (91% of inflow)
 Center-of-Mass det. time= 297.1 min (1,169.6 - 872.5)

Volume	Invert	Avail.Storage	Storage Description
#1	2,160.00'	209,531 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,160.00	5,797	0	0
2,162.00	9,507	15,304	15,304
2,164.00	14,282	23,789	39,093
2,166.00	19,778	34,060	73,153
2,168.00	25,800	45,578	118,731
2,170.00	32,000	57,800	176,531
2,171.00	34,000	33,000	209,531

Device	Routing	Invert	Outlet Devices
#1	Primary	2,162.00'	36.0" Round Culvert L= 1.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,162.00' / 2,162.00' S= 0.0000 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Device 1	2,164.10'	4.5" Vert. Orifice/Grate C= 0.600
#3	Device 1	2,167.25'	36.0" W x 12.0" H Vert. Orifice/Grate C= 0.600
#4	Primary	2,170.00'	30.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=34.87 cfs @ 12.57 hrs HW=2,170.27' (Free Discharge)

1=Culvert (Passes 24.19 cfs of 88.54 cfs potential flow)

2=Orifice/Grate (Orifice Controls 1.30 cfs @ 11.78 fps)

3=Orifice/Grate (Orifice Controls 22.88 cfs @ 7.63 fps)

4=Broad-Crested Rectangular Weir (Weir Controls 10.68 cfs @ 1.33 fps)

Summary for Pond P1.4: BIORETENTION

Inflow Area = 1.185 ac, 77.14% Impervious, Inflow Depth = 6.66" for 100-yr Local event
 Inflow = 7.18 cfs @ 12.04 hrs, Volume= 0.657 af
 Outflow = 2.63 cfs @ 12.26 hrs, Volume= 0.657 af, Atten= 63%, Lag= 12.9 min
 Primary = 2.63 cfs @ 12.26 hrs, Volume= 0.657 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,213.99' Surf.Area= 19,000 sf Storage= 9,486 cf
 Peak Elev= 2,214.94' @ 12.26 hrs Surf.Area= 29,605 sf Storage= 18,951 cf (9,466 cf above start)

Plug-Flow detention time= 553.2 min calculated for 0.439 af (67% of inflow)
 Center-of-Mass det. time= 228.5 min (986.0 - 757.5)

Volume	Invert	Avail.Storage	Storage Description
#1	2,209.00'	3,800 cf	stone underdrain (Prismatic) Listed below (Recalc) 9,500 cf Overall x 40.0% Voids
#2	2,210.00'	5,700 cf	filter media (Prismatic) Listed below (Recalc) 38,000 cf Overall x 15.0% Voids
#3	2,214.00'	21,350 cf	surface storage (Prismatic) Listed below (Recalc)
		30,850 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,209.00	9,500	0	0
2,210.00	9,500	9,500	9,500

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,210.00	9,500	0	0
2,214.00	9,500	38,000	38,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,214.00	9,500	0	0
2,216.00	11,850	21,350	21,350

Device	Routing	Invert	Outlet Devices
#1	Primary	2,209.00'	18.0" Round Culvert L= 325.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,209.00' / 2,208.50' S= 0.0015 1/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 1.77 sf
#2	Primary	2,213.99'	0.500 in/hr Exfiltration over Surface area above 2,213.99' Excluded Surface area = 19,000 sf
#3	Device 1	2,214.50'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Primary	2,215.50'	25.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=2.63 cfs @ 12.26 hrs HW=2,214.94' (Free Discharge)

- 1=Culvert (Passes 2.51 cfs of 7.99 cfs potential flow)
- 3=Orifice/Grate (Orifice Controls 2.51 cfs @ 3.19 fps)
- 2=Exfiltration (Exfiltration Controls 0.12 cfs)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.1: P-1

Inflow Area = 13.491 ac, 29.33% Impervious, Inflow Depth = 5.24" for 100-yr Local event
 Inflow = 47.40 cfs @ 12.07 hrs, Volume= 5.887 af
 Outflow = 20.89 cfs @ 12.47 hrs, Volume= 5.885 af, Atten= 56%, Lag= 24.3 min
 Primary = 20.89 cfs @ 12.47 hrs, Volume= 5.885 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 2,298.39' Surf.Area= 9,776 sf Storage= 24,777 cf
 Peak Elev= 2,303.48' @ 12.47 hrs Surf.Area= 25,173 sf Storage= 111,438 cf (86,661 cf above start)

Plug-Flow detention time= 501.9 min calculated for 5.316 af (90% of inflow)
 Center-of-Mass det. time= 367.4 min (1,234.4 - 867.0)

Volume	Invert	Avail.Storage	Storage Description
#1	2,294.00'	153,289 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,294.00	2,442	0	0
2,296.00	4,967	7,409	7,409
2,298.00	8,782	13,749	21,158
2,300.00	13,877	22,659	43,817
2,302.00	20,200	34,077	77,894
2,304.00	26,926	47,126	125,020
2,305.00	29,612	28,269	153,289

Device	Routing	Invert	Outlet Devices
#1	Primary	2,295.50'	24.0" Round Culvert L= 60.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,295.50' / 2,292.50' S= 0.0500 1/1 Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf
#2	Device 1	2,298.40'	3.5" Vert. Orifice/Grate C= 0.600
#3	Device 1	2,301.25'	18.0" W x 6.0" H Vert. Orifice/Grate C= 0.600
#4	Device 1	2,302.25'	24.0" W x 12.0" H Vert. Orifice/Grate C= 0.600
#5	Primary	2,303.25'	25.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=20.71 cfs @ 12.47 hrs HW=2,303.48' (Free Discharge)

- 1=Culvert (Passes 13.82 cfs of 39.96 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.71 cfs @ 10.69 fps)
- 3=Orifice/Grate (Orifice Controls 5.07 cfs @ 6.77 fps)
- 4=Orifice/Grate (Orifice Controls 8.03 cfs @ 4.02 fps)
- 5=Broad-Crested Rectangular Weir (Weir Controls 6.89 cfs @ 1.21 fps)

Summary for Pond P11.10: DRY SWALE

Inflow Area = 1.136 ac, 14.06% Impervious, Inflow Depth = 4.69" for 100-yr Local event
 Inflow = 5.45 cfs @ 12.04 hrs, Volume= 0.444 af
 Outflow = 4.86 cfs @ 12.07 hrs, Volume= 0.444 af, Atten= 11%, Lag= 1.9 min
 Primary = 4.86 cfs @ 12.07 hrs, Volume= 0.444 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,193.37' @ 12.07 hrs Surf.Area= 2,569 sf Storage= 2,230 cf

Plug-Flow detention time= 154.8 min calculated for 0.444 af (100% of inflow)
 Center-of-Mass det. time= 155.7 min (991.3 - 835.5)

Volume	Invert	Avail.Storage	Storage Description
#1	2,192.00'	2,580 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,192.00	690	0	0
2,193.50	2,750	2,580	2,580

Device	Routing	Invert	Outlet Devices
#1	Primary	2,192.00'	0.250 in/hr Exfiltration over Surface area
#2	Primary	2,193.00'	8.0' long x 1.0' breadth Broad-Crested Rectangular Weir
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00
			Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=4.69 cfs @ 12.07 hrs HW=2,193.36' (Free Discharge)

- 1=Exfiltration (Exfiltration Controls 0.01 cfs)
- 2=Broad-Crested Rectangular Weir (Weir Controls 4.67 cfs @ 1.63 fps)

Summary for Pond P11.11: BIORETENTION

Inflow Area = 1.621 ac, 9.86% Impervious, Inflow Depth = 4.56" for 100-yr Local event
 Inflow = 6.43 cfs @ 12.08 hrs, Volume= 0.616 af
 Outflow = 3.56 cfs @ 12.26 hrs, Volume= 0.615 af, Atten= 45%, Lag= 11.1 min
 Primary = 3.56 cfs @ 12.26 hrs, Volume= 0.615 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

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Page 437

Starting Elev= 2,181.99' Surf.Area= 7,600 sf Storage= 3,794 cf
 Peak Elev= 2,183.66' @ 12.26 hrs Surf.Area= 12,355 sf Storage= 10,907 cf (7,112 cf above start)

Plug-Flow detention time= 339.8 min calculated for 0.528 af (86% of inflow)
 Center-of-Mass det. time= 133.8 min (1,086.5 - 952.8)

Volume	Invert	Avail.Storage	Storage Description
#1	2,177.00'	1,520 cf	gravel underdrain (Prismatic) Listed below (Recalc) 3,800 cf Overall x 40.0% Voids
#2	2,178.00'	2,280 cf	filter media (Prismatic) Listed below (Recalc) 15,200 cf Overall x 15.0% Voids
#3	2,182.00'	8,750 cf	surface storage (Prismatic) Listed below (Recalc)
		12,550 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,177.00	3,800	0	0
2,178.00	3,800	3,800	3,800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,178.00	3,800	0	0
2,182.00	3,800	15,200	15,200

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,182.00	3,800	0	0
2,184.00	4,950	8,750	8,750

Device	Routing	Invert	Outlet Devices
#1	Primary	2,181.99'	0.500 in/hr Exfiltration over Surface area above 2,181.99' Excluded Surface area = 7,600 sf
#2	Primary	2,182.50'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	2,183.50'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=3.48 cfs @ 12.26 hrs HW=2,183.66' (Free Discharge)

- 1=Exfiltration (Exfiltration Controls 0.06 cfs)
- 2=Orifice/Grate (Orifice Controls 1.02 cfs @ 5.18 fps)
- 3=Broad-Crested Rectangular Weir (Weir Controls 2.41 cfs @ 1.01 fps)

Summary for Pond P11.12: BIORETENTION

Inflow Area = 1.366 ac, 60.26% Impervious, Inflow Depth = 6.19" for 100-yr Local event
 Inflow = 8.28 cfs @ 12.04 hrs, Volume= 0.705 af
 Outflow = 9.67 cfs @ 12.04 hrs, Volume= 0.803 af, Atten= 0%, Lag= 0.0 min
 Primary = 9.67 cfs @ 12.04 hrs, Volume= 0.803 af

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Page 438

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,410.99' Surf.Area= 8,000 sf Storage= 3,994 cf
 Peak Elev= 2,514.63' @ 12.04 hrs Surf.Area= 12,800 sf Storage= 8,400 cf (4,406 cf above start)

Plug-Flow detention time= 123.6 min calculated for 0.704 af (100% of inflow)
 Center-of-Mass det. time= 96.4 min (889.6 - 793.2)

Volume	Invert	Avail.Storage	Storage Description
#1	2,406.00'	1,600 cf	DRAINAGE LAYER (Prismatic) Listed below (Recalc) 4,000 cf Overall x 40.0% Voids
#2	2,407.00'	2,400 cf	FILTER MEDIA (Prismatic) Listed below (Recalc) 16,000 cf Overall x 15.0% Voids
#3	2,411.00'	4,400 cf	surface storage (Prismatic) Listed below (Recalc)
		8,400 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,406.00	4,000	0	0
2,407.00	4,000	4,000	4,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,407.00	4,000	0	0
2,411.00	4,000	16,000	16,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,411.00	4,000	0	0
2,412.00	4,800	4,400	4,400

Device	Routing	Invert	Outlet Devices
#1	Primary	2,411.50'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	2,410.99'	0.500 in/hr Exfiltration over Surface area above 2,410.99' Excluded Surface area = 8,000 sf

Primary OutFlow Max=9.44 cfs @ 12.04 hrs HW=2,510.10' (Free Discharge)

1=Orifice/Grate (Orifice Controls 9.39 cfs @ 47.81 fps)

2=Exfiltration (Exfiltration Controls 0.06 cfs)

Summary for Pond P11.14: BIORETENTION

Inflow Area = 0.597 ac, 65.96% Impervious, Inflow Depth = 6.42" for 100-yr Local event
 Inflow = 3.70 cfs @ 12.04 hrs, Volume= 0.319 af
 Outflow = 1.64 cfs @ 12.10 hrs, Volume= 0.301 af, Atten= 56%, Lag= 3.9 min
 Primary = 1.64 cfs @ 12.10 hrs, Volume= 0.301 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,410.99' Surf.Area= 8,000 sf Storage= 3,994 cf
 Peak Elev= 2,414.29' @ 12.10 hrs Surf.Area= 12,800 sf Storage= 8,400 cf (4,406 cf above start)

Plug-Flow detention time= 509.4 min calculated for 0.210 af (66% of inflow)

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Page 439

Center-of-Mass det. time= 225.3 min (1,010.5 - 785.2)

Volume	Invert	Avail.Storage	Storage Description
#1	2,406.00'	1,600 cf	DRAINAGE LAYER (Prismatic) Listed below (Recalc) 4,000 cf Overall x 40.0% Voids
#2	2,407.00'	2,400 cf	FILTER MEDIA (Prismatic) Listed below (Recalc) 16,000 cf Overall x 15.0% Voids
#3	2,411.00'	4,400 cf	surface storage (Prismatic) Listed below (Recalc)
		8,400 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,406.00	4,000	0	0
2,407.00	4,000	4,000	4,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,407.00	4,000	0	0
2,411.00	4,000	16,000	16,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,411.00	4,000	0	0
2,412.00	4,800	4,400	4,400

Device	Routing	Invert	Outlet Devices
#1	Primary	2,411.50'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	2,410.99'	0.500 in/hr Exfiltration over Surface area above 2,410.99' Excluded Surface area = 8,000 sf

Primary OutFlow Max=1.58 cfs @ 12.10 hrs HW=2,414.11' (Free Discharge)

1=Orifice/Grate (Orifice Controls 1.53 cfs @ 7.77 fps)

2=Exfiltration (Exfiltration Controls 0.06 cfs)

Summary for Pond P11.2: BIORETENTION

Inflow Area = 2.158 ac, 41.85% Impervious, Inflow Depth = 5.49" for 100-yr Local event
 Inflow = 11.02 cfs @ 12.05 hrs, Volume= 0.987 af
 Outflow = 3.32 cfs @ 12.37 hrs, Volume= 0.987 af, Atten= 70%, Lag= 19.3 min
 Primary = 3.32 cfs @ 12.37 hrs, Volume= 0.987 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Starting Elev= 2,371.99' Surf.Area= 21,000 sf Storage= 10,484 cf

Peak Elev= 2,373.21' @ 12.37 hrs Surf.Area= 33,535 sf Storage= 24,387 cf (13,902 cf above start)

Plug-Flow detention time= 417.6 min calculated for 0.746 af (76% of inflow)

Center-of-Mass det. time= 186.5 min (977.1 - 790.6)

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Page 440

Volume	Invert	Avail.Storage	Storage Description
#1	2,367.00'	4,200 cf	stone underdrain (Prismatic) Listed below (Recalc) 10,500 cf Overall x 40.0% Voids
#2	2,368.00'	6,300 cf	filter media (Prismatic) Listed below (Recalc) 42,000 cf Overall x 15.0% Voids
#3	2,372.00'	24,376 cf	surface storage (Prismatic) Listed below (Recalc)
		34,876 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,367.00	10,500	0	0
2,368.00	10,500	10,500	10,500

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,368.00	10,500	0	0
2,372.00	10,500	42,000	42,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,372.00	10,500	0	0
2,374.00	13,876	24,376	24,376

Device	Routing	Invert	Outlet Devices
#1	Primary	2,367.00'	12.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,367.00' / 2,366.00' S= 0.0200 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf
#2	Device 1	2,371.99'	0.500 in/hr Exfiltration over Surface area above 2,371.99' Excluded Surface area = 21,000 sf
#3	Device 1	2,372.50'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Primary	2,373.25'	15.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=3.32 cfs @ 12.37 hrs HW=2,373.21' (Free Discharge)

- 1=Culvert (Passes 3.32 cfs of 6.87 cfs potential flow)
- 2=Exfiltration (Exfiltration Controls 0.15 cfs)
- 3=Orifice/Grate (Orifice Controls 3.18 cfs @ 4.04 fps)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.4: BIORETENTION

Inflow Area = 1.520 ac, 70.97% Impervious, Inflow Depth = 6.54" for 100-yr Local event
 Inflow = 9.54 cfs @ 12.04 hrs, Volume= 0.828 af
 Outflow = 2.97 cfs @ 12.31 hrs, Volume= 0.829 af, Atten= 69%, Lag= 16.4 min
 Primary = 2.97 cfs @ 12.31 hrs, Volume= 0.829 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

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Page 441

Starting Elev= 2,457.99' Surf.Area= 22,000 sf Storage= 10,983 cf
 Peak Elev= 2,459.06' @ 12.31 hrs Surf.Area= 34,890 sf Storage= 23,609 cf (12,625 cf above start)

Plug-Flow detention time= 496.4 min calculated for 0.576 af (70% of inflow)
 Center-of-Mass det. time= 220.7 min (1,001.6 - 781.0)

Volume	Invert	Avail.Storage	Storage Description
#1	2,453.00'	4,400 cf	STONE LAYER (Prismatic) Listed below (Recalc) 11,000 cf Overall x 40.0% Voids
#2	2,454.00'	6,600 cf	FILTER MEDIA (Prismatic) Listed below (Recalc) 44,000 cf Overall x 15.0% Voids
#3	2,458.00'	25,580 cf	surface storage (Prismatic) Listed below (Recalc)
		36,580 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,453.00	11,000	0	0
2,454.00	11,000	11,000	11,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,454.00	11,000	0	0
2,458.00	11,000	44,000	44,000

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,458.00	11,000	0	0
2,460.00	14,580	25,580	25,580

Device	Routing	Invert	Outlet Devices
#1	Primary	2,453.00'	12.0" Round Culvert L= 175.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,453.00' / 2,447.00' S= 0.0343 1/8" Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf
#2	Device 1	2,458.50'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	2,457.99'	0.500 in/hr Exfiltration over Surface area above 2,457.99' Excluded Surface area = 22,000 sf

Primary OutFlow Max=2.97 cfs @ 12.31 hrs HW=2,459.06' (Free Discharge)

- 1=Culvert (Passes 2.97 cfs of 5.50 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 2.82 cfs @ 3.59 fps)
- 3=Exfiltration (Exfiltration Controls 0.15 cfs)

Summary for Pond P11.6: DRY SWALE

Inflow Area = 0.138 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.91 cfs @ 12.04 hrs, Volume= 0.085 af
 Outflow = 0.81 cfs @ 12.07 hrs, Volume= 0.085 af, Atten= 11%, Lag= 1.9 min
 Primary = 0.81 cfs @ 12.07 hrs, Volume= 0.085 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

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Page 442

Peak Elev= 2,483.10' @ 12.07 hrs Surf.Area= 1,631 sf Storage= 1,168 cf

Plug-Flow detention time= 593.6 min calculated for 0.085 af (100% of inflow)
Center-of-Mass det. time= 593.3 min (1,335.6 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	2,482.00'	1,911 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,482.00	500	0	0
2,483.50	2,048	1,911	1,911

Device	Routing	Invert	Outlet Devices
#1	Primary	2,482.00'	0.250 in/hr Exfiltration over Surface area
#2	Primary	2,483.00'	10.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.78 cfs @ 12.07 hrs HW=2,483.09' (Free Discharge)

1=Exfiltration (Exfiltration Controls 0.01 cfs)

2=Broad-Crested Rectangular Weir (Weir Controls 0.77 cfs @ 0.82 fps)

Summary for Pond P11.7: BIORETENTION

Inflow Area = 0.655 ac, 58.70% Impervious, Inflow Depth = 6.19" for 100-yr Local event
Inflow = 3.97 cfs @ 12.04 hrs, Volume= 0.338 af
Outflow = 1.59 cfs @ 12.23 hrs, Volume= 0.338 af, Atten= 60%, Lag= 11.3 min
Primary = 1.59 cfs @ 12.23 hrs, Volume= 0.338 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Starting Elev= 2,247.99' Surf.Area= 9,100 sf Storage= 4,543 cf
Peak Elev= 2,249.05' @ 12.23 hrs Surf.Area= 14,306 sf Storage= 9,671 cf (5,128 cf above start)

Plug-Flow detention time= 496.9 min calculated for 0.234 af (69% of inflow)
Center-of-Mass det. time= 220.7 min (1,013.9 - 793.2)

Volume	Invert	Avail.Storage	Storage Description
#1	2,243.00'	1,820 cf	gravel drainage layer (Prismatic) Listed below (Recalc) 4,550 cf Overall x 40.0% Voids
#2	2,244.00'	2,730 cf	filter media (Prismatic) Listed below (Recalc) 18,200 cf Overall x 15.0% Voids
#3	2,248.00'	10,350 cf	surface storage (Prismatic) Listed below (Recalc)
		14,900 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,243.00	4,550	0	0
2,244.00	4,550	4,550	4,550

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Page 443

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,244.00	4,550	0	0
2,248.00	4,550	18,200	18,200

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,248.00	4,550	0	0
2,250.00	5,800	10,350	10,350

Device	Routing	Invert	Outlet Devices
#1	Primary	2,243.00'	18.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,243.00' / 2,240.00' S= 0.0600 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 1.77 sf
#2	Device 1	2,247.99'	0.500 in/hr Exfiltration over Surface area above 2,247.99' Excluded Surface area = 9,100 sf
#3	Device 1	2,248.50'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Primary	2,249.00'	25.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=1.45 cfs @ 12.23 hrs HW=2,249.05' (Free Discharge)

- 1=Culvert (Passes 0.76 cfs of 19.59 cfs potential flow)
- 2=Exfiltration (Exfiltration Controls 0.06 cfs)
- 3=Orifice/Grate (Orifice Controls 0.70 cfs @ 3.57 fps)
- 4=Broad-Crested Rectangular Weir (Weir Controls 0.69 cfs @ 0.56 fps)

Summary for Pond P11.8: BIORETENTION

Inflow Area = 0.365 ac, 78.17% Impervious, Inflow Depth = 6.78" for 100-yr Local event
 Inflow = 2.33 cfs @ 12.04 hrs, Volume= 0.206 af
 Outflow = 0.68 cfs @ 12.34 hrs, Volume= 0.206 af, Atten= 71%, Lag= 18.2 min
 Primary = 0.68 cfs @ 12.34 hrs, Volume= 0.206 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,259.99' Surf.Area= 6,150 sf Storage= 3,070 cf
 Peak Elev= 2,260.96' @ 12.34 hrs Surf.Area= 9,691 sf Storage= 6,238 cf (3,168 cf above start)

Plug-Flow detention time= 548.5 min calculated for 0.136 af (66% of inflow)
 Center-of-Mass det. time= 231.2 min (1,003.0 - 771.8)

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Page 444

Volume	Invert	Avail.Storage	Storage Description
#1	2,255.00'	1,230 cf	gravel underdrain (Prismatic) Listed below (Recalc) 3,075 cf Overall x 40.0% Voids
#2	2,256.00'	1,845 cf	filter media (Prismatic) Listed below (Recalc) 12,300 cf Overall x 15.0% Voids
#3	2,260.00'	7,125 cf	surface storage (Prismatic) Listed below (Recalc)
		10,200 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,255.00	3,075	0	0
2,256.00	3,075	3,075	3,075

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,256.00	3,075	0	0
2,260.00	3,075	12,300	12,300

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,260.00	3,075	0	0
2,262.00	4,050	7,125	7,125

Device	Routing	Invert	Outlet Devices
#1	Primary	2,255.00'	12.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,255.00' / 2,254.50' S= 0.0100 1/1' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf
#2	Device 1	2,259.99'	0.500 in/hr Exfiltration over Surface area above 2,259.99' Excluded Surface area = 6,150 sf
#3	Device 1	2,260.50'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Primary	2,261.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.68 cfs @ 12.34 hrs HW=2,260.96' (Free Discharge)

- 1=Culvert (Passes 0.68 cfs of 6.45 cfs potential flow)
- 2=Exfiltration (Exfiltration Controls 0.04 cfs)
- 3=Orifice/Grate (Orifice Controls 0.64 cfs @ 3.25 fps)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11.9: BIORETENTION

Inflow Area = 0.575 ac, 22.45% Impervious, Inflow Depth = 5.15" for 100-yr Local event
 Inflow = 3.00 cfs @ 12.04 hrs, Volume= 0.246 af
 Outflow = 2.63 cfs @ 12.08 hrs, Volume= 0.246 af, Atten= 12%, Lag= 2.4 min
 Primary = 2.63 cfs @ 12.08 hrs, Volume= 0.246 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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Page 445

Starting Elev= 2,218.99' Surf.Area= 3,680 sf Storage= 1,837 cf
 Peak Elev= 2,219.71' @ 12.08 hrs Surf.Area= 6,399 sf Storage= 3,655 cf (1,818 cf above start)

Plug-Flow detention time= 288.5 min calculated for 0.204 af (83% of inflow)
 Center-of-Mass det. time= 142.4 min (966.0 - 823.7)

Volume	Invert	Avail.Storage	Storage Description
#1	2,214.00'	736 cf	gravel drainage layer (Prismatic) Listed below (Recalc) 1,840 cf Overall x 40.0% Voids
#2	2,215.00'	1,104 cf	filter media (Prismatic) Listed below (Recalc) 7,360 cf Overall x 15.0% Voids
#3	2,219.00'	5,700 cf	surface storage (Prismatic) Listed below (Recalc)
		7,540 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,214.00	1,840	0	0
2,215.00	1,840	1,840	1,840

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,215.00	1,840	0	0
2,219.00	1,840	7,360	7,360

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,219.00	2,400	0	0
2,221.00	3,300	5,700	5,700

Device	Routing	Invert	Outlet Devices
#1	Primary	2,218.99'	0.500 in/hr Exfiltration over Surface area above 2,218.99' Excluded Surface area = 3,680 sf
#2	Primary	2,219.50'	10.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=2.54 cfs @ 12.08 hrs HW=2,219.71' (Free Discharge)

1=Exfiltration (Exfiltration Controls 0.03 cfs)

2=Broad-Crested Rectangular Weir (Weir Controls 2.51 cfs @ 1.22 fps)

Summary for Pond P12.1: Pond 12.1

Inflow Area = 6.530 ac, 24.64% Impervious, Inflow Depth = 5.12" for 100-yr Local event
 Inflow = 27.88 cfs @ 12.08 hrs, Volume= 2.785 af
 Outflow = 4.95 cfs @ 12.72 hrs, Volume= 2.782 af, Atten= 82%, Lag= 38.1 min
 Primary = 4.95 cfs @ 12.72 hrs, Volume= 2.782 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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Page 446

Starting Elev= 2,296.49' Surf.Area= 8,129 sf Storage= 13,732 cf
Peak Elev= 2,300.54' @ 12.72 hrs Surf.Area= 18,444 sf Storage= 66,985 cf (53,253 cf above start)

Plug-Flow detention time= 562.7 min calculated for 2.466 af (89% of inflow)
Center-of-Mass det. time= 418.6 min (1,262.3 - 843.7)

Volume	Invert	Avail.Storage	Storage Description
#1	2,294.00'	120,048 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,294.00	3,070	0	0
2,296.00	6,964	10,034	10,034
2,298.00	11,720	18,684	28,718
2,300.00	16,919	28,639	57,357
2,302.00	22,520	39,439	96,796
2,303.00	23,983	23,252	120,048

Device	Routing	Invert	Outlet Devices
#1	Primary	2,294.00'	24.0" Round Culvert L= 350.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,294.00' / 2,276.00' S= 0.0514 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf
#2	Device 1	2,296.50'	3.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	2,298.75'	18.0" W x 6.0" H Vert. Orifice/Grate C= 0.600
#4	Primary	2,301.00'	10.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=4.95 cfs @ 12.72 hrs HW=2,300.54' (Free Discharge)

- 1=Culvert (Passes 4.95 cfs of 34.81 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.47 cfs @ 9.53 fps)
- 3=Orifice/Grate (Orifice Controls 4.48 cfs @ 5.98 fps)
- 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P2.1: Pond 2.1

Inflow Area = 16.159 ac, 17.05% Impervious, Inflow Depth = 4.72" for 100-yr Local event
 Inflow = 55.78 cfs @ 12.08 hrs, Volume= 6.359 af
 Outflow = 20.47 cfs @ 12.54 hrs, Volume= 6.354 af, Atten= 63%, Lag= 27.2 min
 Primary = 20.47 cfs @ 12.54 hrs, Volume= 6.354 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 2,182.99' Surf.Area= 13,676 sf Storage= 30,438 cf
 Peak Elev= 2,187.92' @ 12.54 hrs Surf.Area= 26,760 sf Storage= 128,915 cf (98,477 cf above start)

Plug-Flow detention time= 454.5 min calculated for 5.654 af (89% of inflow)
 Center-of-Mass det. time= 327.0 min (1,172.6 - 845.5)

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Page 447

Volume	Invert	Avail.Storage	Storage Description
#1	2,180.00'	159,675 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,180.00	6,775	0	0
2,182.00	11,300	18,075	18,075
2,184.00	16,100	27,400	45,475
2,186.00	21,300	37,400	82,875
2,188.00	27,000	48,300	131,175
2,189.00	30,000	28,500	159,675

Device	Routing	Invert	Outlet Devices
#1	Primary	2,183.00'	36.0" Round Culvert L= 200.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,183.00' / 2,180.00' S= 0.0150 1/1' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Device 1	2,183.00'	4.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	2,185.50'	18.0" W x 6.0" H Vert. Orifice/Grate C= 0.600
#4	Device 1	2,186.00'	30.0" W x 12.0" H Vert. Orifice/Grate C= 0.600
#5	Primary	2,188.00'	10.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=20.47 cfs @ 12.54 hrs HW=2,187.91' (Free Discharge)

- 1=Culvert (Passes 20.47 cfs of 56.60 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.92 cfs @ 10.49 fps)
- 3=Orifice/Grate (Orifice Controls 5.31 cfs @ 7.08 fps)
- 4=Orifice/Grate (Orifice Controls 14.24 cfs @ 5.70 fps)
- 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P4.1: P-1

Inflow Area = 26.676 ac, 13.82% Impervious, Inflow Depth = 4.64" for 100-yr Local event
 Inflow = 90.61 cfs @ 12.10 hrs, Volume= 10.318 af
 Outflow = 65.28 cfs @ 12.25 hrs, Volume= 10.315 af, Atten= 28%, Lag= 9.4 min
 Primary = 42.73 cfs @ 12.25 hrs, Volume= 9.733 af
 Secondary = 22.55 cfs @ 12.25 hrs, Volume= 0.581 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 2,185.50' Surf.Area= 14,800 sf Storage= 41,775 cf
 Peak Elev= 2,190.30' @ 12.25 hrs Surf.Area= 29,735 sf Storage= 146,712 cf (104,937 cf above start)

Plug-Flow detention time= 368.9 min calculated for 9.356 af (91% of inflow)
 Center-of-Mass det. time= 257.5 min (1,127.6 - 870.1)

Volume	Invert	Avail.Storage	Storage Description
#1	2,181.00'	168,440 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Page 448

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,181.00	4,390	0	0
2,182.00	6,270	5,330	5,330
2,184.00	10,900	17,170	22,500
2,186.00	16,100	27,000	49,500
2,188.00	21,900	38,000	87,500
2,190.00	28,500	50,400	137,900
2,191.00	32,580	30,540	168,440

Device	Routing	Invert	Outlet Devices
#1	Primary	2,181.00'	30.0" Round Culvert L= 30.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,181.00' / 2,180.85' S= 0.0050 1/1 Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf
#2	Device 1	2,185.50'	3.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	2,187.50'	36.0" W x 24.0" H Vert. Orifice/Grate C= 0.600
#4	Device 1	2,189.75'	36.0" W x 12.0" H Vert. Orifice/Grate C= 0.600
#5	Secondary	2,189.75'	20.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=42.71 cfs @ 12.25 hrs HW=2,190.30' (Free Discharge)

- ↑ **1=Culvert** (Passes 42.71 cfs of 67.07 cfs potential flow)
- ↑ **2=Orifice/Grate** (Orifice Controls 0.51 cfs @ 10.41 fps)
- ↑ **3=Orifice/Grate** (Orifice Controls 38.25 cfs @ 6.37 fps)
- ↑ **4=Orifice/Grate** (Orifice Controls 3.95 cfs @ 2.38 fps)

Secondary OutFlow Max=22.48 cfs @ 12.25 hrs HW=2,190.30' (Free Discharge)

- ↑ **5=Broad-Crested Rectangular Weir** (Weir Controls 22.48 cfs @ 2.04 fps)

Summary for Pond P6.1: BIORETENTION

Inflow Area = 0.184 ac, 81.25% Impervious, Inflow Depth = 6.89" for 100-yr Local event
 Inflow = 1.18 cfs @ 12.04 hrs, Volume= 0.106 af
 Outflow = 0.97 cfs @ 12.09 hrs, Volume= 0.106 af, Atten= 18%, Lag= 3.0 min
 Primary = 0.97 cfs @ 12.09 hrs, Volume= 0.106 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Starting Elev= 1,685.99' Surf.Area= 1,600 sf Storage= 799 cf
 Peak Elev= 1,686.67' @ 12.09 hrs Surf.Area= 3,252 sf Storage= 1,824 cf (1,026 cf above start)

Plug-Flow detention time= 380.3 min calculated for 0.087 af (83% of inflow)
 Center-of-Mass det. time= 200.7 min (967.4 - 766.7)

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Page 449

Volume	Invert	Avail.Storage	Storage Description
#1	1,681.00'	320 cf	stone underdrain (Prismatic) Listed below (Recalc) 800 cf Overall x 40.0% Voids
#2	1,682.00'	480 cf	filter media (Prismatic) Listed below (Recalc) 3,200 cf Overall x 15.0% Voids
#3	1,686.00'	3,550 cf	surface storage (Prismatic) Listed below (Recalc)
		4,350 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,681.00	800	0	0
1,682.00	800	800	800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,682.00	800	0	0
1,686.00	800	3,200	3,200

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,400	0	0
1,688.00	2,150	3,550	3,550

Device	Routing	Invert	Outlet Devices
#1	Primary	1,685.99'	0.500 in/hr Exfiltration over Surface area above 1,685.99' Excluded Surface area = 1,600 sf
#2	Primary	1,686.50'	5.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.96 cfs @ 12.09 hrs HW=1,686.67' (Free Discharge)

1=Exfiltration (Exfiltration Controls 0.02 cfs)

2=Broad-Crested Rectangular Weir (Weir Controls 0.94 cfs @ 1.11 fps)

Summary for Pond P8.1: DRY SWALE

Inflow Area = 2.715 ac, 28.55% Impervious, Inflow Depth = 5.15" for 100-yr Local event
 Inflow = 11.68 cfs @ 12.11 hrs, Volume= 1.164 af
 Outflow = 10.06 cfs @ 12.11 hrs, Volume= 1.141 af, Atten= 14%, Lag= 0.0 min
 Primary = 10.06 cfs @ 12.11 hrs, Volume= 1.141 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,309.59' @ 12.11 hrs Surf.Area= 2,921 sf Storage= 2,746 cf

Plug-Flow detention time= 66.4 min calculated for 1.141 af (98% of inflow)
 Center-of-Mass det. time= 54.5 min (883.1 - 828.6)

08077_Proposed-localprecipdata

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Prepared by The LA group

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Page 450

Volume	Invert	Avail.Storage	Storage Description
#1	2,308.00'	2,746 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,308.00	740	0	0
2,309.50	2,921	2,746	2,746

Device	Routing	Invert	Outlet Devices
#1	Primary	2,309.00'	8.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32
#2	Primary	2,308.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=9.87 cfs @ 12.11 hrs HW=2,309.59' (Free Discharge)

1=Broad-Crested Rectangular Weir (Weir Controls 9.84 cfs @ 2.10 fps)

2=Exfiltration (Exfiltration Controls 0.03 cfs)

Summary for Pond P8.2: P-3

Inflow Area = 3.450 ac, 12.00% Impervious, Inflow Depth = 19.47" for 100-yr Local event
 Inflow = 51.17 cfs @ 12.10 hrs, Volume= 5.599 af
 Outflow = 36.13 cfs @ 12.23 hrs, Volume= 5.597 af, Atten= 29%, Lag= 8.2 min
 Primary = 36.13 cfs @ 12.23 hrs, Volume= 5.597 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 1,679.25' Surf.Area= 9,045 sf Storage= 25,779 cf
 Peak Elev= 1,683.59' @ 12.23 hrs Surf.Area= 18,519 sf Storage= 84,660 cf (58,881 cf above start)

Plug-Flow detention time= 347.9 min calculated for 5.005 af (89% of inflow)
 Center-of-Mass det. time= 231.2 min (1,092.6 - 861.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,674.00'	112,698 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,674.00	1,790	0	0
1,676.00	3,789	5,579	5,579
1,678.00	6,620	10,409	15,988
1,680.00	10,500	17,120	33,108
1,682.00	14,650	25,150	58,258
1,684.00	19,510	34,160	92,418
1,685.00	21,050	20,280	112,698

Device	Routing	Invert	Outlet Devices
#1	Primary	1,678.00'	36.0" Round Culvert L= 93.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,678.00' / 1,677.00' S= 0.0108 1/1 Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Device 1	1,679.25'	3.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	1,681.50'	36.0" W x 18.0" H Vert. Orifice/Grate C= 0.600
#4	Primary	1,683.25'	20.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=35.79 cfs @ 12.23 hrs HW=1,683.59' (Free Discharge)

- 1=Culvert (Passes 25.19 cfs of 61.04 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.49 cfs @ 9.88 fps)
- 3=Orifice/Grate (Orifice Controls 24.70 cfs @ 5.49 fps)
- 4=Broad-Crested Rectangular Weir (Weir Controls 10.60 cfs @ 1.57 fps)

Summary for Pond P8.3: DRY SWALE

Inflow Area = 1.145 ac, 16.92% Impervious, Inflow Depth = 4.92" for 100-yr Local event
 Inflow = 5.74 cfs @ 12.04 hrs, Volume= 0.469 af
 Outflow = 5.16 cfs @ 12.07 hrs, Volume= 0.469 af, Atten= 10%, Lag= 1.8 min
 Primary = 5.16 cfs @ 12.07 hrs, Volume= 0.469 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,756.38' @ 12.07 hrs Surf.Area= 2,499 sf Storage= 2,184 cf

Plug-Flow detention time= 103.6 min calculated for 0.469 af (100% of inflow)
 Center-of-Mass det. time= 103.5 min (933.2 - 829.7)

Volume	Invert	Avail.Storage	Storage Description
#1	1,755.00'	2,487 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,755.00	660	0	0
1,756.50	2,656	2,487	2,487

Device	Routing	Invert	Outlet Devices
#1	Primary	1,756.00'	8.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32
#2	Primary	1,755.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=4.97 cfs @ 12.07 hrs HW=1,756.37' (Free Discharge)

- 1=Broad-Crested Rectangular Weir (Weir Controls 4.95 cfs @ 1.66 fps)
- 2=Exfiltration (Exfiltration Controls 0.03 cfs)

Summary for Pond P8.4: P-3

Inflow Area = 26.981 ac, 22.99% Impervious, Inflow Depth = 3.04" for 100-yr Local event
 Inflow = 66.40 cfs @ 12.08 hrs, Volume= 6.828 af
 Outflow = 34.81 cfs @ 12.31 hrs, Volume= 6.828 af, Atten= 48%, Lag= 13.9 min
 Primary = 27.22 cfs @ 12.31 hrs, Volume= 6.660 af
 Secondary = 7.59 cfs @ 12.31 hrs, Volume= 0.168 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 1,665.50' Surf.Area= 12,392 sf Storage= 32,108 cf
 Peak Elev= 1,670.78' @ 12.31 hrs Surf.Area= 24,565 sf Storage= 128,129 cf (96,021 cf above start)

Plug-Flow detention time= 465.3 min calculated for 6.091 af (89% of inflow)
 Center-of-Mass det. time= 335.7 min (1,190.6 - 854.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,662.00'	160,100 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,662.00	5,962	0	0
1,664.00	9,630	15,592	15,592
1,666.00	13,312	22,942	38,534
1,668.00	17,713	31,025	69,559
1,670.00	22,540	40,253	109,812
1,672.00	27,748	50,288	160,100

Device	Routing	Invert	Outlet Devices
#1	Primary	1,663.75'	30.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,663.75' / 1,663.50' S= 0.0050 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf
#2	Device 1	1,665.50'	3.7" Vert. Orifice/Grate C= 0.600
#3	Device 1	1,668.50'	30.0" W x 24.0" H Vert. Orifice/Grate C= 0.600
#4	Secondary	1,670.50'	20.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=27.18 cfs @ 12.31 hrs HW=1,670.77' (Free Discharge)

- ↑1=Culvert (Passes 27.18 cfs of 53.43 cfs potential flow)
- ↑2=Orifice/Grate (Orifice Controls 0.81 cfs @ 10.90 fps)
- ↑3=Orifice/Grate (Orifice Controls 26.37 cfs @ 5.27 fps)

Secondary OutFlow Max=7.37 cfs @ 12.31 hrs HW=1,670.77' (Free Discharge)

- ↑4=Broad-Crested Rectangular Weir (Weir Controls 7.37 cfs @ 1.34 fps)

Summary for Pond P8.5: I-2

Inflow Area = 2.352 ac, 39.21% Impervious, Inflow Depth = 5.38" for 100-yr Local event
 Inflow = 12.77 cfs @ 12.04 hrs, Volume= 1.054 af
 Outflow = 2.26 cfs @ 12.60 hrs, Volume= 1.054 af, Atten= 82%, Lag= 33.6 min
 Discarded = 0.25 cfs @ 12.60 hrs, Volume= 0.707 af
 Primary = 2.01 cfs @ 12.60 hrs, Volume= 0.346 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,679.67' @ 12.60 hrs Surf.Area= 8,171 sf Storage= 23,074 cf

Plug-Flow detention time= 745.2 min calculated for 1.053 af (100% of inflow)
 Center-of-Mass det. time= 745.9 min (1,563.4 - 817.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,674.00'	34,944 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,674.00	465	0	0
1,676.00	2,800	3,265	3,265
1,678.00	5,541	8,341	11,606
1,680.00	8,686	14,227	25,833
1,681.00	9,535	9,111	34,944

Device	Routing	Invert	Outlet Devices
#1	Discarded	1,674.00'	1.340 in/hr Exfiltration over Surface area
#2	Primary	1,674.00'	24.0" Round Culvert L= 500.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,674.00' / 1,662.50' S= 0.0230 1/1 Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf
#3	Device 2	1,678.20'	2.0" Vert. Orifice/Grate C= 0.600
#4	Device 2	1,679.50'	24.0" x 24.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#5	Primary	1,680.00'	20.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Discarded OutFlow Max=0.25 cfs @ 12.60 hrs HW=1,679.67' (Free Discharge)
 ↑1=Exfiltration (Exfiltration Controls 0.25 cfs)

Primary OutFlow Max=2.00 cfs @ 12.60 hrs HW=1,679.67' (Free Discharge)
 ↑2=Culvert (Passes 2.00 cfs of 24.36 cfs potential flow)
 ↑3=Orifice/Grate (Orifice Controls 0.12 cfs @ 5.68 fps)
 ↑4=Orifice/Grate (Weir Controls 1.87 cfs @ 1.36 fps)
 ↑5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P9.2: Pond 9.2

Inflow Area = 12.954 ac, 25.61% Impervious, Inflow Depth = 5.06" for 100-yr Local event
 Inflow = 52.03 cfs @ 12.06 hrs, Volume= 5.467 af
 Outflow = 19.08 cfs @ 12.45 hrs, Volume= 5.466 af, Atten= 63%, Lag= 23.4 min
 Primary = 19.08 cfs @ 12.45 hrs, Volume= 5.466 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Starting Elev= 1,670.00' Surf.Area= 13,607 sf Storage= 25,872 cf
 Peak Elev= 1,674.67' @ 12.45 hrs Surf.Area= 25,187 sf Storage= 115,719 cf (89,847 cf above start)

Plug-Flow detention time= 563.7 min calculated for 4.872 af (89% of inflow)
 Center-of-Mass det. time= 418.2 min (1,267.9 - 849.7)

Volume	Invert	Avail.Storage	Storage Description
#1	1,666.00'	166,295 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,666.00	3,085	0	0
1,668.00	4,590	7,675	7,675
1,670.00	13,607	18,197	25,872
1,672.00	18,274	31,881	57,753
1,674.00	23,344	41,618	99,371
1,676.00	28,815	52,159	151,530
1,676.50	30,246	14,765	166,295

Device	Routing	Invert	Outlet Devices
#1	Primary	1,668.00'	24.0" Round Culvert L= 55.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,668.00' / 1,666.00' S= 0.0364 1/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf
#2	Device 1	1,670.00'	3.5" Vert. Orifice/Grate C= 0.600
#3	Device 1	1,672.50'	24.0" W x 6.0" H Vert. Orifice/Grate C= 0.600
#4	Device 1	1,673.50'	24.0" W x 12.0" H Vert. Orifice/Grate C= 0.600
#5	Primary	1,674.50'	20.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=18.93 cfs @ 12.45 hrs HW=1,674.67' (Free Discharge)

- 1=Culvert (Passes 15.05 cfs of 36.03 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.68 cfs @ 10.25 fps)
- 3=Orifice/Grate (Orifice Controls 6.67 cfs @ 6.67 fps)
- 4=Orifice/Grate (Orifice Controls 7.70 cfs @ 3.85 fps)
- 5=Broad-Crested Rectangular Weir (Weir Controls 3.88 cfs @ 1.12 fps)

Summary for Pond R1.10: PIPE

Inflow Area = 21.914 ac, 7.72% Impervious, Inflow Depth = 4.38" for 100-yr Local event
 Inflow = 61.26 cfs @ 12.18 hrs, Volume= 7.991 af
 Outflow = 61.26 cfs @ 12.18 hrs, Volume= 7.991 af, Atten= 0%, Lag= 0.0 min
 Primary = 61.26 cfs @ 12.18 hrs, Volume= 7.991 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,264.74' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,260.00'	36.0" Round Culvert L= 1,125.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,260.00' / 2,185.00' S= 0.0667 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=60.83 cfs @ 12.18 hrs HW=2,264.69' (Free Discharge)

↑1=Culvert (Inlet Controls 60.83 cfs @ 8.61 fps)

Summary for Pond R1.11: Pipe

Inflow Area = 22.468 ac, 9.65% Impervious, Inflow Depth = 4.44" for 100-yr Local event
 Inflow = 63.55 cfs @ 12.17 hrs, Volume= 8.313 af
 Outflow = 63.55 cfs @ 12.17 hrs, Volume= 8.313 af, Atten= 0%, Lag= 0.0 min
 Primary = 63.55 cfs @ 12.17 hrs, Volume= 8.313 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,193.13' @ 12.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,190.00'	48.0" Round Culvert L= 230.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,190.00' / 2,180.00' S= 0.0435 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 12.57 sf

Primary OutFlow Max=63.00 cfs @ 12.17 hrs HW=2,193.11' (Free Discharge)

↑1=Culvert (Inlet Controls 63.00 cfs @ 6.01 fps)

Summary for Pond R1.3: Culvert

Inflow Area = 10.291 ac, 2.57% Impervious, Inflow Depth = 4.21" for 100-yr Local event
 Inflow = 33.80 cfs @ 12.13 hrs, Volume= 3.614 af
 Outflow = 33.80 cfs @ 12.13 hrs, Volume= 3.614 af, Atten= 0%, Lag= 0.0 min
 Primary = 33.80 cfs @ 12.13 hrs, Volume= 3.614 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,402.75' @ 12.13 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,400.00'	36.0" Round Culvert L= 1,255.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,400.00' / 2,318.00' S= 0.0653 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=33.33 cfs @ 12.13 hrs HW=2,402.72' (Free Discharge)

↑1=Culvert (Inlet Controls 33.33 cfs @ 4.95 fps)

Summary for Pond R1.4: pipe

Inflow Area = 10.291 ac, 2.57% Impervious, Inflow Depth = 4.21" for 100-yr Local event
 Inflow = 33.80 cfs @ 12.13 hrs, Volume= 3.614 af
 Outflow = 33.80 cfs @ 12.13 hrs, Volume= 3.614 af, Atten= 0%, Lag= 0.0 min
 Primary = 33.80 cfs @ 12.13 hrs, Volume= 3.614 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,302.50' @ 12.13 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,300.00'	36.0" Round Culvert L= 950.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,300.00' / 2,212.00' S= 0.0926 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=33.33 cfs @ 12.13 hrs HW=2,302.47' (Free Discharge)

↑1=Culvert (Inlet Controls 33.33 cfs @ 5.35 fps)

Summary for Pond R1.5: Pipe

Inflow Area = 11.201 ac, 9.91% Impervious, Inflow Depth = 4.45" for 100-yr Local event
 Inflow = 37.78 cfs @ 12.12 hrs, Volume= 4.155 af
 Outflow = 37.78 cfs @ 12.12 hrs, Volume= 4.155 af, Atten= 0%, Lag= 0.0 min
 Primary = 37.78 cfs @ 12.12 hrs, Volume= 4.155 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,197.71' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,195.00'	36.0" Round Culvert L= 120.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,195.00' / 2,180.00' S= 0.1250 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=37.09 cfs @ 12.12 hrs HW=2,197.68' (Free Discharge)

↑1=Culvert (Inlet Controls 37.09 cfs @ 5.57 fps)

Summary for Pond R1.6: pipe

Inflow Area = 0.909 ac, 92.98% Impervious, Inflow Depth = 7.13" for 100-yr Local event
 Inflow = 5.93 cfs @ 12.04 hrs, Volume= 0.540 af
 Outflow = 5.93 cfs @ 12.04 hrs, Volume= 0.540 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.93 cfs @ 12.04 hrs, Volume= 0.540 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,208.42' @ 12.04 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,207.00'	24.0" Round Culvert L= 260.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,207.00' / 2,205.70' S= 0.0050 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf

Primary OutFlow Max=5.75 cfs @ 12.04 hrs HW=2,208.40' (Free Discharge)

↑1=Culvert (Barrel Controls 5.75 cfs @ 3.46 fps)

Summary for Pond R1.7: Culvert

Inflow Area = 3.337 ac, 12.31% Impervious, Inflow Depth = 4.80" for 100-yr Local event
 Inflow = 14.66 cfs @ 12.05 hrs, Volume= 1.334 af
 Outflow = 14.66 cfs @ 12.05 hrs, Volume= 1.334 af, Atten= 0%, Lag= 0.0 min
 Primary = 14.66 cfs @ 12.05 hrs, Volume= 1.334 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,206.94' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,206.00'	60.0" W x 36.0" H Box Culvert L= 50.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,206.00' / 2,205.00' S= 0.0200 '/ Cc= 0.900 n= 0.013 Concrete, trowel finish, Flow Area= 15.00 sf

Primary OutFlow Max=14.54 cfs @ 12.05 hrs HW=2,206.94' (Free Discharge)

↑1=Culvert (Inlet Controls 14.54 cfs @ 3.11 fps)

Summary for Pond R1.9: PIPE

Inflow Area = 17.718 ac, 2.79% Impervious, Inflow Depth = 4.22" for 100-yr Local event
 Inflow = 51.01 cfs @ 12.20 hrs, Volume= 6.233 af
 Outflow = 51.01 cfs @ 12.20 hrs, Volume= 6.233 af, Atten= 0%, Lag= 0.0 min
 Primary = 51.01 cfs @ 12.20 hrs, Volume= 6.233 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,298.75' @ 12.20 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,295.00'	36.0" Round Culvert L= 350.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,295.00' / 2,262.00' S= 0.0943 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=50.92 cfs @ 12.20 hrs HW=2,298.74' (Free Discharge)

↑1=Culvert (Inlet Controls 50.92 cfs @ 7.20 fps)

Summary for Pond R11.11: CULVERT

Inflow Area = 4.758 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
 Inflow = 18.08 cfs @ 12.07 hrs, Volume= 1.638 af
 Outflow = 18.08 cfs @ 12.07 hrs, Volume= 1.638 af, Atten= 0%, Lag= 0.0 min
 Primary = 18.08 cfs @ 12.07 hrs, Volume= 1.638 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,479.85' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,478.00'	30.0" Round Culvert L= 35.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 2,478.00' / 2,468.00' S= 0.2857 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf

Primary OutFlow Max=17.41 cfs @ 12.07 hrs HW=2,479.81' (Free Discharge)
 ↑1=Culvert (Inlet Controls 17.41 cfs @ 4.58 fps)

Summary for Pond R11.15: CB

Inflow Area = 11.496 ac, 0.90% Impervious, Inflow Depth = 4.16" for 100-yr Local event
 Inflow = 32.51 cfs @ 12.21 hrs, Volume= 3.985 af
 Outflow = 32.51 cfs @ 12.21 hrs, Volume= 3.985 af, Atten= 0%, Lag= 0.0 min
 Primary = 32.51 cfs @ 12.21 hrs, Volume= 3.985 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,454.84' @ 12.21 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,452.00'	36.0" Round Culvert L= 110.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,452.00' / 2,451.00' S= 0.0091 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=32.26 cfs @ 12.21 hrs HW=2,454.82' (Free Discharge)
 ↑1=Culvert (Barrel Controls 32.26 cfs @ 6.05 fps)

Summary for Pond R11.17: CB

Inflow Area = 11.507 ac, 0.00% Impervious, Inflow Depth = 4.03" for 100-yr Local event
 Inflow = 31.56 cfs @ 12.11 hrs, Volume= 3.864 af
 Outflow = 31.56 cfs @ 12.11 hrs, Volume= 3.864 af, Atten= 0%, Lag= 0.0 min
 Primary = 31.56 cfs @ 12.11 hrs, Volume= 3.864 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,437.38' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,435.00'	36.0" Round Culvert L= 290.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,435.00' / 2,410.00' S= 0.0862 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=31.15 cfs @ 12.11 hrs HW=2,437.36' (Free Discharge)

↳1=Culvert (Inlet Controls 31.15 cfs @ 5.23 fps)

Summary for Pond R11.19: CB

Inflow Area = 1.118 ac, 74.27% Impervious, Inflow Depth = 6.62" for 100-yr Local event
 Inflow = 7.02 cfs @ 12.04 hrs, Volume= 0.617 af
 Outflow = 7.02 cfs @ 12.04 hrs, Volume= 0.617 af, Atten= 0%, Lag= 0.0 min
 Primary = 7.02 cfs @ 12.04 hrs, Volume= 0.617 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,421.00' @ 12.04 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,420.00'	36.0" Round Culvert L= 290.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,420.00' / 2,395.00' S= 0.0862 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=6.82 cfs @ 12.04 hrs HW=2,420.98' (Free Discharge)

↳1=Culvert (Inlet Controls 6.82 cfs @ 3.38 fps)

Summary for Pond R11.20: CULVERT

Inflow Area = 5.469 ac, 0.00% Impervious, Inflow Depth = 4.24" for 100-yr Local event
 Inflow = 17.85 cfs @ 12.15 hrs, Volume= 1.934 af
 Outflow = 17.85 cfs @ 12.15 hrs, Volume= 1.934 af, Atten= 0%, Lag= 0.0 min
 Primary = 17.85 cfs @ 12.15 hrs, Volume= 1.934 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,460.84' @ 12.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,459.00'	30.0" Round Culvert L= 900.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 2,459.00' / 2,394.00' S= 0.0722 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf

Primary OutFlow Max=17.84 cfs @ 12.15 hrs HW=2,460.84' (Free Discharge)

↳1=Culvert (Inlet Controls 17.84 cfs @ 4.61 fps)

Summary for Pond R11.21: CULVERT

Inflow Area = 8.551 ac, 23.95% Impervious, Inflow Depth = 5.13" for 100-yr Local event
 Inflow = 31.14 cfs @ 12.09 hrs, Volume= 3.654 af
 Outflow = 31.14 cfs @ 12.09 hrs, Volume= 3.654 af, Atten= 0%, Lag= 0.0 min
 Primary = 31.14 cfs @ 12.09 hrs, Volume= 3.654 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,396.36' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,394.00'	36.0" Round Culvert L= 900.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,394.00' / 2,328.00' S= 0.0733 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=30.88 cfs @ 12.09 hrs HW=2,396.34' (Free Discharge)

↑1=Culvert (Inlet Controls 30.88 cfs @ 5.21 fps)

Summary for Pond R11.22: CB

Inflow Area = 0.233 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.53 cfs @ 12.04 hrs, Volume= 0.143 af
 Outflow = 1.53 cfs @ 12.04 hrs, Volume= 0.143 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.53 cfs @ 12.04 hrs, Volume= 0.143 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,460.49' @ 12.04 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,460.00'	36.0" Round Culvert L= 770.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,460.00' / 2,450.00' S= 0.0130 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=1.49 cfs @ 12.04 hrs HW=2,460.48' (Free Discharge)

↑1=Culvert (Barrel Controls 1.49 cfs @ 3.11 fps)

Summary for Pond R11.24: CB

Inflow Area = 5.910 ac, 0.00% Impervious, Inflow Depth = 4.04" for 100-yr Local event
 Inflow = 15.10 cfs @ 12.23 hrs, Volume= 1.989 af
 Outflow = 15.10 cfs @ 12.23 hrs, Volume= 1.989 af, Atten= 0%, Lag= 0.0 min
 Primary = 15.10 cfs @ 12.23 hrs, Volume= 1.989 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,487.79' @ 12.23 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,486.00'	30.0" Round Culvert L= 695.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,486.00' / 2,436.00' S= 0.0719 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf

Primary OutFlow Max=15.00 cfs @ 12.23 hrs HW=2,487.78' (Free Discharge)

↑1=Culvert (Inlet Controls 15.00 cfs @ 4.01 fps)

Summary for Pond R11.26: BOX CULVERT

Inflow Area = 16.103 ac, 0.00% Impervious, Inflow Depth = 4.14" for 100-yr Local event
 Inflow = 46.23 cfs @ 12.15 hrs, Volume= 5.551 af
 Outflow = 46.23 cfs @ 12.15 hrs, Volume= 5.551 af, Atten= 0%, Lag= 0.0 min
 Primary = 46.23 cfs @ 12.15 hrs, Volume= 5.551 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,312.20' @ 12.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,310.00'	60.0" W x 36.0" H Box Culvert L= 50.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,310.00' / 2,309.00' S= 0.0200 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 15.00 sf

Primary OutFlow Max=46.12 cfs @ 12.15 hrs HW=2,312.20' (Free Discharge)
 ↑1=Culvert (Inlet Controls 46.12 cfs @ 4.20 fps)

Summary for Pond R11.32: CULVERT

Inflow Area = 12.144 ac, 0.85% Impervious, Inflow Depth = 4.15" for 100-yr Local event
 Inflow = 33.31 cfs @ 12.23 hrs, Volume= 4.203 af
 Outflow = 33.31 cfs @ 12.23 hrs, Volume= 4.203 af, Atten= 0%, Lag= 0.0 min
 Primary = 33.31 cfs @ 12.23 hrs, Volume= 4.203 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,437.04' @ 12.23 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,434.00'	36.0" Round Culvert L= 110.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 2,434.00' / 2,425.00' S= 0.0818 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=33.04 cfs @ 12.23 hrs HW=2,437.01' (Free Discharge)
 ↑1=Culvert (Inlet Controls 33.04 cfs @ 4.67 fps)

Summary for Pond R12.1: CB

Inflow Area = 0.419 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 2.75 cfs @ 12.04 hrs, Volume= 0.257 af
 Outflow = 2.75 cfs @ 12.04 hrs, Volume= 0.257 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.75 cfs @ 12.04 hrs, Volume= 0.257 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,310.09' @ 12.04 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,309.30'	24.0" Round Culvert L= 630.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,309.30' / 2,303.00' S= 0.0100 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.67 cfs @ 12.04 hrs HW=2,310.07' (Free Discharge)

↑1=Culvert (Barrel Controls 2.67 cfs @ 3.53 fps)

Summary for Pond R2.1: PIPE

Inflow Area = 6.131 ac, 1.87% Impervious, Inflow Depth = 4.08" for 100-yr Local event
 Inflow = 18.37 cfs @ 12.17 hrs, Volume= 2.086 af
 Outflow = 18.37 cfs @ 12.17 hrs, Volume= 2.086 af, Atten= 0%, Lag= 0.0 min
 Primary = 18.37 cfs @ 12.17 hrs, Volume= 2.086 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,289.70' @ 12.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,288.00'	36.0" Round Culvert L= 1,185.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,288.00' / 2,215.00' S= 0.0616 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=18.11 cfs @ 12.17 hrs HW=2,289.69' (Free Discharge)

↑1=Culvert (Inlet Controls 18.11 cfs @ 4.42 fps)

Summary for Pond R2.2: PIPE

Inflow Area = 7.598 ac, 20.81% Impervious, Inflow Depth = 4.72" for 100-yr Local event
 Inflow = 23.77 cfs @ 12.13 hrs, Volume= 2.987 af
 Outflow = 23.77 cfs @ 12.13 hrs, Volume= 2.987 af, Atten= 0%, Lag= 0.0 min
 Primary = 23.77 cfs @ 12.13 hrs, Volume= 2.987 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,214.98' @ 12.13 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,213.00'	36.0" Round Culvert L= 795.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,213.00' / 2,190.00' S= 0.0289 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=23.55 cfs @ 12.13 hrs HW=2,214.97' (Free Discharge)

↑1=Culvert (Inlet Controls 23.55 cfs @ 4.78 fps)

Summary for Pond R2.3: catch basin

Inflow Area = 5.677 ac, 7.08% Impervious, Inflow Depth = 4.46" for 100-yr Local event
 Inflow = 21.13 cfs @ 12.10 hrs, Volume= 2.112 af
 Outflow = 21.13 cfs @ 12.10 hrs, Volume= 2.112 af, Atten= 0%, Lag= 0.0 min
 Primary = 21.13 cfs @ 12.10 hrs, Volume= 2.112 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,266.95' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,270.00'	24.0" x 24.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	2,264.00'	24.0" Round Culvert L= 1,755.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,264.00' / 2,191.00' S= 0.0416 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf

Primary OutFlow Max=21.06 cfs @ 12.10 hrs HW=2,266.94' (Free Discharge)

↑1=Orifice/Grate (Controls 0.00 cfs)

↳2=Culvert (Inlet Controls 21.06 cfs @ 6.70 fps)

Summary for Pond R2.5: Road culvert

Inflow Area = 2.890 ac, 13.90% Impervious, Inflow Depth = 4.68" for 100-yr Local event
 Inflow = 11.94 cfs @ 12.05 hrs, Volume= 1.126 af
 Outflow = 11.94 cfs @ 12.05 hrs, Volume= 1.126 af, Atten= 0%, Lag= 0.0 min
 Primary = 11.94 cfs @ 12.05 hrs, Volume= 1.126 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 2,230.43' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,229.00'	36.0" Round Culvert L= 75.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,229.00' / 2,226.00' S= 0.0400 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=11.93 cfs @ 12.05 hrs HW=2,230.43' (Free Discharge)

↑1=Culvert (Inlet Controls 11.93 cfs @ 3.59 fps)

Summary for Pond R2.6: Road Culvert

Inflow Area = 0.737 ac, 12.46% Impervious, Inflow Depth = 4.44" for 100-yr Local event
 Inflow = 2.94 cfs @ 12.05 hrs, Volume= 0.273 af
 Outflow = 2.94 cfs @ 12.05 hrs, Volume= 0.273 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.94 cfs @ 12.05 hrs, Volume= 0.273 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 2,216.86' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,216.00'	18.0" Round Culvert L= 30.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,216.00' / 2,215.00' S= 0.0333 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.94 cfs @ 12.05 hrs HW=2,216.86' (Free Discharge)

↑1=Culvert (Inlet Controls 2.94 cfs @ 2.79 fps)

Summary for Pond R2.8: cb

Inflow Area = 7.441 ac, 15.27% Impervious, Inflow Depth = 4.75" for 100-yr Local event
 Inflow = 27.71 cfs @ 12.12 hrs, Volume= 2.944 af
 Outflow = 27.71 cfs @ 12.12 hrs, Volume= 2.944 af, Atten= 0%, Lag= 0.0 min
 Primary = 27.71 cfs @ 12.12 hrs, Volume= 2.944 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 2,189.18' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,187.00'	36.0" Round Culvert L= 450.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,187.00' / 2,160.00' S= 0.0600 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=27.02 cfs @ 12.12 hrs HW=2,189.15' (Free Discharge)

↑1=Culvert (Inlet Controls 27.02 cfs @ 4.99 fps)

Summary for Pond R4.1: catch basin

Inflow Area = 15.597 ac, 8.50% Impervious, Inflow Depth = 4.41" for 100-yr Local event
 Inflow = 52.83 cfs @ 12.12 hrs, Volume= 5.727 af
 Outflow = 52.83 cfs @ 12.12 hrs, Volume= 5.727 af, Atten= 0%, Lag= 0.0 min
 Primary = 52.83 cfs @ 12.12 hrs, Volume= 5.727 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,291.07' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,284.00'	36.0" Round Culvert L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,284.00' / 2,283.50' S= 0.0100 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Device 1	2,288.00'	30.0" x 30.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=51.73 cfs @ 12.12 hrs HW=2,290.96' (Free Discharge)

↑1=Culvert (Passes 51.73 cfs of 77.96 cfs potential flow)

↑2=Orifice/Grate (Orifice Controls 51.73 cfs @ 8.28 fps)

Summary for Pond R4.3: culvert

Inflow Area = 17.508 ac, 10.00% Impervious, Inflow Depth = 4.45" for 100-yr Local event
 Inflow = 57.77 cfs @ 12.13 hrs, Volume= 6.500 af
 Outflow = 57.77 cfs @ 12.13 hrs, Volume= 6.500 af, Atten= 0%, Lag= 0.0 min
 Primary = 57.77 cfs @ 12.13 hrs, Volume= 6.500 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,213.12' @ 12.13 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,213.00'	36.0" x 36.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	2,208.00'	36.0" Round Culvert L= 210.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,208.00' / 2,192.00' S= 0.0762 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=56.96 cfs @ 12.13 hrs HW=2,213.05' (Free Discharge)

↑1=**Orifice/Grate** (Weir Controls 0.40 cfs @ 0.71 fps)

↑2=**Culvert** (Inlet Controls 56.56 cfs @ 8.00 fps)

Summary for Pond R4.4: CULVERT

Inflow Area = 26.676 ac, 13.82% Impervious, Inflow Depth = 4.38" for 100-yr Local event
 Inflow = 42.73 cfs @ 12.25 hrs, Volume= 9.733 af
 Outflow = 42.73 cfs @ 12.25 hrs, Volume= 9.733 af, Atten= 0%, Lag= 0.0 min
 Primary = 42.73 cfs @ 12.25 hrs, Volume= 9.733 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,184.32' @ 12.25 hrs

Flood Elev= 2,085.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	2,180.80'	36.0" Round Culvert L= 580.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,180.80' / 2,067.00' S= 0.1962 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=42.71 cfs @ 12.25 hrs HW=2,184.32' (Free Discharge)

↑1=**Culvert** (Inlet Controls 42.71 cfs @ 6.04 fps)

Summary for Pond R4.6: CULVERT

Inflow Area = 32.763 ac, 11.26% Impervious, Inflow Depth = 4.37" for 100-yr Local event
 Inflow = 54.32 cfs @ 12.20 hrs, Volume= 11.919 af
 Outflow = 54.32 cfs @ 12.20 hrs, Volume= 11.919 af, Atten= 0%, Lag= 0.0 min
 Primary = 54.32 cfs @ 12.20 hrs, Volume= 11.919 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Peak Elev= 2,008.77' @ 12.20 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,004.00'	36.0" Round Culvert L= 50.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,004.00' / 2,003.00' S= 0.0200 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=54.29 cfs @ 12.20 hrs HW=2,008.77' (Free Discharge)

↑1=**Culvert** (Inlet Controls 54.29 cfs @ 7.68 fps)

Summary for Pond R4.8: CULVERT

Inflow Area = 3.559 ac, 0.00% Impervious, Inflow Depth = 4.35" for 100-yr Local event
 Inflow = 15.85 cfs @ 12.04 hrs, Volume= 1.291 af
 Outflow = 15.85 cfs @ 12.04 hrs, Volume= 1.291 af, Atten= 0%, Lag= 0.0 min
 Primary = 15.85 cfs @ 12.04 hrs, Volume= 1.291 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,094.41' @ 12.04 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,092.00'	24.0" Round Culvert L= 150.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,092.00' / 2,067.00' S= 0.1667 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf

Primary OutFlow Max=15.53 cfs @ 12.04 hrs HW=2,094.35' (Free Discharge)
 ↑1=Culvert (Inlet Controls 15.53 cfs @ 4.94 fps)

Summary for Pond R5.1: CULVERT

Inflow Area = 8.776 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
 Inflow = 34.86 cfs @ 12.06 hrs, Volume= 3.021 af
 Outflow = 34.86 cfs @ 12.06 hrs, Volume= 3.021 af, Atten= 0%, Lag= 0.0 min
 Primary = 34.86 cfs @ 12.06 hrs, Volume= 3.021 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,907.28' @ 12.06 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,904.00'	33.0" Round Culvert L= 810.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 1,904.00' / 1,823.00' S= 0.1000 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 5.94 sf

Primary OutFlow Max=33.83 cfs @ 12.06 hrs HW=1,907.17' (Free Discharge)
 ↑1=Culvert (Inlet Controls 33.83 cfs @ 5.70 fps)

Summary for Pond R8.1: CULVERT

Inflow Area = 2.715 ac, 28.55% Impervious, Inflow Depth = 5.05" for 100-yr Local event
 Inflow = 10.06 cfs @ 12.11 hrs, Volume= 1.141 af
 Outflow = 10.06 cfs @ 12.11 hrs, Volume= 1.141 af, Atten= 0%, Lag= 0.0 min
 Primary = 10.06 cfs @ 12.11 hrs, Volume= 1.141 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,309.58' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,308.00'	24.0" Round Culvert L= 275.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,308.00' / 2,304.00' S= 0.0145 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 3.14 sf

Primary OutFlow Max=9.87 cfs @ 12.11 hrs HW=2,309.56' (Free Discharge)

↑1=Culvert (Inlet Controls 9.87 cfs @ 3.75 fps)

Summary for Pond R8.10: CB

Inflow Area = 15.958 ac, 29.48% Impervious, Inflow Depth = 5.18" for 100-yr Local event
 Inflow = 63.04 cfs @ 12.07 hrs, Volume= 6.890 af
 Outflow = 63.04 cfs @ 12.07 hrs, Volume= 6.890 af, Atten= 0%, Lag= 0.0 min
 Primary = 63.04 cfs @ 12.07 hrs, Volume= 6.890 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,979.27' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,976.00'	45.0" Round Culvert L= 765.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,976.00' / 1,899.00' S= 0.1007 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 11.04 sf

Primary OutFlow Max=61.21 cfs @ 12.07 hrs HW=1,979.20' (Free Discharge)

↑1=Culvert (Inlet Controls 61.21 cfs @ 6.09 fps)

Summary for Pond R8.12: CULVERT

Inflow Area = 5.442 ac, 8.40% Impervious, Inflow Depth = 4.41" for 100-yr Local event
 Inflow = 20.55 cfs @ 12.09 hrs, Volume= 1.999 af
 Outflow = 20.55 cfs @ 12.09 hrs, Volume= 1.999 af, Atten= 0%, Lag= 0.0 min
 Primary = 20.55 cfs @ 12.09 hrs, Volume= 1.999 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,904.21' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,902.00'	30.0" Round Culvert L= 40.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 1,902.00' / 1,899.00' S= 0.0750 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf

Primary OutFlow Max=20.15 cfs @ 12.09 hrs HW=1,904.18' (Free Discharge)

↑1=Culvert (Inlet Controls 20.15 cfs @ 4.44 fps)

Summary for Pond R8.13: CB

Inflow Area = 21.400 ac, 24.12% Impervious, Inflow Depth = 4.98" for 100-yr Local event
 Inflow = 83.62 cfs @ 12.07 hrs, Volume= 8.889 af
 Outflow = 83.62 cfs @ 12.07 hrs, Volume= 8.889 af, Atten= 0%, Lag= 0.0 min
 Primary = 83.62 cfs @ 12.07 hrs, Volume= 8.889 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,899.86' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,896.00'	48.0" Round Culvert L= 835.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,896.00' / 1,824.00' S= 0.0862 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 12.57 sf

Primary OutFlow Max=81.06 cfs @ 12.07 hrs HW=1,899.77' (Free Discharge)

↑1=Culvert (Inlet Controls 81.06 cfs @ 6.61 fps)

Summary for Pond R8.15: CB

Inflow Area =	24.114 ac, 25.39% Impervious, Inflow Depth = 5.03" for 100-yr Local event
Inflow =	97.31 cfs @ 12.07 hrs, Volume= 10.113 af
Outflow =	97.31 cfs @ 12.07 hrs, Volume= 10.113 af, Atten= 0%, Lag= 0.0 min
Primary =	58.61 cfs @ 12.07 hrs, Volume= 5.820 af
Secondary =	38.69 cfs @ 12.07 hrs, Volume= 4.293 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Peak Elev= 1,823.97' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,821.00'	48.0" Round Culvert L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,821.00' / 1,818.00' S= 0.0300 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 12.57 sf
#2	Secondary	1,821.00'	36.0" Round Culvert L= 65.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,821.00' / 1,820.00' S= 0.0154 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=56.78 cfs @ 12.07 hrs HW=1,823.91' (Free Discharge)

↑1=Culvert (Inlet Controls 56.78 cfs @ 5.80 fps)

Secondary OutFlow Max=37.62 cfs @ 12.07 hrs HW=1,823.91' (Free Discharge)

↑2=Culvert (Barrel Controls 37.62 cfs @ 6.84 fps)

Summary for Pond R8.20: PIPE

Inflow Area =	24.114 ac, 25.39% Impervious, Inflow Depth = 2.90" for 100-yr Local event
Inflow =	58.61 cfs @ 12.07 hrs, Volume= 5.820 af
Outflow =	58.61 cfs @ 12.07 hrs, Volume= 5.820 af, Atten= 0%, Lag= 0.0 min
Primary =	58.61 cfs @ 12.07 hrs, Volume= 5.820 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 1,820.17' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,815.00'	42.0" Round PIPE L= 220.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,815.00' / 1,814.00' S= 0.0045 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 9.62 sf

Primary OutFlow Max=56.80 cfs @ 12.07 hrs HW=1,819.98' (Free Discharge)

↑1=PIPE (Barrel Controls 56.80 cfs @ 5.90 fps)

Summary for Pond R8.22: New Culvert

Inflow Area = 51.032 ac, 13.71% Impervious, Inflow Depth = 4.59" for 100-yr Local event
 Inflow = 105.56 cfs @ 12.30 hrs, Volume= 19.524 af
 Outflow = 105.56 cfs @ 12.30 hrs, Volume= 19.524 af, Atten= 0%, Lag= 0.0 min
 Primary = 105.56 cfs @ 12.30 hrs, Volume= 19.524 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,670.64' @ 12.30 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,663.00'	24.0" Round Culvert X 2.00 L= 50.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,663.00' / 1,662.50' S= 0.0100 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Primary	1,670.00'	20.0' long x 30.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=105.45 cfs @ 12.30 hrs HW=1,670.64' (Free Discharge)

- 1=Culvert (Inlet Controls 77.95 cfs @ 12.41 fps)
- 2=Broad-Crested Rectangular Weir (Weir Controls 27.49 cfs @ 2.15 fps)

Summary for Pond R8.3: CULVERT

Inflow Area = 6.715 ac, 30.90% Impervious, Inflow Depth = 5.17" for 100-yr Local event
 Inflow = 27.02 cfs @ 12.09 hrs, Volume= 2.895 af
 Outflow = 27.02 cfs @ 12.09 hrs, Volume= 2.895 af, Atten= 0%, Lag= 0.0 min
 Primary = 27.02 cfs @ 12.09 hrs, Volume= 2.895 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,274.20' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,272.00'	36.0" Round Culvert L= 50.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,272.00' / 2,271.00' S= 0.0200 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Primary	2,274.00'	10.0' long x 30.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=26.79 cfs @ 12.09 hrs HW=2,274.19' (Free Discharge)

- 1=Culvert (Inlet Controls 24.58 cfs @ 4.45 fps)
- 2=Broad-Crested Rectangular Weir (Weir Controls 2.22 cfs @ 1.17 fps)

Summary for Pond R8.5: CULVERT

Inflow Area = 8.502 ac, 27.24% Impervious, Inflow Depth = 5.07" for 100-yr Local event
 Inflow = 32.01 cfs @ 12.11 hrs, Volume= 3.589 af
 Outflow = 32.01 cfs @ 12.11 hrs, Volume= 3.589 af, Atten= 0%, Lag= 0.0 min
 Primary = 32.01 cfs @ 12.11 hrs, Volume= 3.589 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,224.33' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,222.00'	36.0" Round Culvert L= 50.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,222.00' / 2,220.00' S= 0.0400 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf
#2	Primary	2,224.00'	10.0' long x 30.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=31.53 cfs @ 12.11 hrs HW=2,224.32' (Free Discharge)

- 1=Culvert (Inlet Controls 26.76 cfs @ 4.57 fps)
- 2=Broad-Crested Rectangular Weir (Weir Controls 4.77 cfs @ 1.51 fps)

Summary for Pond R8.7: CULVERT

Inflow Area = 14.012 ac, 24.04% Impervious, Inflow Depth = 5.00" for 100-yr Local event
 Inflow = 51.38 cfs @ 12.09 hrs, Volume= 5.841 af
 Outflow = 51.38 cfs @ 12.09 hrs, Volume= 5.841 af, Atten= 0%, Lag= 0.0 min
 Primary = 51.38 cfs @ 12.09 hrs, Volume= 5.841 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,181.30' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,178.00'	42.0" Round Culvert L= 200.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 2,178.00' / 2,163.00' S= 0.0750 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 9.62 sf

Primary OutFlow Max=51.00 cfs @ 12.09 hrs HW=2,181.28' (Free Discharge)

- 1=Culvert (Inlet Controls 51.00 cfs @ 5.44 fps)

Summary for Pond R8.8: CB

Inflow Area = 14.734 ac, 26.41% Impervious, Inflow Depth = 5.08" for 100-yr Local event
 Inflow = 55.06 cfs @ 12.08 hrs, Volume= 6.235 af
 Outflow = 55.06 cfs @ 12.08 hrs, Volume= 6.235 af, Atten= 0%, Lag= 0.0 min
 Primary = 55.06 cfs @ 12.08 hrs, Volume= 6.235 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,163.15' @ 12.08 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,160.00'	42.0" Round Culvert L= 880.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,160.00' / 2,077.00' S= 0.0943 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 9.62 sf

Primary OutFlow Max=54.49 cfs @ 12.08 hrs HW=2,163.12' (Free Discharge)
 ↳1=Culvert (Inlet Controls 54.49 cfs @ 6.02 fps)

Summary for Pond R8.9: CB

Inflow Area = 15.354 ac, 28.00% Impervious, Inflow Depth = 5.13" for 100-yr Local event
 Inflow = 59.56 cfs @ 12.07 hrs, Volume= 6.567 af
 Outflow = 59.56 cfs @ 12.07 hrs, Volume= 6.567 af, Atten= 0%, Lag= 0.0 min
 Primary = 59.56 cfs @ 12.07 hrs, Volume= 6.567 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 2,077.36' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	2,074.00'	42.0" Round Culvert L= 900.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 2,074.00' / 1,979.00' S= 0.1056 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 9.62 sf

Primary OutFlow Max=57.83 cfs @ 12.07 hrs HW=2,077.28' (Free Discharge)
 ↳1=Culvert (Inlet Controls 57.83 cfs @ 6.17 fps)

Summary for Pond R9.1: pipes

Inflow Area = 3.982 ac, 24.44% Impervious, Inflow Depth = 5.02" for 100-yr Local event
 Inflow = 14.45 cfs @ 12.11 hrs, Volume= 1.667 af
 Outflow = 14.45 cfs @ 12.11 hrs, Volume= 1.667 af, Atten= 0%, Lag= 0.0 min
 Primary = 14.45 cfs @ 12.11 hrs, Volume= 1.667 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,817.74' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,816.00'	30.0" Round Culvert L= 560.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 1,816.00' / 1,770.00' S= 0.0821 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 4.91 sf
#2	Primary	1,820.00'	40.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=14.32 cfs @ 12.11 hrs HW=1,817.73' (Free Discharge)
 ↳1=Culvert (Inlet Controls 14.32 cfs @ 3.95 fps)
 ↳2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond R9.11: Culvert

Inflow Area = 26.104 ac, 16.32% Impervious, Inflow Depth = 4.73" for 100-yr Local event
 Inflow = 52.29 cfs @ 12.16 hrs, Volume= 10.283 af
 Outflow = 52.29 cfs @ 12.16 hrs, Volume= 10.283 af, Atten= 0%, Lag= 0.0 min
 Primary = 52.29 cfs @ 12.16 hrs, Volume= 10.283 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,661.86' @ 12.16 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,658.00'	36.0" Round Culvert L= 50.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,658.00' / 1,656.00' S= 0.0400 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 7.07 sf

Primary OutFlow Max=51.92 cfs @ 12.16 hrs HW=1,661.83' (Free Discharge)
 ↑1=Culvert (Inlet Controls 51.92 cfs @ 7.34 fps)

Summary for Pond R9.2A: Culvert

Inflow Area = 13.150 ac, 7.18% Impervious, Inflow Depth = 4.40" for 100-yr Local event
 Inflow = 45.74 cfs @ 12.07 hrs, Volume= 4.817 af
 Outflow = 45.74 cfs @ 12.07 hrs, Volume= 4.817 af, Atten= 0%, Lag= 0.0 min
 Primary = 45.74 cfs @ 12.07 hrs, Volume= 4.817 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,774.54' @ 12.07 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,772.00'	48.0" Round Culvert L= 40.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,772.00' / 1,770.00' S= 0.0500 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 12.57 sf

Primary OutFlow Max=44.62 cfs @ 12.07 hrs HW=1,774.50' (Free Discharge)
 ↑1=Culvert (Inlet Controls 44.62 cfs @ 5.39 fps)

Summary for Pond R9.5: Culvert

Inflow Area = 4.347 ac, 22.35% Impervious, Inflow Depth = 5.04" for 100-yr Local event
 Inflow = 19.72 cfs @ 12.05 hrs, Volume= 1.825 af
 Outflow = 19.72 cfs @ 12.05 hrs, Volume= 1.825 af, Atten= 0%, Lag= 0.0 min
 Primary = 19.72 cfs @ 12.05 hrs, Volume= 1.825 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,715.51' @ 12.05 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,714.00'	54.0" Round Culvert L= 60.0' CPP, end-section conforming to fill, Ke= 0.500

Inlet / Outlet Invert= 1,714.00' / 1,710.00' S= 0.0667 '/ n= 0.020 Corrugated PE, corrugated interior, Flow Area= 15.90 sf

Primary OutFlow Max=19.60 cfs @ 12.05 hrs HW=1,715.51' (Free Discharge)

↑1=Culvert (Inlet Controls 19.60 cfs @ 4.18 fps)

Summary for Pond R9.6: Culvert

Inflow Area = 1.291 ac, 18.31% Impervious, Inflow Depth = 4.46" for 100-yr Local event
 Inflow = 4.94 cfs @ 12.08 hrs, Volume= 0.480 af
 Outflow = 4.94 cfs @ 12.08 hrs, Volume= 0.480 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.94 cfs @ 12.08 hrs, Volume= 0.480 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,685.10' @ 12.08 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,684.00'	18.0" Round Culvert L= 100.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,684.00' / 1,682.00' S= 0.0200 '/ n= 0.020 Corrugated PE, corrugated interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.83 cfs @ 12.08 hrs HW=1,685.08' (Free Discharge)

↑1=Culvert (Inlet Controls 4.83 cfs @ 3.54 fps)

Summary for Link 1.1L: Sub 1.1 Res

Inflow Area = 0.275 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.10 cfs @ 12.14 hrs, Volume= 0.169 af
 Primary = 1.10 cfs @ 12.14 hrs, Volume= 0.169 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 1.2L: Sub 1.2 Res

Inflow Area = 0.264 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.04 cfs @ 12.14 hrs, Volume= 0.162 af
 Primary = 1.04 cfs @ 12.14 hrs, Volume= 0.162 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 1.3L: Sub 1.3 Res

Inflow Area = 0.149 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af
Primary = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 1.4L: Sub 1.4 Res

Inflow Area = 0.161 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.66 cfs @ 12.14 hrs, Volume= 0.099 af
Primary = 0.66 cfs @ 12.14 hrs, Volume= 0.099 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 1.5L: Sub 1.5 Res

Inflow Area = 0.494 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 2.03 cfs @ 12.14 hrs, Volume= 0.303 af
Primary = 2.03 cfs @ 12.14 hrs, Volume= 0.303 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 1.6L: Sub 1.6 Res

Inflow Area = 0.379 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 1.54 cfs @ 12.13 hrs, Volume= 0.233 af
Primary = 1.54 cfs @ 12.13 hrs, Volume= 0.233 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 1.9L: Sub 1.9 Res

Inflow Area = 0.528 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 1.85 cfs @ 12.15 hrs, Volume= 0.324 af
Primary = 1.85 cfs @ 12.15 hrs, Volume= 0.324 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 2.10L: Sub 2.10 Res

Inflow Area = 0.562 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 2.06 cfs @ 12.15 hrs, Volume= 0.345 af
Primary = 2.06 cfs @ 12.15 hrs, Volume= 0.345 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 2.1L: Sub 2.1 Res

Inflow Area = 0.115 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.44 cfs @ 12.15 hrs, Volume= 0.070 af
Primary = 0.44 cfs @ 12.15 hrs, Volume= 0.070 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 2.3L: Sub 2.3 Res

Inflow Area = 0.241 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.98 cfs @ 12.14 hrs, Volume= 0.148 af
Primary = 0.98 cfs @ 12.14 hrs, Volume= 0.148 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 2.6L: Sub 2.6 Res

Inflow Area = 0.402 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 1.64 cfs @ 12.14 hrs, Volume= 0.247 af
Primary = 1.64 cfs @ 12.14 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 2.7L: Sub 2.7 Res

Inflow Area = 0.402 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 1.64 cfs @ 12.14 hrs, Volume= 0.247 af
Primary = 1.64 cfs @ 12.14 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 2.8L: Sub 2.8 Res

Inflow Area = 0.092 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af
Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 2.9L: Sub 2.9 Res

Inflow Area = 0.643 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 2.62 cfs @ 12.14 hrs, Volume= 0.395 af
Primary = 2.62 cfs @ 12.14 hrs, Volume= 0.395 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 4.1L: Sub 4.1 Res

Inflow Area = 0.585 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 2.42 cfs @ 12.13 hrs, Volume= 0.360 af
Primary = 2.42 cfs @ 12.13 hrs, Volume= 0.360 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 4.3L: Sub 4.3 Res

Inflow Area = 1.377 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 5.64 cfs @ 12.14 hrs, Volume= 0.846 af
Primary = 5.64 cfs @ 12.14 hrs, Volume= 0.846 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 4.4L: Sub 4.4 Res

Inflow Area = 0.253 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 1.04 cfs @ 12.13 hrs, Volume= 0.155 af
Primary = 1.04 cfs @ 12.13 hrs, Volume= 0.155 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 5.2L: Sub 5.2 Res

Inflow Area = 0.333 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 1.37 cfs @ 12.13 hrs, Volume= 0.204 af
Primary = 1.37 cfs @ 12.13 hrs, Volume= 0.204 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 8.10L: Sub 8.10 Res

Inflow Area = 0.643 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 2.62 cfs @ 12.14 hrs, Volume= 0.395 af
Primary = 2.62 cfs @ 12.14 hrs, Volume= 0.395 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 8.11L: Sub 8.11 Res

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af
Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 8.15L: Sub 8.15 Res

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af
Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 8.1L: Sub 8.1 Res

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af
Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 8.4L: Sub 8.4 Res

Inflow Area = 0.287 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 1.16 cfs @ 12.14 hrs, Volume= 0.176 af
Primary = 1.16 cfs @ 12.14 hrs, Volume= 0.176 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 8.5L: Sub 8.5 Res

Inflow Area = 0.298 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 1.14 cfs @ 12.14 hrs, Volume= 0.183 af
Primary = 1.14 cfs @ 12.14 hrs, Volume= 0.183 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 8.8L: Sub 8.8 Res

Inflow Area = 0.241 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.98 cfs @ 12.14 hrs, Volume= 0.148 af
Primary = 0.98 cfs @ 12.14 hrs, Volume= 0.148 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 9.10L: Sub 9.10 Res

Inflow Area = 0.321 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 1.31 cfs @ 12.14 hrs, Volume= 0.197 af
Primary = 1.31 cfs @ 12.14 hrs, Volume= 0.197 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 9.11L: Sub 9.11 Res

Inflow Area = 0.402 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 1.64 cfs @ 12.14 hrs, Volume= 0.247 af
Primary = 1.64 cfs @ 12.14 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 9.1L: Sub 9.1 Res

Inflow Area = 0.241 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.98 cfs @ 12.14 hrs, Volume= 0.148 af
Primary = 0.98 cfs @ 12.14 hrs, Volume= 0.148 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 9.5L: Sub 8.5 Res

Inflow Area = 0.092 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af
Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 9.6L: Sub 9.6 Res

Inflow Area = 0.562 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 2.30 cfs @ 12.14 hrs, Volume= 0.345 af
Primary = 2.30 cfs @ 12.14 hrs, Volume= 0.345 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 11.14L: Sub 11.14 Res

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af
Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 11.18L: Sub 11.18 Res

Inflow Area = 0.103 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.39 cfs @ 12.15 hrs, Volume= 0.063 af
Primary = 0.39 cfs @ 12.15 hrs, Volume= 0.063 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 11.25L: Sub 11.25 Res

Inflow Area = 0.161 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.66 cfs @ 12.14 hrs, Volume= 0.099 af
Primary = 0.66 cfs @ 12.14 hrs, Volume= 0.099 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 11.33L: Sub 11.33 Res

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af
Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 11.3L: Sub 11.3 Res

Inflow Area = 0.436 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 1.75 cfs @ 12.14 hrs, Volume= 0.268 af
Primary = 1.75 cfs @ 12.14 hrs, Volume= 0.268 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

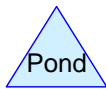
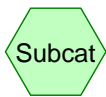
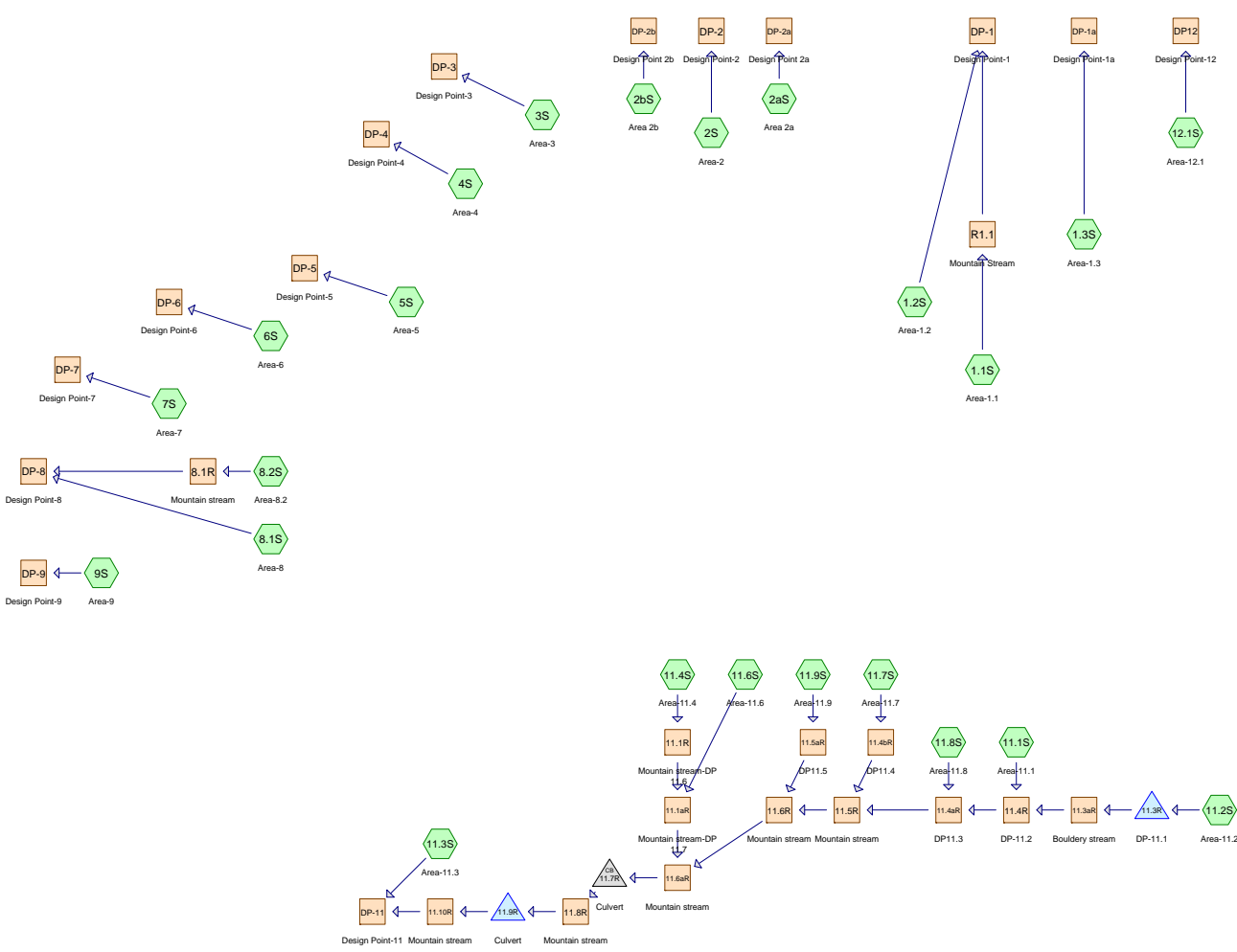
100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L

Summary for Link 12.2L: Sub 12.2 Res

Inflow Area = 0.379 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 1.51 cfs @ 12.14 hrs, Volume= 0.233 af
Primary = 1.51 cfs @ 12.14 hrs, Volume= 0.233 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

100-yr Local Primary Outflow Imported from G:\Proj-08\08077_Tuck_Windham\08077HydroCad\Residential Stuff\Residential L



Routing Diagram for 08077_Existing-localprecipdata
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Page 2

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
1.847	74	>75% Grass cover, Good, HSG C (11.3S)
38.578	65	Brush, Good, HSG C (1.2S, 1.3S, 2aS, 2bS, 2S, 3S, 5S, 6S, 7S, 8.1S, 8.2S, 9S, 11.4S)
15.647	71	Meadow, non-grazed, HSG C (8.2S, 11.1S, 11.2S, 11.3S, 11.4S, 11.7S, 11.8S)
5.905	98	Paved parking & roofs (11.3S)
0.389	98	Paved parking, HSG C (9S)
0.232	98	Roofs, HSG C (9S)
382.889	70	Woods, Good, HSG C (1.1S, 1.2S, 1.3S, 2aS, 2bS, 2S, 3S, 4S, 5S, 8.1S, 8.2S, 9S, 11.1S, 11.2S, 11.3S, 11.4S, 11.6S, 11.7S, 11.8S, 11.9S, 12.1S)
13.113	77	Woods, Good, HSG D (1.1S, 1.2S, 1.3S, 2aS, 2S, 3S, 5S, 8.1S, 8.2S, 9S, 11.2S, 11.3S, 11.4S, 11.6S, 11.7S, 11.8S, 11.9S, 12.1S)
458.600	70	TOTAL AREA

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Page 3

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
439.581	HSG C	1.1S, 1.2S, 1.3S, 2aS, 2bS, 2S, 3S, 4S, 5S, 6S, 7S, 8.1S, 8.2S, 9S, 11.1S, 11.2S, 11.3S, 11.4S, 11.6S, 11.7S, 11.8S, 11.9S, 12.1S
13.113	HSG D	1.1S, 1.2S, 1.3S, 2aS, 2S, 3S, 5S, 8.1S, 8.2S, 9S, 11.2S, 11.3S, 11.4S, 11.6S, 11.7S, 11.8S, 11.9S, 12.1S
5.905	Other	11.3S
458.600		TOTAL AREA

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1.1S: Area-1.1	Runoff Area=1,603,065 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=3,105' Tc=17.4 min CN=70 Runoff=8.19 cfs 1.210 af
Subcatchment 1.2S: Area-1.2	Runoff Area=814,865 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=2,865' Tc=15.3 min CN=70 Runoff=4.41 cfs 0.615 af
Subcatchment 1.3S: Area-1.3	Runoff Area=689,011 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=2,795' Tc=23.4 min CN=70 Runoff=3.08 cfs 0.520 af
Subcatchment 2aS: Area 2a	Runoff Area=140,195 sf 0.00% Impervious Runoff Depth=0.36" Flow Length=555' Tc=8.4 min CN=69 Runoff=0.82 cfs 0.097 af
Subcatchment 2bS: Area 2b	Runoff Area=1,134,520 sf 0.00% Impervious Runoff Depth=0.36" Flow Length=1,290' Tc=14.5 min CN=69 Runoff=5.37 cfs 0.788 af
Subcatchment 2S: Area-2	Runoff Area=1,301,430 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=2,860' Tc=23.0 min CN=70 Runoff=5.87 cfs 0.983 af
Subcatchment 3S: Area-3	Runoff Area=642,442 sf 0.00% Impervious Runoff Depth=0.36" Flow Length=2,185' Tc=14.8 min CN=69 Runoff=3.02 cfs 0.446 af
Subcatchment 4S: Area-4	Runoff Area=1,028,610 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=2,755' Tc=18.2 min CN=70 Runoff=5.16 cfs 0.777 af
Subcatchment 5S: Area-5	Runoff Area=1,428,830 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=2,625' Tc=15.4 min CN=70 Runoff=7.70 cfs 1.079 af
Subcatchment 6S: Area-6	Runoff Area=145,690 sf 0.00% Impervious Runoff Depth=0.25" Flow Length=510' Tc=6.9 min CN=65 Runoff=0.38 cfs 0.070 af
Subcatchment 7S: Area-7	Runoff Area=197,522 sf 0.00% Impervious Runoff Depth=0.25" Flow Length=408' Tc=5.9 min CN=65 Runoff=0.53 cfs 0.095 af
Subcatchment 8.1S: Area-8	Runoff Area=649,150 sf 0.00% Impervious Runoff Depth=0.33" Flow Length=1,705' Tc=11.0 min CN=68 Runoff=2.87 cfs 0.413 af
Subcatchment 8.2S: Area-8.2	Runoff Area=1,177,420 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=1,880' Tc=14.3 min CN=70 Runoff=6.53 cfs 0.889 af
Subcatchment 9S: Area-9	Runoff Area=1,212,872 sf 2.23% Impervious Runoff Depth=0.36" Flow Length=1,705' Tc=13.8 min CN=69 Runoff=5.84 cfs 0.842 af
Subcatchment 11.1S: Area-11.1	Runoff Area=1,023,137 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=2,640' Tc=21.9 min CN=70 Runoff=4.72 cfs 0.773 af
Subcatchment 11.2S: Area-11.2	Runoff Area=1,440,006 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=2,720' Tc=29.3 min CN=70 Runoff=5.82 cfs 1.087 af

Subcatchment 11.3S: Area-11.3	Runoff Area=2,860,947 sf 8.99% Impervious Runoff Depth=0.50" Flow Length=5,405' Tc=29.0 min CN=73 Runoff=16.76 cfs 2.730 af
Subcatchment 11.4S: Area-11.4	Runoff Area=922,517 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=2,606' Tc=18.0 min CN=70 Runoff=4.63 cfs 0.697 af
Subcatchment 11.6S: Area-11.6	Runoff Area=316,135 sf 0.00% Impervious Runoff Depth=0.46" Flow Length=1,490' Tc=15.2 min CN=72 Runoff=2.24 cfs 0.280 af
Subcatchment 11.7S: Area-11.7	Runoff Area=384,600 sf 0.00% Impervious Runoff Depth=0.43" Flow Length=1,793' Tc=16.1 min CN=71 Runoff=2.34 cfs 0.315 af
Subcatchment 11.8S: Area-11.8	Runoff Area=90,160 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=750' Tc=8.8 min CN=70 Runoff=0.61 cfs 0.068 af
Subcatchment 11.9S: Area-11.9	Runoff Area=89,354 sf 0.00% Impervious Runoff Depth=0.46" Flow Length=1,084' Tc=12.9 min CN=72 Runoff=0.68 cfs 0.079 af
Subcatchment 12.1S: Area-12.1	Runoff Area=684,140 sf 0.00% Impervious Runoff Depth=0.39" Flow Length=1,995' Tc=37.6 min CN=70 Runoff=2.47 cfs 0.517 af
Reach 8.1R: Mountain stream	Avg. Flow Depth=0.32' Max Vel=6.64 fps Inflow=6.53 cfs 0.889 af n=0.040 L=850.0' S=0.1906 1/' Capacity=193.86 cfs Outflow=6.40 cfs 0.889 af
Reach 11.10R: Mountain stream	Avg. Flow Depth=0.16' Max Vel=4.47 fps Inflow=17.64 cfs 3.298 af n=0.040 L=393.0' S=0.1730 1/' Capacity=3,320.07 cfs Outflow=17.55 cfs 3.298 af
Reach 11.1aR: Mountain stream-DP 11.7	Avg. Flow Depth=0.32' Max Vel=5.91 fps Inflow=6.60 cfs 0.976 af n=0.040 L=950.0' S=0.1884 1/' Capacity=186.80 cfs Outflow=6.46 cfs 0.976 af
Reach 11.1R: Mountain stream-DP 11.6	Avg. Flow Depth=0.27' Max Vel=5.22 fps Inflow=4.63 cfs 0.697 af n=0.040 L=310.0' S=0.1742 1/' Capacity=179.61 cfs Outflow=4.56 cfs 0.697 af
Reach 11.3aR: Bouldery stream	Avg. Flow Depth=0.14' Max Vel=5.02 fps Inflow=5.81 cfs 1.088 af n=0.050 L=142.0' S=0.4014 1/' Capacity=748.92 cfs Outflow=5.80 cfs 1.088 af
Reach 11.4aR: DP11.3	Avg. Flow Depth=0.22' Max Vel=6.16 fps Inflow=10.30 cfs 1.928 af n=0.050 L=220.0' S=0.3636 1/' Capacity=858.32 cfs Outflow=10.28 cfs 1.928 af
Reach 11.4bR: DP11.4	Avg. Flow Depth=0.25' Max Vel=5.85 fps Inflow=2.34 cfs 0.315 af n=0.040 L=145.0' S=0.2621 1/' Capacity=231.18 cfs Outflow=2.31 cfs 0.315 af
Reach 11.4R: DP-11.2	Avg. Flow Depth=0.27' Max Vel=4.52 fps Inflow=10.06 cfs 1.860 af n=0.050 L=267.0' S=0.1498 1/' Capacity=558.40 cfs Outflow=10.02 cfs 1.860 af
Reach 11.5aR: DP11.5	Avg. Flow Depth=0.13' Max Vel=3.88 fps Inflow=0.68 cfs 0.079 af n=0.040 L=620.0' S=0.2323 1/' Capacity=217.63 cfs Outflow=0.65 cfs 0.079 af
Reach 11.5R: Mountain stream	Avg. Flow Depth=0.16' Max Vel=5.06 fps Inflow=11.92 cfs 2.243 af n=0.040 L=455.0' S=0.2242 1/' Capacity=3,678.81 cfs Outflow=11.89 cfs 2.243 af

08077_Existing-localprecipdata

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 6

Reach 11.6aR: Mountain stream	Avg. Flow Depth=0.24' Max Vel=7.03 fps Inflow=17.78 cfs 3.298 af n=0.050 L=245.0' S=0.4000 '/' Capacity=3,987.80 cfs Outflow=17.71 cfs 3.298 af
Reach 11.6R: Mountain stream	Avg. Flow Depth=0.22' Max Vel=5.30 fps Inflow=12.30 cfs 2.322 af n=0.050 L=475.0' S=0.2505 '/' Capacity=3,155.95 cfs Outflow=12.24 cfs 2.322 af
Reach 11.8R: Mountain stream	Avg. Flow Depth=0.20' Max Vel=5.71 fps Inflow=17.71 cfs 3.298 af n=0.050 L=360.0' S=0.3139 '/' Capacity=13,400.37 cfs Outflow=17.67 cfs 3.298 af
Reach DP-1: Design Point-1	Avg. Flow Depth=0.28' Max Vel=5.88 fps Inflow=12.01 cfs 1.826 af n=0.040 L=10.0' S=0.1500 '/' Capacity=670.80 cfs Outflow=12.01 cfs 1.826 af
Reach DP-11: Design Point-11	Inflow=33.07 cfs 6.028 af Outflow=33.07 cfs 6.028 af
Reach DP-1a: Design Point-1a	Avg. Flow Depth=0.22' Max Vel=3.68 fps Inflow=3.08 cfs 0.520 af n=0.040 L=10.0' S=0.1000 '/' Capacity=97.10 cfs Outflow=3.08 cfs 0.520 af
Reach DP-2: Design Point-2	Avg. Flow Depth=0.21' Max Vel=5.56 fps Inflow=5.87 cfs 0.983 af n=0.040 L=10.0' S=0.2000 '/' Capacity=233.42 cfs Outflow=5.86 cfs 0.983 af
Reach DP-2a: Design Point 2a	Inflow=0.82 cfs 0.097 af Outflow=0.82 cfs 0.097 af
Reach DP-2b: Design Point 2b	Inflow=5.37 cfs 0.788 af Outflow=5.37 cfs 0.788 af
Reach DP-3: Design Point-3	Inflow=3.02 cfs 0.446 af Outflow=3.02 cfs 0.446 af
Reach DP-4: Design Point-4	Inflow=5.16 cfs 0.777 af Outflow=5.16 cfs 0.777 af
Reach DP-5: Design Point-5	Inflow=7.70 cfs 1.079 af Outflow=7.70 cfs 1.079 af
Reach DP-6: Design Point-6	Inflow=0.38 cfs 0.070 af Outflow=0.38 cfs 0.070 af
Reach DP-7: Design Point-7	Inflow=0.53 cfs 0.095 af Outflow=0.53 cfs 0.095 af
Reach DP-8: Design Point-8	Inflow=8.83 cfs 1.302 af Outflow=8.83 cfs 1.302 af
Reach DP-9: Design Point-9	Inflow=5.84 cfs 0.842 af Outflow=5.84 cfs 0.842 af
Reach DP12: Design Point-12	Avg. Flow Depth=0.16' Max Vel=4.63 fps Inflow=2.47 cfs 0.517 af n=0.040 L=10.0' S=0.2000 '/' Capacity=128.70 cfs Outflow=2.46 cfs 0.517 af

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

Reach R1.1: Mountain Stream

Avg. Flow Depth=0.27' Max Vel=5.53 fps Inflow=8.19 cfs 1.210 af
n=0.040 L=610.0' S=0.1475 '/' Capacity=639.78 cfs Outflow=8.06 cfs 1.210 af

Pond 11.3R: DP-11.1

Peak Elev=2,410.58' Storage=177 cf Inflow=5.82 cfs 1.087 af
72.0" Round Culvert x 2.00 n=0.025 L=120.0' S=0.1333 '/' Outflow=5.81 cfs 1.088 af

Pond 11.7R: Culvert

Peak Elev=1,891.49' Inflow=17.71 cfs 3.298 af
Outflow=17.71 cfs 3.298 af

Pond 11.9R: Culvert

Peak Elev=1,774.12' Storage=923 cf Inflow=17.67 cfs 3.298 af
Outflow=17.64 cfs 3.298 af

Total Runoff Area = 458.600 ac Runoff Volume = 15.369 af Average Runoff Depth = 0.40"
98.58% Pervious = 452.073 ac 1.42% Impervious = 6.527 ac

Summary for Subcatchment 1.1S: Area-1.1

Runoff = 8.19 cfs @ 12.25 hrs, Volume= 1.210 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
1,590,610	70	Woods, Good, HSG C
12,455	77	Woods, Good, HSG D
1,603,065	70	Weighted Average
1,603,065		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.6	75	0.1200	0.15		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
7.8	1,425	0.3700	3.04		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.4	545	0.2000	24.25	698.34	Trap/Vee/Rect Channel Flow, Mountain Stream Bot.W=4.50' D=3.00' Z= 1.7 '/' Top.W=14.70' n= 0.040 Mountain streams
0.6	1,060	0.1600	30.49	2,126.93	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=11.00' D=4.50' Z= 1.0 '/' Top.W=20.00' n= 0.040 Mountain streams
17.4	3,105	Total			

Summary for Subcatchment 1.2S: Area-1.2

Runoff = 4.41 cfs @ 12.21 hrs, Volume= 0.615 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
595,891	70	Woods, Good, HSG C
109,680	77	Woods, Good, HSG D
109,294	65	Brush, Good, HSG C
814,865	70	Weighted Average
814,865		100.00% Pervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 9

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	60	0.5000	0.25		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
10.0	1,690	0.3200	2.83		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.6	540	0.1800	15.23	141.68	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=5.00' D=1.33' Z= 1.5 '/' Top.W=8.99' n= 0.040 Mountain streams
0.6	575	0.0950	16.94	513.38	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=5.00' D=3.00' Z= 1.7 '/' Top.W=15.20' n= 0.040 Mountain streams
15.3	2,865	Total			

Summary for Subcatchment 1.3S: Area-1.3

Runoff = 3.08 cfs @ 12.35 hrs, Volume= 0.520 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
654,368	70	Woods, Good, HSG C
26,555	77	Woods, Good, HSG D
8,088	65	Brush, Good, HSG C
689,011	70	Weighted Average
689,011		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	75	0.3300	0.22		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
11.3	2,040	0.3600	3.00		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
3.0	140	0.1000	0.79		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
3.0	370	0.1700	2.06		Shallow Concentrated Flow, shallow concentrated flow: woods Woodland Kv= 5.0 fps
0.4	170	0.1000	6.67	37.22	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=3.00' D=0.70' Z= 7.1 '/' Top.W=12.94' n= 0.040 Mountain streams
23.4	2,795	Total			

Summary for Subcatchment 2aS: Area 2a

Runoff = 0.82 cfs @ 12.11 hrs, Volume= 0.097 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 10

Area (sf)	CN	Description
86,860	70	Woods, Good, HSG C
7,495	77	Woods, Good, HSG D
45,840	65	Brush, Good, HSG C
140,195	69	Weighted Average
140,195		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	90	0.0860	0.29		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
3.2	465	0.1230	2.45		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
8.4	555	Total			

Summary for Subcatchment 2bS: Area 2b

Runoff = 5.37 cfs @ 12.21 hrs, Volume= 0.788 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
919,510	70	Woods, Good, HSG C
215,010	65	Brush, Good, HSG C
1,134,520	69	Weighted Average
1,134,520		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.1	75	0.2800	0.20		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
8.4	1,215	0.2350	2.42		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
14.5	1,290	Total			

Summary for Subcatchment 2S: Area-2

Runoff = 5.87 cfs @ 12.34 hrs, Volume= 0.983 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
1,187,108	70	Woods, Good, HSG C
54,040	77	Woods, Good, HSG D
60,282	65	Brush, Good, HSG C
1,301,430	70	Weighted Average
1,301,430		100.00% Pervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 11

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.9	75	0.1467	0.16		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
8.1	1,435	0.3456	2.94		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.7	270	0.1600	6.00		Shallow Concentrated Flow, Shallow concentrated: Meadow Grassed Waterway Kv= 15.0 fps
4.5	630	0.2200	2.35		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
1.3	175	0.1040	2.26		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
0.4	275	0.2100	12.35	49.41	Trap/Vee/Rect Channel Flow, Mountain Stream Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Mountain streams
23.0	2,860	Total			

Summary for Subcatchment 3S: Area-3

Runoff = 3.02 cfs @ 12.21 hrs, Volume= 0.446 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
530,167	70	Woods, Good, HSG C
5,845	77	Woods, Good, HSG D
106,430	65	Brush, Good, HSG C
642,442	69	Weighted Average
642,442		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	75	0.2200	0.28		Sheet Flow, Sheet flow: meadow Grass: Dense n= 0.240 P2= 3.00"
5.5	975	0.3500	2.96		Shallow Concentrated Flow, Shallow concentrated : woods Woodland Kv= 5.0 fps
2.5	535	0.2500	3.50		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
2.1	400	0.4000	3.16		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.2	200	0.2000	18.83	84.73	Trap/Vee/Rect Channel Flow, DITCH Bot.W=1.50' D=1.50' Z= 1.0 '/' Top.W=4.50' n= 0.030 Earth, grassed & winding
14.8	2,185	Total			

Summary for Subcatchment 4S: Area-4

Runoff = 5.16 cfs @ 12.26 hrs, Volume= 0.777 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
537,225	70	Woods, Good, HSG C
491,385	70	Woods, Good, HSG C
1,028,610	70	Weighted Average
1,028,610		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	75	0.2700	0.30		Sheet Flow, meadow Grass: Dense n= 0.240 P2= 3.00"
3.0	595	0.2200	3.28		Shallow Concentrated Flow, meadow Short Grass Pasture Kv= 7.0 fps
10.9	1,885	0.3300	2.87		Shallow Concentrated Flow, WOODS/MEADOW Woodland Kv= 5.0 fps
0.2	200	0.2000	17.67	211.99	Trap/Vee/Rect Channel Flow, EX DITCH Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
18.2	2,755	Total			

Summary for Subcatchment 5S: Area-5

Runoff = 7.70 cfs @ 12.21 hrs, Volume= 1.079 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
1,291,330	70	Woods, Good, HSG C
52,915	77	Woods, Good, HSG D
84,585	65	Brush, Good, HSG C
1,428,830	70	Weighted Average
1,428,830		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	60	0.3800	0.22		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
10.0	1,730	0.3300	2.87		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.9	835	0.1500	15.66	203.63	Trap/Vee/Rect Channel Flow, Bot.W=2.50' D=2.00' Z= 2.0 '/' Top.W=10.50' n= 0.040 Earth, cobble bottom, clean sides
15.4	2,625	Total			

Summary for Subcatchment 6S: Area-6

Runoff = 0.38 cfs @ 12.14 hrs, Volume= 0.070 af, Depth= 0.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
145,690	65	Brush, Good, HSG C
145,690		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.1	75	0.1600	0.25		Sheet Flow, Sheet flow: Meadow Grass: Dense n= 0.240 P2= 3.00"
0.5	185	0.1500	5.81		Shallow Concentrated Flow, Shallow concentrated: Meadow Grassed Waterway Kv= 15.0 fps
1.3	250	0.2000	3.13		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
6.9	510	Total			

Summary for Subcatchment 7S: Area-7

Runoff = 0.53 cfs @ 12.12 hrs, Volume= 0.095 af, Depth= 0.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
197,522	65	Brush, Good, HSG C
197,522		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	58	0.1800	0.24		Sheet Flow, Sheet flow: Meadow Grass: Dense n= 0.240 P2= 3.00"
1.9	350	0.2000	3.13		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
5.9	408	Total			

Summary for Subcatchment 8.1S: Area-8

Runoff = 2.87 cfs @ 12.16 hrs, Volume= 0.413 af, Depth= 0.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 14

Area (sf)	CN	Description
334,862	70	Woods, Good, HSG C
11,266	77	Woods, Good, HSG D
303,022	65	Brush, Good, HSG C
649,150	68	Weighted Average
649,150		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	75	0.1700	0.17		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.7	310	0.1900	3.05		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
1.8	1,320	0.1000	12.49	149.90	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Mountain streams

11.0 1,705 Total

Summary for Subcatchment 8.2S: Area-8.2

Runoff = 6.53 cfs @ 12.20 hrs, Volume= 0.889 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
1,116,405	70	Woods, Good, HSG C
19,084	77	Woods, Good, HSG D
15,820	65	Brush, Good, HSG C
26,111	71	Meadow, non-grazed, HSG C
1,177,420	70	Weighted Average
1,177,420		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	75	0.2400	0.19		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
6.9	1,210	0.3400	2.92		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.9	595	0.0780	11.03	132.39	Trap/Vee/Rect Channel Flow, SWALE Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Mountain streams

14.3 1,880 Total

Summary for Subcatchment 9S: Area-9

Runoff = 5.84 cfs @ 12.20 hrs, Volume= 0.842 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
16,935	98	Paved parking, HSG C
10,120	98	Roofs, HSG C
834,708	70	Woods, Good, HSG C
6,220	77	Woods, Good, HSG D
344,889	65	Brush, Good, HSG C
1,212,872	69	Weighted Average
1,185,817		97.77% Pervious Area
27,055		2.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	75	0.2900	0.21		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.3	245	0.4000	3.16		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
6.5	1,385	0.2600	3.57		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
13.8	1,705	Total			

Summary for Subcatchment 11.1S: Area-11.1

Runoff = 4.72 cfs @ 12.32 hrs, Volume= 0.773 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
908,457	70	Woods, Good, HSG C
114,680	71	Meadow, non-grazed, HSG C
1,023,137	70	Weighted Average
1,023,137		100.00% Pervious Area

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Page 16

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	75	0.1800	0.17		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.8	275	0.2500	2.50		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
2.3	410	0.1800	2.97		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
8.1	1,358	0.3110	2.79		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
2.3	380	0.1600	2.80		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
0.1	142	0.4000	36.21	2,230.45	Trap/Vee/Rect Channel Flow, Bot.W=15.00' D=4.00' Z= 0.1 '/' Top.W=15.80' n= 0.050 Mountain streams w/large boulders
21.9	2,640	Total			

Summary for Subcatchment 11.2S: Area-11.2

Runoff = 5.82 cfs @ 12.45 hrs, Volume= 1.087 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
1,218,126	70	Woods, Good, HSG C
19,210	77	Woods, Good, HSG D
202,670	71	Meadow, non-grazed, HSG C
1,440,006	70	Weighted Average
1,440,006		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	75	0.0933	0.08		Sheet Flow, Sheet flow: Woods Woods: Dense underbrush n= 0.800 P2= 3.00"
4.4	575	0.0960	2.17		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
5.3	885	0.3110	2.79		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
2.2	355	0.2817	2.65		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.8	830	0.2600	17.15	128.61	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Mountain streams
29.3	2,720	Total			

Summary for Subcatchment 11.3S: Area-11.3

Runoff = 16.76 cfs @ 12.42 hrs, Volume= 2.730 af, Depth= 0.50"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,326,081	70	Woods, Good, HSG C
80,446	74	>75% Grass cover, Good, HSG C
257,243	98	Paved parking & roofs
73,710	77	Woods, Good, HSG D
123,467	71	Meadow, non-grazed, HSG C
2,860,947	73	Weighted Average
2,603,704		91.01% Pervious Area
257,243		8.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	75	0.1133	0.21		Sheet Flow, Sheet flow: Meadow Grass: Dense n= 0.240 P2= 3.00"
4.7	1,038	0.2800	3.70		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
8.9	1,412	0.2800	2.65		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.8	127	0.1500	2.71		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
2.8	450	0.2800	2.65		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
3.0	395	0.0250	2.17	23.92	Trap/Vee/Rect Channel Flow, stream Bot.W=1.00' D=1.00' Z= 10.0 '/' Top.W=21.00' n= 0.070 Sluggish weedy reaches w/pools
0.8	300	0.0250	5.95	71.40	Trap/Vee/Rect Channel Flow, stream Bot.W=1.00' D=2.00' Z= 2.5 '/' Top.W=11.00' n= 0.040 Winding stream, pools & shoals
1.2	720	0.0250	9.97	996.95	Trap/Vee/Rect Channel Flow, stream Bot.W=10.00' D=5.00' Z= 2.0 '/' Top.W=30.00' n= 0.050 Mountain streams w/large boulders
0.1	45	0.0500	13.29	167.02	Pipe Channel, culvert 48.0" Round Area= 12.6 sf Perim= 12.6' r= 1.00' n= 0.025 Corrugated metal
0.1	360	0.3100	53.27	13,317.10	Trap/Vee/Rect Channel Flow, stream Bot.W=15.00' D=10.00' Z= 1.0 '/' Top.W=35.00' n= 0.050 Mountain streams w/large boulders
0.1	90	0.0500	19.28	378.54	Pipe Channel, culvert 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.020 Corrugated PE, corrugated interior
0.6	393	0.0280	10.52	1,068.46	Trap/Vee/Rect Channel Flow, Bot.W=25.00' D=4.00' Z= 0.1 '/' Top.W=25.80' n= 0.050 Mountain streams w/large boulders
29.0	5,405	Total			

Summary for Subcatchment 11.4S: Area-11.4

Runoff = 4.63 cfs @ 12.26 hrs, Volume= 0.697 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
718,603	70	Woods, Good, HSG C
35,806	77	Woods, Good, HSG D
43,994	65	Brush, Good, HSG C
124,114	71	Meadow, non-grazed, HSG C
922,517	70	Weighted Average
922,517		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	75	0.3200	0.22		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.8	330	0.2000	3.13		Shallow Concentrated Flow, Shallow concentrated:ski trail Short Grass Pasture Kv= 7.0 fps
2.9	516	0.3500	2.96		Shallow Concentrated Flow, Shallow concentrated:woods Woodland Kv= 5.0 fps
0.7	130	0.1800	2.97		Shallow Concentrated Flow, ski trail Short Grass Pasture Kv= 7.0 fps
6.3	1,055	0.3100	2.78		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.5	500	0.2300	15.72	206.39	Trap/Vee/Rect Channel Flow, stream Bot.W=2.00' D=1.50' Z= 4.5 '/' Top.W=15.50' n= 0.040 Mountain streams
18.0	2,606	Total			

Summary for Subcatchment 11.6S: Area-11.6

Runoff = 2.24 cfs @ 12.20 hrs, Volume= 0.280 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
239,255	70	Woods, Good, HSG C
76,880	77	Woods, Good, HSG D
316,135	72	Weighted Average
316,135		100.00% Pervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 19

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	50	0.1700	0.34		Sheet Flow, Sheet flow Grass: Short n= 0.150 P2= 3.00"
3.8	50	0.4000	0.22		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
4.1	720	0.3500	2.96		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
1.3	140	0.1200	1.73		Shallow Concentrated Flow, Shallow concentrated: Wetland Woodland Kv= 5.0 fps
3.5	530	0.2600	2.55		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
15.2	1,490	Total			

Summary for Subcatchment 11.7S: Area-11.7

Runoff = 2.34 cfs @ 12.22 hrs, Volume= 0.315 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
292,104	70	Woods, Good, HSG C
23,860	77	Woods, Good, HSG D
68,636	71	Meadow, non-grazed, HSG C
384,600	71	Weighted Average
384,600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	75	0.1700	0.17		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
2.5	435	0.3500	2.96		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
1.0	200	0.2200	3.28		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
4.6	723	0.2800	2.65		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.5	360	0.2300	11.54	126.95	Trap/Vee/Rect Channel Flow, Bot.W=1.00' D=1.00' Z= 10.0 '/' Top.W=21.00' n= 0.040 Mountain streams
16.1	1,793	Total			

Summary for Subcatchment 11.8S: Area-11.8

Runoff = 0.61 cfs @ 12.11 hrs, Volume= 0.068 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 20

Area (sf)	CN	Description
66,892	70	Woods, Good, HSG C
1,380	77	Woods, Good, HSG D
21,888	71	Meadow, non-grazed, HSG C
90,160	70	Weighted Average
90,160		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	75	0.1800	0.26		Sheet Flow, Sheet flow: Woods Grass: Dense n= 0.240 P2= 3.00"
3.8	575	0.2500	2.50		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.1	100	0.2500	12.03	132.35	Trap/Vee/Rect Channel Flow, Bot.W=1.00' D=1.00' Z= 10.0 ' /' Top.W=21.00' n= 0.040 Winding stream, pools & shoals

8.8 750 Total

Summary for Subcatchment 11.9S: Area-11.9

Runoff = 0.68 cfs @ 12.16 hrs, Volume= 0.079 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
69,494	70	Woods, Good, HSG C
19,860	77	Woods, Good, HSG D
89,354	72	Weighted Average
89,354		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	75	0.1700	0.17		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
5.3	911	0.3300	2.87		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.1	98	0.2300	11.54	126.95	Trap/Vee/Rect Channel Flow, Bot.W=1.00' D=1.00' Z= 10.0 ' /' Top.W=21.00' n= 0.040 Mountain streams

12.9 1,084 Total

Summary for Subcatchment 12.1S: Area-12.1

Runoff = 2.47 cfs @ 12.60 hrs, Volume= 0.517 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 21

Area (sf)	CN	Description
14,955	77	Woods, Good, HSG D
669,185	70	Woods, Good, HSG C
684,140	70	Weighted Average
684,140		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	75	0.1600	0.16		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
29.6	1,685	0.0360	0.95		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.3	235	0.1600	14.19	118.17	Trap/Vee/Rect Channel Flow, stream/wetland Bot.W=3.00' D=1.50' Z= 1.7 '/' Top.W=8.10' n= 0.040 Mountain streams
37.6	1,995	Total			

Summary for Reach 8.1R: Mountain stream

Inflow Area = 27.030 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
 Inflow = 6.53 cfs @ 12.20 hrs, Volume= 0.889 af
 Outflow = 6.40 cfs @ 12.27 hrs, Volume= 0.889 af, Atten= 2%, Lag= 4.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Max. Velocity= 6.64 fps, Min. Travel Time= 2.1 min
 Avg. Velocity= 2.86 fps, Avg. Travel Time= 5.0 min

Peak Storage= 824 cf @ 12.22 hrs
 Average Depth at Peak Storage= 0.32'
 Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 193.86 cfs

2.50' x 2.00' deep channel, n= 0.040 Mountain streams
 Side Slope Z-value= 1.5 '/' Top Width= 8.50'
 Length= 850.0' Slope= 0.1906 '/'
 Inlet Invert= 1,816.00', Outlet Invert= 1,654.00'



Summary for Reach 11.10R: Mountain stream

Inflow Area = 97.932 ac, 0.00% Impervious, Inflow Depth = 0.40" for 1-yr Local event
 Inflow = 17.64 cfs @ 12.52 hrs, Volume= 3.298 af
 Outflow = 17.55 cfs @ 12.56 hrs, Volume= 3.298 af, Atten= 0%, Lag= 2.7 min

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 22

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.47 fps, Min. Travel Time= 1.5 min
Avg. Velocity = 2.12 fps, Avg. Travel Time= 3.1 min

Peak Storage= 1,545 cf @ 12.54 hrs
Average Depth at Peak Storage= 0.16'
Bank-Full Depth= 4.00' Flow Area= 101.6 sf, Capacity= 3,320.07 cfs

25.00' x 4.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 0.1 '/' Top Width= 25.80'
Length= 393.0' Slope= 0.1730 '/'
Inlet Invert= 1,768.00', Outlet Invert= 1,700.00'



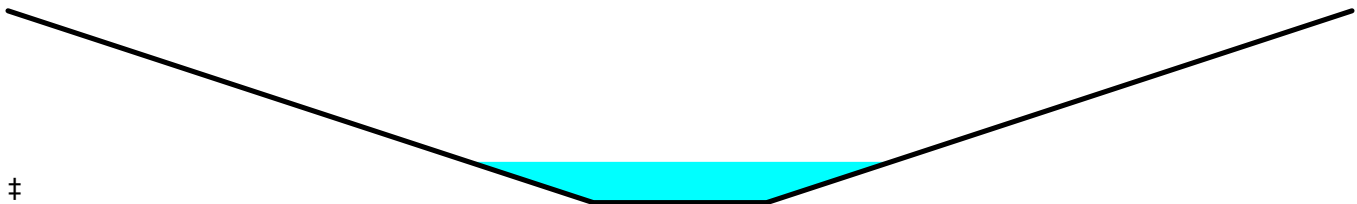
Summary for Reach 11.1aR: Mountain stream-DP 11.7

Inflow Area = 28.436 ac, 0.00% Impervious, Inflow Depth = 0.41" for 1-yr Local event
Inflow = 6.60 cfs @ 12.26 hrs, Volume= 0.976 af
Outflow = 6.46 cfs @ 12.35 hrs, Volume= 0.976 af, Atten= 2%, Lag= 5.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.91 fps, Min. Travel Time= 2.7 min
Avg. Velocity = 2.78 fps, Avg. Travel Time= 5.7 min

Peak Storage= 1,042 cf @ 12.30 hrs
Average Depth at Peak Storage= 0.32'
Bank-Full Depth= 1.50' Flow Area= 13.1 sf, Capacity= 186.80 cfs

2.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.5 '/' Top Width= 15.50'
Length= 950.0' Slope= 0.1884 '/'
Inlet Invert= 2,169.00', Outlet Invert= 1,990.00'



‡

Summary for Reach 11.1R: Mountain stream-DP 11.6

Inflow Area = 21.178 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 4.63 cfs @ 12.26 hrs, Volume= 0.697 af
Outflow = 4.56 cfs @ 12.29 hrs, Volume= 0.697 af, Atten= 1%, Lag= 2.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.22 fps, Min. Travel Time= 1.0 min
Avg. Velocity = 2.58 fps, Avg. Travel Time= 2.0 min

Peak Storage= 274 cf @ 12.27 hrs
Average Depth at Peak Storage= 0.27'
Bank-Full Depth= 1.50' Flow Area= 13.1 sf, Capacity= 179.61 cfs

2.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.5 '/ Top Width= 15.50'
Length= 310.0' Slope= 0.1742 '/
Inlet Invert= 2,224.00', Outlet Invert= 2,170.00'



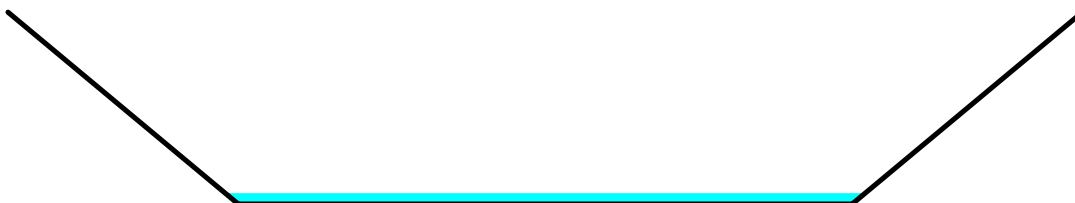
Summary for Reach 11.3aR: Bouldery stream

Inflow Area = 33.058 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 5.81 cfs @ 12.46 hrs, Volume= 1.088 af
Outflow = 5.80 cfs @ 12.47 hrs, Volume= 1.088 af, Atten= 0%, Lag= 0.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.02 fps, Min. Travel Time= 0.5 min
Avg. Velocity = 2.37 fps, Avg. Travel Time= 1.0 min

Peak Storage= 164 cf @ 12.46 hrs
Average Depth at Peak Storage= 0.14'
Bank-Full Depth= 2.50' Flow Area= 27.5 sf, Capacity= 748.92 cfs

8.00' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.2 '/ Top Width= 14.00'
Length= 142.0' Slope= 0.4014 '/
Inlet Invert= 2,390.00', Outlet Invert= 2,333.00'



Summary for Reach 11.4aR: DP11.3

Inflow Area = 58.616 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 10.30 cfs @ 12.44 hrs, Volume= 1.928 af
Outflow = 10.28 cfs @ 12.46 hrs, Volume= 1.928 af, Atten= 0%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.16 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 2.87 fps, Avg. Travel Time= 1.3 min

Peak Storage= 368 cf @ 12.45 hrs
Average Depth at Peak Storage= 0.22'
Bank-Full Depth= 2.50' Flow Area= 35.0 sf, Capacity= 858.32 cfs

7.00' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.8 '/ Top Width= 21.00'
Length= 220.0' Slope= 0.3636 '/
Inlet Invert= 2,292.00', Outlet Invert= 2,212.00'



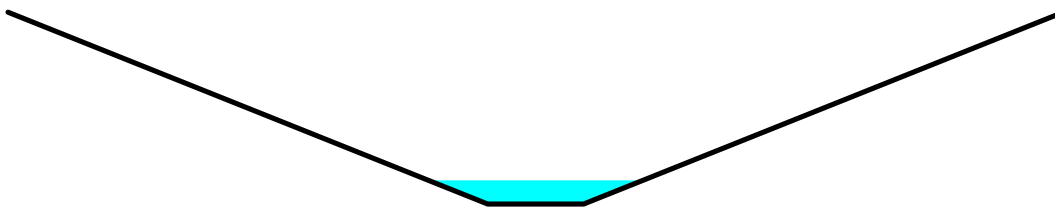
Summary for Reach 11.4bR: DP11.4

Inflow Area = 8.829 ac, 0.00% Impervious, Inflow Depth = 0.43" for 1-yr Local event
Inflow = 2.34 cfs @ 12.22 hrs, Volume= 0.315 af
Outflow = 2.31 cfs @ 12.23 hrs, Volume= 0.315 af, Atten= 1%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.85 fps, Min. Travel Time= 0.4 min
Avg. Velocity = 2.85 fps, Avg. Travel Time= 0.8 min

Peak Storage= 58 cf @ 12.22 hrs
Average Depth at Peak Storage= 0.25'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 231.18 cfs

1.00' x 2.00' deep channel, n= 0.040 Winding stream, pools & shoals
Side Slope Z-value= 2.5 '/ Top Width= 11.00'
Length= 145.0' Slope= 0.2621 '/
Inlet Invert= 2,250.00', Outlet Invert= 2,212.00'



Summary for Reach 11.4R: DP-11.2

Inflow Area = 56.546 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 10.06 cfs @ 12.41 hrs, Volume= 1.860 af
Outflow = 10.02 cfs @ 12.44 hrs, Volume= 1.860 af, Atten= 0%, Lag= 1.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.52 fps, Min. Travel Time= 1.0 min
Avg. Velocity = 2.09 fps, Avg. Travel Time= 2.1 min

Peak Storage= 593 cf @ 12.42 hrs
Average Depth at Peak Storage= 0.27'
Bank-Full Depth= 2.50' Flow Area= 35.0 sf, Capacity= 558.40 cfs

7.50' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.6 '/ Top Width= 20.50'
Length= 267.0' Slope= 0.1498 '/
Inlet Invert= 2,332.00', Outlet Invert= 2,292.00'



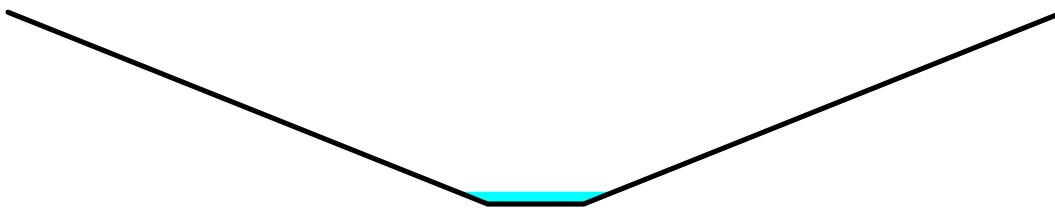
Summary for Reach 11.5aR: DP11.5

Inflow Area = 2.051 ac, 0.00% Impervious, Inflow Depth = 0.46" for 1-yr Local event
Inflow = 0.68 cfs @ 12.16 hrs, Volume= 0.079 af
Outflow = 0.65 cfs @ 12.25 hrs, Volume= 0.079 af, Atten= 4%, Lag= 5.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.88 fps, Min. Travel Time= 2.7 min
Avg. Velocity = 1.73 fps, Avg. Travel Time= 6.0 min

Peak Storage= 105 cf @ 12.20 hrs
Average Depth at Peak Storage= 0.13'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 217.63 cfs

1.00' x 2.00' deep channel, n= 0.040 Winding stream, pools & shoals
Side Slope Z-value= 2.5 '/ Top Width= 11.00'
Length= 620.0' Slope= 0.2323 '/
Inlet Invert= 2,254.00', Outlet Invert= 2,110.00'



Summary for Reach 11.5R: Mountain stream

Inflow Area = 67.445 ac, 0.00% Impervious, Inflow Depth = 0.40" for 1-yr Local event
Inflow = 11.92 cfs @ 12.43 hrs, Volume= 2.243 af
Outflow = 11.89 cfs @ 12.47 hrs, Volume= 2.243 af, Atten= 0%, Lag= 2.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.06 fps, Min. Travel Time= 1.5 min
Avg. Velocity = 2.62 fps, Avg. Travel Time= 2.9 min

Peak Storage= 1,071 cf @ 12.45 hrs
Average Depth at Peak Storage= 0.16'
Bank-Full Depth= 5.00' Flow Area= 92.5 sf, Capacity= 3,678.81 cfs

15.00' x 5.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 0.7 '/ Top Width= 22.00'
Length= 455.0' Slope= 0.2242 '/
Inlet Invert= 2,212.00', Outlet Invert= 2,110.00'



Summary for Reach 11.6aR: Mountain stream

Inflow Area = 97.932 ac, 0.00% Impervious, Inflow Depth = 0.40" for 1-yr Local event
Inflow = 17.78 cfs @ 12.46 hrs, Volume= 3.298 af
Outflow = 17.71 cfs @ 12.48 hrs, Volume= 3.298 af, Atten= 0%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.03 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 3.33 fps, Avg. Travel Time= 1.2 min

Peak Storage= 619 cf @ 12.47 hrs
Average Depth at Peak Storage= 0.24'
Bank-Full Depth= 5.00' Flow Area= 100.0 sf, Capacity= 3,987.80 cfs

10.00' x 5.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.0 '/ Top Width= 30.00'
Length= 245.0' Slope= 0.4000 '/
Inlet Invert= 1,990.00', Outlet Invert= 1,892.00'



Summary for Reach 11.6R: Mountain stream

Inflow Area = 69.496 ac, 0.00% Impervious, Inflow Depth = 0.40" for 1-yr Local event
Inflow = 12.30 cfs @ 12.47 hrs, Volume= 2.322 af
Outflow = 12.24 cfs @ 12.52 hrs, Volume= 2.322 af, Atten= 0%, Lag= 2.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.30 fps, Min. Travel Time= 1.5 min
Avg. Velocity = 2.54 fps, Avg. Travel Time= 3.1 min

Peak Storage= 1,100 cf @ 12.49 hrs
Average Depth at Peak Storage= 0.22'
Bank-Full Depth= 5.00' Flow Area= 100.0 sf, Capacity= 3,155.95 cfs

10.00' x 5.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.0 '/' Top Width= 30.00'
Length= 475.0' Slope= 0.2505 '/'
Inlet Invert= 2,109.00', Outlet Invert= 1,990.00'



Summary for Reach 11.8R: Mountain stream

Inflow Area = 97.932 ac, 0.00% Impervious, Inflow Depth = 0.40" for 1-yr Local event
Inflow = 17.71 cfs @ 12.48 hrs, Volume= 3.298 af
Outflow = 17.67 cfs @ 12.51 hrs, Volume= 3.298 af, Atten= 0%, Lag= 2.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.71 fps, Min. Travel Time= 1.1 min
Avg. Velocity = 3.67 fps, Avg. Travel Time= 1.6 min

Peak Storage= 1,117 cf @ 12.49 hrs
Average Depth at Peak Storage= 0.20'
Bank-Full Depth= 10.00' Flow Area= 250.0 sf, Capacity= 13,400.37 cfs

15.00' x 10.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 35.00'
Length= 360.0' Slope= 0.3139 '/'
Inlet Invert= 1,887.00', Outlet Invert= 1,774.00'



Summary for Reach DP-1: Design Point-1

Inflow Area = 55.508 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 12.01 cfs @ 12.28 hrs, Volume= 1.826 af
Outflow = 12.01 cfs @ 12.28 hrs, Volume= 1.826 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.88 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 2.53 fps, Avg. Travel Time= 0.1 min

Peak Storage= 20 cf @ 12.28 hrs
Average Depth at Peak Storage= 0.28'
Bank-Full Depth= 3.00' Flow Area= 30.0 sf, Capacity= 670.80 cfs

7.00' x 3.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.0 '/' Top Width= 13.00'
Length= 10.0' Slope= 0.1500 '/'
Inlet Invert= 0.00', Outlet Invert= -1.50'



Summary for Reach DP-11: Design Point-11

Inflow Area = 163.610 ac, 3.61% Impervious, Inflow Depth = 0.44" for 1-yr Local event
Inflow = 33.07 cfs @ 12.50 hrs, Volume= 6.028 af
Outflow = 33.07 cfs @ 12.50 hrs, Volume= 6.028 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-1a: Design Point-1a

Inflow Area = 15.818 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 3.08 cfs @ 12.35 hrs, Volume= 0.520 af
Outflow = 3.08 cfs @ 12.35 hrs, Volume= 0.520 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.68 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 1.76 fps, Avg. Travel Time= 0.1 min

Peak Storage= 8 cf @ 12.35 hrs
Average Depth at Peak Storage= 0.22'
Bank-Full Depth= 1.25' Flow Area= 10.0 sf, Capacity= 97.10 cfs

3.00' x 1.25' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.0 '/' Top Width= 13.00'
Length= 10.0' Slope= 0.1000 '/'
Inlet Invert= 0.00', Outlet Invert= -1.00'



Summary for Reach DP-2: Design Point-2

Inflow Area = 29.877 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 5.87 cfs @ 12.34 hrs, Volume= 0.983 af
Outflow = 5.86 cfs @ 12.34 hrs, Volume= 0.983 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.56 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 2.48 fps, Avg. Travel Time= 0.1 min

Peak Storage= 11 cf @ 12.34 hrs
Average Depth at Peak Storage= 0.21'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 233.42 cfs

5.00' x 2.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 0.5 '/' Top Width= 7.00'
Length= 10.0' Slope= 0.2000 '/'
Inlet Invert= 0.00', Outlet Invert= -2.00'



Summary for Reach DP-2a: Design Point 2a

Inflow Area = 3.218 ac, 0.00% Impervious, Inflow Depth = 0.36" for 1-yr Local event
Inflow = 0.82 cfs @ 12.11 hrs, Volume= 0.097 af
Outflow = 0.82 cfs @ 12.11 hrs, Volume= 0.097 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-2b: Design Point 2b

Inflow Area = 26.045 ac, 0.00% Impervious, Inflow Depth = 0.36" for 1-yr Local event
Inflow = 5.37 cfs @ 12.21 hrs, Volume= 0.788 af
Outflow = 5.37 cfs @ 12.21 hrs, Volume= 0.788 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-3: Design Point-3

Inflow Area = 14.748 ac, 0.00% Impervious, Inflow Depth = 0.36" for 1-yr Local event
Inflow = 3.02 cfs @ 12.21 hrs, Volume= 0.446 af
Outflow = 3.02 cfs @ 12.21 hrs, Volume= 0.446 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-4: Design Point-4

Inflow Area = 23.614 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 5.16 cfs @ 12.26 hrs, Volume= 0.777 af
Outflow = 5.16 cfs @ 12.26 hrs, Volume= 0.777 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-5: Design Point-5

Inflow Area = 32.801 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 7.70 cfs @ 12.21 hrs, Volume= 1.079 af
Outflow = 7.70 cfs @ 12.21 hrs, Volume= 1.079 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-6: Design Point-6

Inflow Area = 3.345 ac, 0.00% Impervious, Inflow Depth = 0.25" for 1-yr Local event
Inflow = 0.38 cfs @ 12.14 hrs, Volume= 0.070 af
Outflow = 0.38 cfs @ 12.14 hrs, Volume= 0.070 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-7: Design Point-7

Inflow Area = 4.534 ac, 0.00% Impervious, Inflow Depth = 0.25" for 1-yr Local event
Inflow = 0.53 cfs @ 12.12 hrs, Volume= 0.095 af
Outflow = 0.53 cfs @ 12.12 hrs, Volume= 0.095 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-8: Design Point-8

Inflow Area = 41.932 ac, 0.00% Impervious, Inflow Depth = 0.37" for 1-yr Local event
Inflow = 8.83 cfs @ 12.25 hrs, Volume= 1.302 af
Outflow = 8.83 cfs @ 12.25 hrs, Volume= 1.302 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-9: Design Point-9

Inflow Area = 27.844 ac, 2.23% Impervious, Inflow Depth = 0.36" for 1-yr Local event
Inflow = 5.84 cfs @ 12.20 hrs, Volume= 0.842 af
Outflow = 5.84 cfs @ 12.20 hrs, Volume= 0.842 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP12: Design Point-12

Inflow Area = 15.706 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 2.47 cfs @ 12.60 hrs, Volume= 0.517 af
Outflow = 2.46 cfs @ 12.60 hrs, Volume= 0.517 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.63 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 2.24 fps, Avg. Travel Time= 0.1 min

Peak Storage= 5 cf @ 12.60 hrs
Average Depth at Peak Storage= 0.16'
Bank-Full Depth= 1.50' Flow Area= 8.1 sf, Capacity= 128.70 cfs

3.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.6 '/' Top Width= 7.80'
Length= 10.0' Slope= 0.2000 '/'
Inlet Invert= 0.00', Outlet Invert= -2.00'



Summary for Reach R1.1: Mountain Stream

Inflow Area = 36.801 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
Inflow = 8.19 cfs @ 12.25 hrs, Volume= 1.210 af
Outflow = 8.06 cfs @ 12.31 hrs, Volume= 1.210 af, Atten= 2%, Lag= 3.4 min

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 32

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Max. Velocity= 5.53 fps, Min. Travel Time= 1.8 min
 Avg. Velocity = 2.42 fps, Avg. Travel Time= 4.2 min

Peak Storage= 897 cf @ 12.27 hrs
 Average Depth at Peak Storage= 0.27'
 Bank-Full Depth= 3.00' Flow Area= 30.3 sf, Capacity= 639.78 cfs

5.00' x 3.00' deep channel, n= 0.040 Mountain streams
 Side Slope Z-value= 1.7 '/' Top Width= 15.20'
 Length= 610.0' Slope= 0.1475 '/'
 Inlet Invert= 2,200.00', Outlet Invert= 2,110.00'



Summary for Pond 11.3R: DP-11.1

Inflow Area = 33.058 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-yr Local event
 Inflow = 5.82 cfs @ 12.45 hrs, Volume= 1.087 af
 Outflow = 5.81 cfs @ 12.46 hrs, Volume= 1.088 af, Atten= 0%, Lag= 0.3 min
 Primary = 5.81 cfs @ 12.46 hrs, Volume= 1.088 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 2,410.58' @ 12.46 hrs Surf.Area= 306 sf Storage= 177 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 1.0 min (954.8 - 953.7)

Volume	Invert	Avail.Storage	Storage Description
#1	2,410.00'	3,500 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,410.00	300	0	0
2,420.00	400	3,500	3,500

Device	Routing	Invert	Outlet Devices
#1	Primary	2,410.00'	72.0" Round Culvert X 2.00 L= 120.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 2,410.00' / 2,394.00' S= 0.1333 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 28.27 sf

Primary OutFlow Max=5.78 cfs @ 12.46 hrs HW=2,410.58' (Free Discharge)
 ↑1=Culvert (Inlet Controls 5.78 cfs @ 2.05 fps)

Summary for Pond 11.7R: Culvert

Inflow Area = 97.932 ac, 0.00% Impervious, Inflow Depth = 0.40" for 1-yr Local event
 Inflow = 17.71 cfs @ 12.48 hrs, Volume= 3.298 af
 Outflow = 17.71 cfs @ 12.48 hrs, Volume= 3.298 af, Atten= 0%, Lag= 0.0 min
 Primary = 17.71 cfs @ 12.48 hrs, Volume= 3.298 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,891.49' @ 12.48 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,890.00'	48.0" Round Culvert L= 45.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,890.00' / 1,888.00' S= 0.0444 1/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf
#2	Primary	1,895.00'	15.0' long x 35.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=17.66 cfs @ 12.48 hrs HW=1,891.49' (Free Discharge)

- 1=Culvert (Inlet Controls 17.66 cfs @ 4.15 fps)
- 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 11.9R: Culvert

Inflow Area = 97.932 ac, 0.00% Impervious, Inflow Depth = 0.40" for 1-yr Local event
 Inflow = 17.67 cfs @ 12.51 hrs, Volume= 3.298 af
 Outflow = 17.64 cfs @ 12.52 hrs, Volume= 3.298 af, Atten= 0%, Lag= 0.5 min
 Primary = 17.64 cfs @ 12.52 hrs, Volume= 3.298 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,774.12' @ 12.52 hrs Surf.Area= 845 sf Storage= 923 cf

Plug-Flow detention time= 1.8 min calculated for 3.297 af (100% of inflow)
 Center-of-Mass det. time= 1.9 min (963.0 - 961.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,773.00'	10,000 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,773.00	800	0	0
1,783.00	1,200	10,000	10,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,773.00'	60.0" Round Culvert L= 90.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,773.00' / 1,767.00' S= 0.0667 1/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 19.63 sf
#2	Primary	1,773.00'	48.0" Round Culvert L= 90.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,773.00' / 1,770.00' S= 0.0333 1/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 34

Primary OutFlow Max=17.55 cfs @ 12.52 hrs HW=1,774.12' (Free Discharge)

└1=Culvert (Inlet Controls 9.35 cfs @ 2.85 fps)

└2=Culvert (Inlet Controls 8.20 cfs @ 2.85 fps)

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1.1S: Area-1.1	Runoff Area=1,603,065 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=3,105' Tc=17.4 min CN=70 Runoff=40.52 cfs 4.577 af
Subcatchment 1.2S: Area-1.2	Runoff Area=814,865 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=2,865' Tc=15.3 min CN=70 Runoff=21.90 cfs 2.326 af
Subcatchment 1.3S: Area-1.3	Runoff Area=689,011 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=2,795' Tc=23.4 min CN=70 Runoff=15.19 cfs 1.967 af
Subcatchment 2aS: Area 2a	Runoff Area=140,195 sf 0.00% Impervious Runoff Depth=1.43" Flow Length=555' Tc=8.4 min CN=69 Runoff=4.41 cfs 0.382 af
Subcatchment 2bS: Area 2b	Runoff Area=1,134,520 sf 0.00% Impervious Runoff Depth=1.43" Flow Length=1,290' Tc=14.5 min CN=69 Runoff=29.35 cfs 3.093 af
Subcatchment 2S: Area-2	Runoff Area=1,301,430 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=2,860' Tc=23.0 min CN=70 Runoff=28.91 cfs 3.715 af
Subcatchment 3S: Area-3	Runoff Area=642,442 sf 0.00% Impervious Runoff Depth=1.43" Flow Length=2,185' Tc=14.8 min CN=69 Runoff=16.52 cfs 1.752 af
Subcatchment 4S: Area-4	Runoff Area=1,028,610 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=2,755' Tc=18.2 min CN=70 Runoff=25.50 cfs 2.937 af
Subcatchment 5S: Area-5	Runoff Area=1,428,830 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=2,625' Tc=15.4 min CN=70 Runoff=37.92 cfs 4.079 af
Subcatchment 6S: Area-6	Runoff Area=145,690 sf 0.00% Impervious Runoff Depth=1.17" Flow Length=510' Tc=6.9 min CN=65 Runoff=3.90 cfs 0.326 af
Subcatchment 7S: Area-7	Runoff Area=197,522 sf 0.00% Impervious Runoff Depth=1.17" Flow Length=408' Tc=5.9 min CN=65 Runoff=5.50 cfs 0.442 af
Subcatchment 8.1S: Area-8	Runoff Area=649,150 sf 0.00% Impervious Runoff Depth=1.36" Flow Length=1,705' Tc=11.0 min CN=68 Runoff=17.84 cfs 1.688 af
Subcatchment 8.2S: Area-8.2	Runoff Area=1,177,420 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=1,880' Tc=14.3 min CN=70 Runoff=32.42 cfs 3.361 af
Subcatchment 9S: Area-9	Runoff Area=1,212,872 sf 2.23% Impervious Runoff Depth=1.43" Flow Length=1,705' Tc=13.8 min CN=69 Runoff=32.09 cfs 3.307 af
Subcatchment 11.1S: Area-11.1	Runoff Area=1,023,137 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=2,640' Tc=21.9 min CN=70 Runoff=23.23 cfs 2.921 af
Subcatchment 11.2S: Area-11.2	Runoff Area=1,440,006 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=2,720' Tc=29.3 min CN=70 Runoff=28.42 cfs 4.111 af

Subcatchment 11.3S: Area-11.3	Runoff Area=2,860,947 sf 8.99% Impervious Runoff Depth=1.70" Flow Length=5,405' Tc=29.0 min CN=73 Runoff=66.25 cfs 9.315 af
Subcatchment 11.4S: Area-11.4	Runoff Area=922,517 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=2,606' Tc=18.0 min CN=70 Runoff=22.95 cfs 2.634 af
Subcatchment 11.6S: Area-11.6	Runoff Area=316,135 sf 0.00% Impervious Runoff Depth=1.63" Flow Length=1,490' Tc=15.2 min CN=72 Runoff=9.43 cfs 0.986 af
Subcatchment 11.7S: Area-11.7	Runoff Area=384,600 sf 0.00% Impervious Runoff Depth=1.56" Flow Length=1,793' Tc=16.1 min CN=71 Runoff=10.58 cfs 1.148 af
Subcatchment 11.8S: Area-11.8	Runoff Area=90,160 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=750' Tc=8.8 min CN=70 Runoff=2.96 cfs 0.257 af
Subcatchment 11.9S: Area-11.9	Runoff Area=89,354 sf 0.00% Impervious Runoff Depth=1.63" Flow Length=1,084' Tc=12.9 min CN=72 Runoff=2.85 cfs 0.279 af
Subcatchment 12.1S: Area-12.1	Runoff Area=684,140 sf 0.00% Impervious Runoff Depth=1.49" Flow Length=1,995' Tc=37.6 min CN=70 Runoff=11.94 cfs 1.953 af
Reach 8.1R: Mountain stream	Avg. Flow Depth=0.80' Max Vel=10.84 fps Inflow=32.42 cfs 3.361 af n=0.040 L=850.0' S=0.1906 1/1 Capacity=193.86 cfs Outflow=31.64 cfs 3.361 af
Reach 11.10R: Mountain stream	Avg. Flow Depth=0.42' Max Vel=8.43 fps Inflow=87.77 cfs 12.337 af n=0.040 L=393.0' S=0.1730 1/1 Capacity=3,320.07 cfs Outflow=87.27 cfs 12.337 af
Reach 11.1aR: Mountain stream-DP 11.7	Avg. Flow Depth=0.68' Max Vel=9.01 fps Inflow=31.64 cfs 3.620 af n=0.040 L=950.0' S=0.1884 1/1 Capacity=186.80 cfs Outflow=31.04 cfs 3.620 af
Reach 11.1R: Mountain stream-DP 11.6	Avg. Flow Depth=0.60' Max Vel=8.05 fps Inflow=22.95 cfs 2.634 af n=0.040 L=310.0' S=0.1742 1/1 Capacity=179.61 cfs Outflow=22.67 cfs 2.634 af
Reach 11.3aR: Bouldery stream	Avg. Flow Depth=0.37' Max Vel=9.16 fps Inflow=28.41 cfs 4.111 af n=0.050 L=142.0' S=0.4014 1/1 Capacity=748.92 cfs Outflow=28.37 cfs 4.111 af
Reach 11.4aR: DP11.3	Avg. Flow Depth=0.56' Max Vel=10.70 fps Inflow=50.88 cfs 7.290 af n=0.050 L=220.0' S=0.3636 1/1 Capacity=858.32 cfs Outflow=50.79 cfs 7.290 af
Reach 11.4bR: DP11.4	Avg. Flow Depth=0.52' Max Vel=8.81 fps Inflow=10.58 cfs 1.148 af n=0.040 L=145.0' S=0.2621 1/1 Capacity=231.18 cfs Outflow=10.54 cfs 1.148 af
Reach 11.4R: DP-11.2	Avg. Flow Depth=0.68' Max Vel=7.83 fps Inflow=49.77 cfs 7.032 af n=0.050 L=267.0' S=0.1498 1/1 Capacity=558.40 cfs Outflow=49.63 cfs 7.032 af
Reach 11.5aR: DP11.5	Avg. Flow Depth=0.28' Max Vel=5.91 fps Inflow=2.85 cfs 0.279 af n=0.040 L=620.0' S=0.2323 1/1 Capacity=217.63 cfs Outflow=2.76 cfs 0.279 af
Reach 11.5R: Mountain stream	Avg. Flow Depth=0.41' Max Vel=9.40 fps Inflow=58.61 cfs 8.438 af n=0.040 L=455.0' S=0.2242 1/1 Capacity=3,678.81 cfs Outflow=58.41 cfs 8.438 af

Reach 11.6aR: Mountain stream Avg. Flow Depth=0.62' Max Vel=12.60 fps Inflow=88.48 cfs 12.337 af
n=0.050 L=245.0' S=0.4000 '/ Capacity=3,987.80 cfs Outflow=88.31 cfs 12.337 af

Reach 11.6R: Mountain stream Avg. Flow Depth=0.57' Max Vel=9.46 fps Inflow=60.29 cfs 8.717 af
n=0.050 L=475.0' S=0.2505 '/ Capacity=3,155.95 cfs Outflow=60.07 cfs 8.717 af

Reach 11.8R: Mountain stream Avg. Flow Depth=0.54' Max Vel=10.59 fps Inflow=88.31 cfs 12.337 af
n=0.050 L=360.0' S=0.3139 '/ Capacity=13,400.37 cfs Outflow=88.04 cfs 12.337 af

Reach DP-1: Design Point-1 Avg. Flow Depth=0.74' Max Vel=10.55 fps Inflow=60.60 cfs 6.903 af
n=0.040 L=10.0' S=0.1500 '/ Capacity=670.80 cfs Outflow=60.58 cfs 6.903 af

Reach DP-11: Design Point-11 Inflow=153.37 cfs 21.652 af
Outflow=153.37 cfs 21.652 af

Reach DP-1a: Design Point-1a Avg. Flow Depth=0.51' Max Vel=5.91 fps Inflow=15.19 cfs 1.967 af
n=0.040 L=10.0' S=0.1000 '/ Capacity=97.10 cfs Outflow=15.18 cfs 1.967 af

Reach DP-2: Design Point-2 Avg. Flow Depth=0.55' Max Vel=9.97 fps Inflow=28.91 cfs 3.715 af
n=0.040 L=10.0' S=0.2000 '/ Capacity=233.42 cfs Outflow=28.91 cfs 3.715 af

Reach DP-2a: Design Point 2a Inflow=4.41 cfs 0.382 af
Outflow=4.41 cfs 0.382 af

Reach DP-2b: Design Point 2b Inflow=29.35 cfs 3.093 af
Outflow=29.35 cfs 3.093 af

Reach DP-3: Design Point-3 Inflow=16.52 cfs 1.752 af
Outflow=16.52 cfs 1.752 af

Reach DP-4: Design Point-4 Inflow=25.50 cfs 2.937 af
Outflow=25.50 cfs 2.937 af

Reach DP-5: Design Point-5 Inflow=37.92 cfs 4.079 af
Outflow=37.92 cfs 4.079 af

Reach DP-6: Design Point-6 Inflow=3.90 cfs 0.326 af
Outflow=3.90 cfs 0.326 af

Reach DP-7: Design Point-7 Inflow=5.50 cfs 0.442 af
Outflow=5.50 cfs 0.442 af

Reach DP-8: Design Point-8 Inflow=46.48 cfs 5.050 af
Outflow=46.48 cfs 5.050 af

Reach DP-9: Design Point-9 Inflow=32.09 cfs 3.307 af
Outflow=32.09 cfs 3.307 af

Reach DP12: Design Point-12 Avg. Flow Depth=0.41' Max Vel=7.94 fps Inflow=11.94 cfs 1.953 af
n=0.040 L=10.0' S=0.2000 '/ Capacity=128.70 cfs Outflow=11.94 cfs 1.953 af

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 38

Reach R1.1: Mountain Stream

Avg. Flow Depth=0.69' Max Vel=9.54 fps Inflow=40.52 cfs 4.577 af
n=0.040 L=610.0' S=0.1475 '/' Capacity=639.78 cfs Outflow=39.88 cfs 4.577 af

Pond 11.3R: DP-11.1

Peak Elev=2,411.32' Storage=404 cf Inflow=28.42 cfs 4.111 af
72.0" Round Culvert x 2.00 n=0.025 L=120.0' S=0.1333 '/' Outflow=28.41 cfs 4.111 af

Pond 11.7R: Culvert

Peak Elev=1,894.13' Inflow=88.31 cfs 12.337 af
Outflow=88.31 cfs 12.337 af

Pond 11.9R: Culvert

Peak Elev=1,775.70' Storage=2,308 cf Inflow=88.04 cfs 12.337 af
Outflow=87.77 cfs 12.337 af

Total Runoff Area = 458.600 ac Runoff Volume = 57.557 af Average Runoff Depth = 1.51"
98.58% Pervious = 452.073 ac 1.42% Impervious = 6.527 ac

Summary for Subcatchment 1.1S: Area-1.1

Runoff = 40.52 cfs @ 12.21 hrs, Volume= 4.577 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
1,590,610	70	Woods, Good, HSG C
12,455	77	Woods, Good, HSG D
1,603,065	70	Weighted Average
1,603,065		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.6	75	0.1200	0.15		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
7.8	1,425	0.3700	3.04		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.4	545	0.2000	24.25	698.34	Trap/Vee/Rect Channel Flow, Mountain Stream Bot.W=4.50' D=3.00' Z= 1.7 '/' Top.W=14.70' n= 0.040 Mountain streams
0.6	1,060	0.1600	30.49	2,126.93	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=11.00' D=4.50' Z= 1.0 '/' Top.W=20.00' n= 0.040 Mountain streams
17.4	3,105	Total			

Summary for Subcatchment 1.2S: Area-1.2

Runoff = 21.90 cfs @ 12.17 hrs, Volume= 2.326 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
595,891	70	Woods, Good, HSG C
109,680	77	Woods, Good, HSG D
109,294	65	Brush, Good, HSG C
814,865	70	Weighted Average
814,865		100.00% Pervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 40

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	60	0.5000	0.25		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
10.0	1,690	0.3200	2.83		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.6	540	0.1800	15.23	141.68	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=5.00' D=1.33' Z= 1.5 '/' Top.W=8.99' n= 0.040 Mountain streams
0.6	575	0.0950	16.94	513.38	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=5.00' D=3.00' Z= 1.7 '/' Top.W=15.20' n= 0.040 Mountain streams
15.3	2,865	Total			

Summary for Subcatchment 1.3S: Area-1.3

Runoff = 15.19 cfs @ 12.30 hrs, Volume= 1.967 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
654,368	70	Woods, Good, HSG C
26,555	77	Woods, Good, HSG D
8,088	65	Brush, Good, HSG C
689,011	70	Weighted Average
689,011		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	75	0.3300	0.22		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
11.3	2,040	0.3600	3.00		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
3.0	140	0.1000	0.79		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
3.0	370	0.1700	2.06		Shallow Concentrated Flow, shallow concentrated flow: woods Woodland Kv= 5.0 fps
0.4	170	0.1000	6.67	37.22	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=3.00' D=0.70' Z= 7.1 '/' Top.W=12.94' n= 0.040 Mountain streams
23.4	2,795	Total			

Summary for Subcatchment 2aS: Area 2a

Runoff = 4.41 cfs @ 12.08 hrs, Volume= 0.382 af, Depth= 1.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 41

Area (sf)	CN	Description
86,860	70	Woods, Good, HSG C
7,495	77	Woods, Good, HSG D
45,840	65	Brush, Good, HSG C
140,195	69	Weighted Average
140,195		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	90	0.0860	0.29		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
3.2	465	0.1230	2.45		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
8.4	555	Total			

Summary for Subcatchment 2bS: Area 2b

Runoff = 29.35 cfs @ 12.17 hrs, Volume= 3.093 af, Depth= 1.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
919,510	70	Woods, Good, HSG C
215,010	65	Brush, Good, HSG C
1,134,520	69	Weighted Average
1,134,520		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.1	75	0.2800	0.20		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
8.4	1,215	0.2350	2.42		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
14.5	1,290	Total			

Summary for Subcatchment 2S: Area-2

Runoff = 28.91 cfs @ 12.29 hrs, Volume= 3.715 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
1,187,108	70	Woods, Good, HSG C
54,040	77	Woods, Good, HSG D
60,282	65	Brush, Good, HSG C
1,301,430	70	Weighted Average
1,301,430		100.00% Pervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 42

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.9	75	0.1467	0.16		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
8.1	1,435	0.3456	2.94		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.7	270	0.1600	6.00		Shallow Concentrated Flow, Shallow concentrated: Meadow Grassed Waterway Kv= 15.0 fps
4.5	630	0.2200	2.35		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
1.3	175	0.1040	2.26		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
0.4	275	0.2100	12.35	49.41	Trap/Vee/Rect Channel Flow, Mountain Stream Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Mountain streams
23.0	2,860	Total			

Summary for Subcatchment 3S: Area-3

Runoff = 16.52 cfs @ 12.17 hrs, Volume= 1.752 af, Depth= 1.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
530,167	70	Woods, Good, HSG C
5,845	77	Woods, Good, HSG D
106,430	65	Brush, Good, HSG C
642,442	69	Weighted Average
642,442		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	75	0.2200	0.28		Sheet Flow, Sheet flow: meadow Grass: Dense n= 0.240 P2= 3.00"
5.5	975	0.3500	2.96		Shallow Concentrated Flow, Shallow concentrated : woods Woodland Kv= 5.0 fps
2.5	535	0.2500	3.50		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
2.1	400	0.4000	3.16		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.2	200	0.2000	18.83	84.73	Trap/Vee/Rect Channel Flow, DITCH Bot.W=1.50' D=1.50' Z= 1.0 '/' Top.W=4.50' n= 0.030 Earth, grassed & winding
14.8	2,185	Total			

Summary for Subcatchment 4S: Area-4

Runoff = 25.50 cfs @ 12.22 hrs, Volume= 2.937 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
537,225	70	Woods, Good, HSG C
491,385	70	Woods, Good, HSG C
1,028,610	70	Weighted Average
1,028,610		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	75	0.2700	0.30		Sheet Flow, meadow Grass: Dense n= 0.240 P2= 3.00"
3.0	595	0.2200	3.28		Shallow Concentrated Flow, meadow Short Grass Pasture Kv= 7.0 fps
10.9	1,885	0.3300	2.87		Shallow Concentrated Flow, WOODS/MEADOW Woodland Kv= 5.0 fps
0.2	200	0.2000	17.67	211.99	Trap/Vee/Rect Channel Flow, EX DITCH Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
18.2	2,755	Total			

Summary for Subcatchment 5S: Area-5

Runoff = 37.92 cfs @ 12.18 hrs, Volume= 4.079 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
1,291,330	70	Woods, Good, HSG C
52,915	77	Woods, Good, HSG D
84,585	65	Brush, Good, HSG C
1,428,830	70	Weighted Average
1,428,830		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	60	0.3800	0.22		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
10.0	1,730	0.3300	2.87		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.9	835	0.1500	15.66	203.63	Trap/Vee/Rect Channel Flow, Bot.W=2.50' D=2.00' Z= 2.0 '/' Top.W=10.50' n= 0.040 Earth, cobble bottom, clean sides
15.4	2,625	Total			

Summary for Subcatchment 6S: Area-6

Runoff = 3.90 cfs @ 12.06 hrs, Volume= 0.326 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
145,690	65	Brush, Good, HSG C
145,690		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.1	75	0.1600	0.25		Sheet Flow, Sheet flow: Meadow Grass: Dense n= 0.240 P2= 3.00"
0.5	185	0.1500	5.81		Shallow Concentrated Flow, Shallow concentrated: Meadow Grassed Waterway Kv= 15.0 fps
1.3	250	0.2000	3.13		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
6.9	510	Total			

Summary for Subcatchment 7S: Area-7

Runoff = 5.50 cfs @ 12.05 hrs, Volume= 0.442 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
197,522	65	Brush, Good, HSG C
197,522		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	58	0.1800	0.24		Sheet Flow, Sheet flow: Meadow Grass: Dense n= 0.240 P2= 3.00"
1.9	350	0.2000	3.13		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
5.9	408	Total			

Summary for Subcatchment 8.1S: Area-8

Runoff = 17.84 cfs @ 12.12 hrs, Volume= 1.688 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 45

Area (sf)	CN	Description
334,862	70	Woods, Good, HSG C
11,266	77	Woods, Good, HSG D
303,022	65	Brush, Good, HSG C
649,150	68	Weighted Average
649,150		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	75	0.1700	0.17		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.7	310	0.1900	3.05		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
1.8	1,320	0.1000	12.49	149.90	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Mountain streams

11.0 1,705 Total

Summary for Subcatchment 8.2S: Area-8.2

Runoff = 32.42 cfs @ 12.16 hrs, Volume= 3.361 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
1,116,405	70	Woods, Good, HSG C
19,084	77	Woods, Good, HSG D
15,820	65	Brush, Good, HSG C
26,111	71	Meadow, non-grazed, HSG C
1,177,420	70	Weighted Average
1,177,420		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	75	0.2400	0.19		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
6.9	1,210	0.3400	2.92		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.9	595	0.0780	11.03	132.39	Trap/Vee/Rect Channel Flow, SWALE Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Mountain streams

14.3 1,880 Total

Summary for Subcatchment 9S: Area-9

Runoff = 32.09 cfs @ 12.16 hrs, Volume= 3.307 af, Depth= 1.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
16,935	98	Paved parking, HSG C
10,120	98	Roofs, HSG C
834,708	70	Woods, Good, HSG C
6,220	77	Woods, Good, HSG D
344,889	65	Brush, Good, HSG C
1,212,872	69	Weighted Average
1,185,817		97.77% Pervious Area
27,055		2.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	75	0.2900	0.21		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.3	245	0.4000	3.16		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
6.5	1,385	0.2600	3.57		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
13.8	1,705	Total			

Summary for Subcatchment 11.1S: Area-11.1

Runoff = 23.23 cfs @ 12.27 hrs, Volume= 2.921 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
908,457	70	Woods, Good, HSG C
114,680	71	Meadow, non-grazed, HSG C
1,023,137	70	Weighted Average
1,023,137		100.00% Pervious Area

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Page 47

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	75	0.1800	0.17		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.8	275	0.2500	2.50		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
2.3	410	0.1800	2.97		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
8.1	1,358	0.3110	2.79		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
2.3	380	0.1600	2.80		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
0.1	142	0.4000	36.21	2,230.45	Trap/Vee/Rect Channel Flow, Bot.W=15.00' D=4.00' Z= 0.1 '/' Top.W=15.80' n= 0.050 Mountain streams w/large boulders
21.9	2,640	Total			

Summary for Subcatchment 11.2S: Area-11.2

Runoff = 28.42 cfs @ 12.38 hrs, Volume= 4.111 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
1,218,126	70	Woods, Good, HSG C
19,210	77	Woods, Good, HSG D
202,670	71	Meadow, non-grazed, HSG C
1,440,006	70	Weighted Average
1,440,006		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	75	0.0933	0.08		Sheet Flow, Sheet flow: Woods Woods: Dense underbrush n= 0.800 P2= 3.00"
4.4	575	0.0960	2.17		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
5.3	885	0.3110	2.79		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
2.2	355	0.2817	2.65		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.8	830	0.2600	17.15	128.61	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Mountain streams
29.3	2,720	Total			

Summary for Subcatchment 11.3S: Area-11.3

Runoff = 66.25 cfs @ 12.37 hrs, Volume= 9.315 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,326,081	70	Woods, Good, HSG C
80,446	74	>75% Grass cover, Good, HSG C
257,243	98	Paved parking & roofs
73,710	77	Woods, Good, HSG D
123,467	71	Meadow, non-grazed, HSG C
2,860,947	73	Weighted Average
2,603,704		91.01% Pervious Area
257,243		8.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	75	0.1133	0.21		Sheet Flow, Sheet flow: Meadow Grass: Dense n= 0.240 P2= 3.00"
4.7	1,038	0.2800	3.70		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
8.9	1,412	0.2800	2.65		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.8	127	0.1500	2.71		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
2.8	450	0.2800	2.65		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
3.0	395	0.0250	2.17	23.92	Trap/Vee/Rect Channel Flow, stream Bot.W=1.00' D=1.00' Z= 10.0 '/' Top.W=21.00' n= 0.070 Sluggish weedy reaches w/pools
0.8	300	0.0250	5.95	71.40	Trap/Vee/Rect Channel Flow, stream Bot.W=1.00' D=2.00' Z= 2.5 '/' Top.W=11.00' n= 0.040 Winding stream, pools & shoals
1.2	720	0.0250	9.97	996.95	Trap/Vee/Rect Channel Flow, stream Bot.W=10.00' D=5.00' Z= 2.0 '/' Top.W=30.00' n= 0.050 Mountain streams w/large boulders
0.1	45	0.0500	13.29	167.02	Pipe Channel, culvert 48.0" Round Area= 12.6 sf Perim= 12.6' r= 1.00' n= 0.025 Corrugated metal
0.1	360	0.3100	53.27	13,317.10	Trap/Vee/Rect Channel Flow, stream Bot.W=15.00' D=10.00' Z= 1.0 '/' Top.W=35.00' n= 0.050 Mountain streams w/large boulders
0.1	90	0.0500	19.28	378.54	Pipe Channel, culvert 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.020 Corrugated PE, corrugated interior
0.6	393	0.0280	10.52	1,068.46	Trap/Vee/Rect Channel Flow, Bot.W=25.00' D=4.00' Z= 0.1 '/' Top.W=25.80' n= 0.050 Mountain streams w/large boulders

29.0 5,405 Total

Summary for Subcatchment 11.4S: Area-11.4

Runoff = 22.95 cfs @ 12.21 hrs, Volume= 2.634 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
718,603	70	Woods, Good, HSG C
35,806	77	Woods, Good, HSG D
43,994	65	Brush, Good, HSG C
124,114	71	Meadow, non-grazed, HSG C
922,517	70	Weighted Average
922,517		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	75	0.3200	0.22		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.8	330	0.2000	3.13		Shallow Concentrated Flow, Shallow concentrated:ski trail Short Grass Pasture Kv= 7.0 fps
2.9	516	0.3500	2.96		Shallow Concentrated Flow, Shallow concentrated:woods Woodland Kv= 5.0 fps
0.7	130	0.1800	2.97		Shallow Concentrated Flow, ski trail Short Grass Pasture Kv= 7.0 fps
6.3	1,055	0.3100	2.78		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.5	500	0.2300	15.72	206.39	Trap/Vee/Rect Channel Flow, stream Bot.W=2.00' D=1.50' Z= 4.5 '/' Top.W=15.50' n= 0.040 Mountain streams
18.0	2,606	Total			

Summary for Subcatchment 11.6S: Area-11.6

Runoff = 9.43 cfs @ 12.17 hrs, Volume= 0.986 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
239,255	70	Woods, Good, HSG C
76,880	77	Woods, Good, HSG D
316,135	72	Weighted Average
316,135		100.00% Pervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 50

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	50	0.1700	0.34		Sheet Flow, Sheet flow Grass: Short n= 0.150 P2= 3.00"
3.8	50	0.4000	0.22		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
4.1	720	0.3500	2.96		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
1.3	140	0.1200	1.73		Shallow Concentrated Flow, Shallow concentrated: Wetland Woodland Kv= 5.0 fps
3.5	530	0.2600	2.55		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
15.2	1,490	Total			

Summary for Subcatchment 11.7S: Area-11.7

Runoff = 10.58 cfs @ 12.19 hrs, Volume= 1.148 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
292,104	70	Woods, Good, HSG C
23,860	77	Woods, Good, HSG D
68,636	71	Meadow, non-grazed, HSG C
384,600	71	Weighted Average
384,600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	75	0.1700	0.17		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
2.5	435	0.3500	2.96		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
1.0	200	0.2200	3.28		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
4.6	723	0.2800	2.65		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.5	360	0.2300	11.54	126.95	Trap/Vee/Rect Channel Flow, Bot.W=1.00' D=1.00' Z= 10.0 '/' Top.W=21.00' n= 0.040 Mountain streams
16.1	1,793	Total			

Summary for Subcatchment 11.8S: Area-11.8

Runoff = 2.96 cfs @ 12.09 hrs, Volume= 0.257 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 51

Area (sf)	CN	Description
66,892	70	Woods, Good, HSG C
1,380	77	Woods, Good, HSG D
21,888	71	Meadow, non-grazed, HSG C
90,160	70	Weighted Average
90,160		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	75	0.1800	0.26		Sheet Flow, Sheet flow: Woods Grass: Dense n= 0.240 P2= 3.00"
3.8	575	0.2500	2.50		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.1	100	0.2500	12.03	132.35	Trap/Vee/Rect Channel Flow, Bot.W=1.00' D=1.00' Z= 10.0 '/' Top.W=21.00' n= 0.040 Winding stream, pools & shoals

8.8 750 Total

Summary for Subcatchment 11.9S: Area-11.9

Runoff = 2.85 cfs @ 12.14 hrs, Volume= 0.279 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
69,494	70	Woods, Good, HSG C
19,860	77	Woods, Good, HSG D
89,354	72	Weighted Average
89,354		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	75	0.1700	0.17		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
5.3	911	0.3300	2.87		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.1	98	0.2300	11.54	126.95	Trap/Vee/Rect Channel Flow, Bot.W=1.00' D=1.00' Z= 10.0 '/' Top.W=21.00' n= 0.040 Mountain streams

12.9 1,084 Total

Summary for Subcatchment 12.1S: Area-12.1

Runoff = 11.94 cfs @ 12.51 hrs, Volume= 1.953 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 52

Area (sf)	CN	Description
14,955	77	Woods, Good, HSG D
669,185	70	Woods, Good, HSG C
684,140	70	Weighted Average
684,140		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	75	0.1600	0.16		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
29.6	1,685	0.0360	0.95		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.3	235	0.1600	14.19	118.17	Trap/Vee/Rect Channel Flow, stream/wetland Bot.W=3.00' D=1.50' Z= 1.7 '/' Top.W=8.10' n= 0.040 Mountain streams
37.6	1,995	Total			

Summary for Reach 8.1R: Mountain stream

Inflow Area = 27.030 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
 Inflow = 32.42 cfs @ 12.16 hrs, Volume= 3.361 af
 Outflow = 31.64 cfs @ 12.21 hrs, Volume= 3.361 af, Atten= 2%, Lag= 2.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Max. Velocity= 10.84 fps, Min. Travel Time= 1.3 min
 Avg. Velocity= 4.09 fps, Avg. Travel Time= 3.5 min

Peak Storage= 2,505 cf @ 12.18 hrs
 Average Depth at Peak Storage= 0.80'
 Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 193.86 cfs

2.50' x 2.00' deep channel, n= 0.040 Mountain streams
 Side Slope Z-value= 1.5 '/' Top Width= 8.50'
 Length= 850.0' Slope= 0.1906 '/'
 Inlet Invert= 1,816.00', Outlet Invert= 1,654.00'



Summary for Reach 11.10R: Mountain stream

Inflow Area = 97.932 ac, 0.00% Impervious, Inflow Depth = 1.51" for 10-yr Local event
 Inflow = 87.77 cfs @ 12.36 hrs, Volume= 12.337 af
 Outflow = 87.27 cfs @ 12.39 hrs, Volume= 12.337 af, Atten= 1%, Lag= 1.3 min

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 53

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.43 fps, Min. Travel Time= 0.8 min

Avg. Velocity = 3.02 fps, Avg. Travel Time= 2.2 min

Peak Storage= 4,090 cf @ 12.37 hrs

Average Depth at Peak Storage= 0.42'

Bank-Full Depth= 4.00' Flow Area= 101.6 sf, Capacity= 3,320.07 cfs

25.00' x 4.00' deep channel, n= 0.040 Mountain streams

Side Slope Z-value= 0.1 '/' Top Width= 25.80'

Length= 393.0' Slope= 0.1730 '/'

Inlet Invert= 1,768.00', Outlet Invert= 1,700.00'



Summary for Reach 11.1aR: Mountain stream-DP 11.7

Inflow Area = 28.436 ac, 0.00% Impervious, Inflow Depth = 1.53" for 10-yr Local event

Inflow = 31.64 cfs @ 12.22 hrs, Volume= 3.620 af

Outflow = 31.04 cfs @ 12.27 hrs, Volume= 3.620 af, Atten= 2%, Lag= 3.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Max. Velocity= 9.01 fps, Min. Travel Time= 1.8 min

Avg. Velocity = 3.72 fps, Avg. Travel Time= 4.3 min

Peak Storage= 3,297 cf @ 12.24 hrs

Average Depth at Peak Storage= 0.68'

Bank-Full Depth= 1.50' Flow Area= 13.1 sf, Capacity= 186.80 cfs

2.00' x 1.50' deep channel, n= 0.040 Mountain streams

Side Slope Z-value= 4.5 '/' Top Width= 15.50'

Length= 950.0' Slope= 0.1884 '/'

Inlet Invert= 2,169.00', Outlet Invert= 1,990.00'



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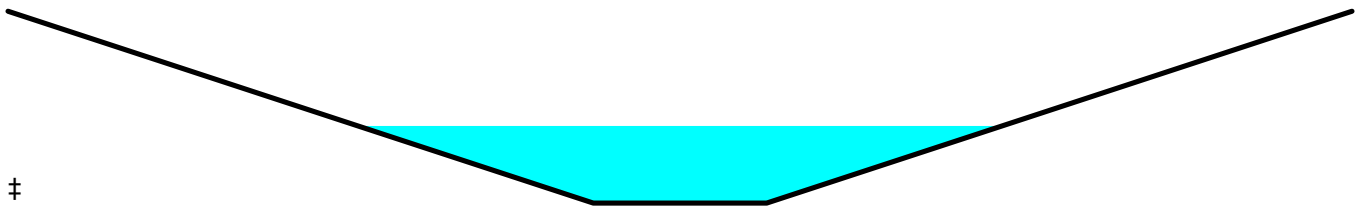
Summary for Reach 11.1R: Mountain stream-DP 11.6

Inflow Area = 21.178 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
Inflow = 22.95 cfs @ 12.21 hrs, Volume= 2.634 af
Outflow = 22.67 cfs @ 12.24 hrs, Volume= 2.634 af, Atten= 1%, Lag= 1.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.05 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 3.54 fps, Avg. Travel Time= 1.5 min

Peak Storage= 881 cf @ 12.22 hrs
Average Depth at Peak Storage= 0.60'
Bank-Full Depth= 1.50' Flow Area= 13.1 sf, Capacity= 179.61 cfs

2.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.5 '/ Top Width= 15.50'
Length= 310.0' Slope= 0.1742 '/
Inlet Invert= 2,224.00', Outlet Invert= 2,170.00'



Summary for Reach 11.3aR: Bouldery stream

Inflow Area = 33.058 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
Inflow = 28.41 cfs @ 12.39 hrs, Volume= 4.111 af
Outflow = 28.37 cfs @ 12.39 hrs, Volume= 4.111 af, Atten= 0%, Lag= 0.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.16 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 3.45 fps, Avg. Travel Time= 0.7 min

Peak Storage= 440 cf @ 12.39 hrs
Average Depth at Peak Storage= 0.37'
Bank-Full Depth= 2.50' Flow Area= 27.5 sf, Capacity= 748.92 cfs

8.00' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.2 '/ Top Width= 14.00'
Length= 142.0' Slope= 0.4014 '/
Inlet Invert= 2,390.00', Outlet Invert= 2,333.00'



Summary for Reach 11.4aR: DP11.3

Inflow Area = 58.616 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
Inflow = 50.88 cfs @ 12.35 hrs, Volume= 7.290 af
Outflow = 50.79 cfs @ 12.36 hrs, Volume= 7.290 af, Atten= 0%, Lag= 0.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.70 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 4.17 fps, Avg. Travel Time= 0.9 min

Peak Storage= 1,046 cf @ 12.35 hrs
Average Depth at Peak Storage= 0.56'
Bank-Full Depth= 2.50' Flow Area= 35.0 sf, Capacity= 858.32 cfs

7.00' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.8 '/ Top Width= 21.00'
Length= 220.0' Slope= 0.3636 '/
Inlet Invert= 2,292.00', Outlet Invert= 2,212.00'



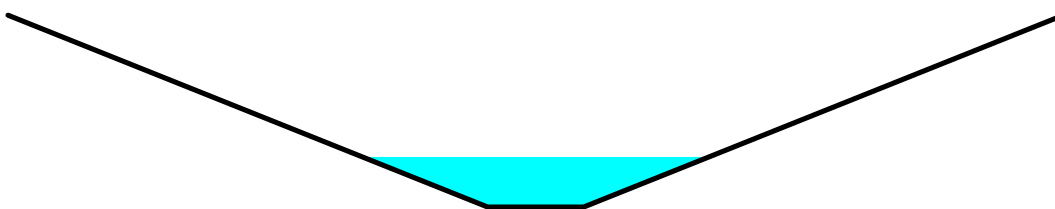
Summary for Reach 11.4bR: DP11.4

Inflow Area = 8.829 ac, 0.00% Impervious, Inflow Depth = 1.56" for 10-yr Local event
Inflow = 10.58 cfs @ 12.19 hrs, Volume= 1.148 af
Outflow = 10.54 cfs @ 12.20 hrs, Volume= 1.148 af, Atten= 0%, Lag= 0.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.81 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 3.86 fps, Avg. Travel Time= 0.6 min

Peak Storage= 174 cf @ 12.19 hrs
Average Depth at Peak Storage= 0.52'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 231.18 cfs

1.00' x 2.00' deep channel, n= 0.040 Winding stream, pools & shoals
Side Slope Z-value= 2.5 '/ Top Width= 11.00'
Length= 145.0' Slope= 0.2621 '/
Inlet Invert= 2,250.00', Outlet Invert= 2,212.00'



Summary for Reach 11.4R: DP-11.2

Inflow Area = 56.546 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
Inflow = 49.77 cfs @ 12.33 hrs, Volume= 7.032 af
Outflow = 49.63 cfs @ 12.35 hrs, Volume= 7.032 af, Atten= 0%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.83 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 3.04 fps, Avg. Travel Time= 1.5 min

Peak Storage= 1,697 cf @ 12.34 hrs
Average Depth at Peak Storage= 0.68'
Bank-Full Depth= 2.50' Flow Area= 35.0 sf, Capacity= 558.40 cfs

7.50' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.6 '/ Top Width= 20.50'
Length= 267.0' Slope= 0.1498 '/
Inlet Invert= 2,332.00', Outlet Invert= 2,292.00'



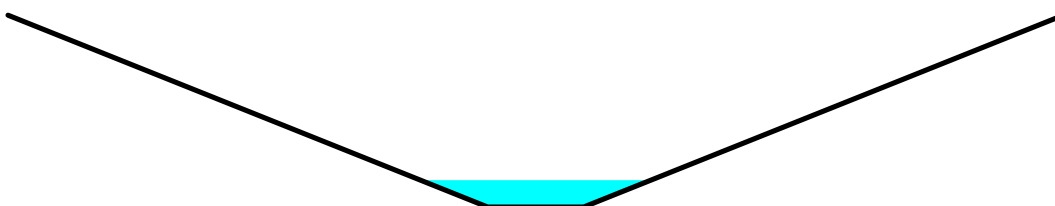
Summary for Reach 11.5aR: DP11.5

Inflow Area = 2.051 ac, 0.00% Impervious, Inflow Depth = 1.63" for 10-yr Local event
Inflow = 2.85 cfs @ 12.14 hrs, Volume= 0.279 af
Outflow = 2.76 cfs @ 12.20 hrs, Volume= 0.279 af, Atten= 3%, Lag= 3.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.91 fps, Min. Travel Time= 1.7 min
Avg. Velocity = 2.35 fps, Avg. Travel Time= 4.4 min

Peak Storage= 296 cf @ 12.17 hrs
Average Depth at Peak Storage= 0.28'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 217.63 cfs

1.00' x 2.00' deep channel, n= 0.040 Winding stream, pools & shoals
Side Slope Z-value= 2.5 '/ Top Width= 11.00'
Length= 620.0' Slope= 0.2323 '/
Inlet Invert= 2,254.00', Outlet Invert= 2,110.00'



Summary for Reach 11.5R: Mountain stream

Inflow Area = 67.445 ac, 0.00% Impervious, Inflow Depth = 1.50" for 10-yr Local event
Inflow = 58.61 cfs @ 12.33 hrs, Volume= 8.438 af
Outflow = 58.41 cfs @ 12.36 hrs, Volume= 8.438 af, Atten= 0%, Lag= 1.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.40 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 3.58 fps, Avg. Travel Time= 2.1 min

Peak Storage= 2,838 cf @ 12.34 hrs
Average Depth at Peak Storage= 0.41'
Bank-Full Depth= 5.00' Flow Area= 92.5 sf, Capacity= 3,678.81 cfs

15.00' x 5.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 0.7 '/' Top Width= 22.00'
Length= 455.0' Slope= 0.2242 '/'
Inlet Invert= 2,212.00', Outlet Invert= 2,110.00'



Summary for Reach 11.6aR: Mountain stream

Inflow Area = 97.932 ac, 0.00% Impervious, Inflow Depth = 1.51" for 10-yr Local event
Inflow = 88.48 cfs @ 12.33 hrs, Volume= 12.337 af
Outflow = 88.31 cfs @ 12.34 hrs, Volume= 12.337 af, Atten= 0%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 12.60 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 4.71 fps, Avg. Travel Time= 0.9 min

Peak Storage= 1,720 cf @ 12.33 hrs
Average Depth at Peak Storage= 0.62'
Bank-Full Depth= 5.00' Flow Area= 100.0 sf, Capacity= 3,987.80 cfs

10.00' x 5.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.0 '/' Top Width= 30.00'
Length= 245.0' Slope= 0.4000 '/'
Inlet Invert= 1,990.00', Outlet Invert= 1,892.00'



Summary for Reach 11.6R: Mountain stream

Inflow Area = 69.496 ac, 0.00% Impervious, Inflow Depth = 1.51" for 10-yr Local event
Inflow = 60.29 cfs @ 12.35 hrs, Volume= 8.717 af
Outflow = 60.07 cfs @ 12.37 hrs, Volume= 8.717 af, Atten= 0%, Lag= 1.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.46 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 3.61 fps, Avg. Travel Time= 2.2 min

Peak Storage= 3,024 cf @ 12.36 hrs
Average Depth at Peak Storage= 0.57'
Bank-Full Depth= 5.00' Flow Area= 100.0 sf, Capacity= 3,155.95 cfs

10.00' x 5.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.0 '/' Top Width= 30.00'
Length= 475.0' Slope= 0.2505 '/'
Inlet Invert= 2,109.00', Outlet Invert= 1,990.00'



Summary for Reach 11.8R: Mountain stream

Inflow Area = 97.932 ac, 0.00% Impervious, Inflow Depth = 1.51" for 10-yr Local event
Inflow = 88.31 cfs @ 12.34 hrs, Volume= 12.337 af
Outflow = 88.04 cfs @ 12.36 hrs, Volume= 12.337 af, Atten= 0%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.59 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 4.24 fps, Avg. Travel Time= 1.4 min

Peak Storage= 3,000 cf @ 12.35 hrs
Average Depth at Peak Storage= 0.54'
Bank-Full Depth= 10.00' Flow Area= 250.0 sf, Capacity= 13,400.37 cfs

15.00' x 10.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 35.00'
Length= 360.0' Slope= 0.3139 '/'
Inlet Invert= 1,887.00', Outlet Invert= 1,774.00'



Summary for Reach DP-1: Design Point-1

Inflow Area = 55.508 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
Inflow = 60.60 cfs @ 12.22 hrs, Volume= 6.903 af
Outflow = 60.58 cfs @ 12.22 hrs, Volume= 6.903 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.55 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 3.70 fps, Avg. Travel Time= 0.0 min

Peak Storage= 57 cf @ 12.22 hrs
Average Depth at Peak Storage= 0.74'
Bank-Full Depth= 3.00' Flow Area= 30.0 sf, Capacity= 670.80 cfs

7.00' x 3.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.0 '/' Top Width= 13.00'
Length= 10.0' Slope= 0.1500 '/'
Inlet Invert= 0.00', Outlet Invert= -1.50'



Summary for Reach DP-11: Design Point-11

Inflow Area = 163.610 ac, 3.61% Impervious, Inflow Depth = 1.59" for 10-yr Local event
Inflow = 153.37 cfs @ 12.38 hrs, Volume= 21.652 af
Outflow = 153.37 cfs @ 12.38 hrs, Volume= 21.652 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-1a: Design Point-1a

Inflow Area = 15.818 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
Inflow = 15.19 cfs @ 12.30 hrs, Volume= 1.967 af
Outflow = 15.18 cfs @ 12.30 hrs, Volume= 1.967 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.91 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 2.51 fps, Avg. Travel Time= 0.1 min

Peak Storage= 26 cf @ 12.30 hrs
Average Depth at Peak Storage= 0.51'
Bank-Full Depth= 1.25' Flow Area= 10.0 sf, Capacity= 97.10 cfs

3.00' x 1.25' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.0 '/' Top Width= 13.00'
Length= 10.0' Slope= 0.1000 '/'
Inlet Invert= 0.00', Outlet Invert= -1.00'



Summary for Reach DP-2: Design Point-2

Inflow Area = 29.877 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
Inflow = 28.91 cfs @ 12.29 hrs, Volume= 3.715 af
Outflow = 28.91 cfs @ 12.29 hrs, Volume= 3.715 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.97 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 3.66 fps, Avg. Travel Time= 0.0 min

Peak Storage= 29 cf @ 12.29 hrs
Average Depth at Peak Storage= 0.55'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 233.42 cfs

5.00' x 2.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 0.5 '/' Top Width= 7.00'
Length= 10.0' Slope= 0.2000 '/'
Inlet Invert= 0.00', Outlet Invert= -2.00'



Summary for Reach DP-2a: Design Point 2a

Inflow Area = 3.218 ac, 0.00% Impervious, Inflow Depth = 1.43" for 10-yr Local event
Inflow = 4.41 cfs @ 12.08 hrs, Volume= 0.382 af
Outflow = 4.41 cfs @ 12.08 hrs, Volume= 0.382 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-2b: Design Point 2b

Inflow Area = 26.045 ac, 0.00% Impervious, Inflow Depth = 1.43" for 10-yr Local event
Inflow = 29.35 cfs @ 12.17 hrs, Volume= 3.093 af
Outflow = 29.35 cfs @ 12.17 hrs, Volume= 3.093 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-3: Design Point-3

Inflow Area = 14.748 ac, 0.00% Impervious, Inflow Depth = 1.43" for 10-yr Local event
Inflow = 16.52 cfs @ 12.17 hrs, Volume= 1.752 af
Outflow = 16.52 cfs @ 12.17 hrs, Volume= 1.752 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-4: Design Point-4

Inflow Area = 23.614 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
Inflow = 25.50 cfs @ 12.22 hrs, Volume= 2.937 af
Outflow = 25.50 cfs @ 12.22 hrs, Volume= 2.937 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-5: Design Point-5

Inflow Area = 32.801 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
Inflow = 37.92 cfs @ 12.18 hrs, Volume= 4.079 af
Outflow = 37.92 cfs @ 12.18 hrs, Volume= 4.079 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-6: Design Point-6

Inflow Area = 3.345 ac, 0.00% Impervious, Inflow Depth = 1.17" for 10-yr Local event
Inflow = 3.90 cfs @ 12.06 hrs, Volume= 0.326 af
Outflow = 3.90 cfs @ 12.06 hrs, Volume= 0.326 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-7: Design Point-7

Inflow Area = 4.534 ac, 0.00% Impervious, Inflow Depth = 1.17" for 10-yr Local event
Inflow = 5.50 cfs @ 12.05 hrs, Volume= 0.442 af
Outflow = 5.50 cfs @ 12.05 hrs, Volume= 0.442 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-8: Design Point-8

Inflow Area = 41.932 ac, 0.00% Impervious, Inflow Depth = 1.45" for 10-yr Local event
Inflow = 46.48 cfs @ 12.18 hrs, Volume= 5.050 af
Outflow = 46.48 cfs @ 12.18 hrs, Volume= 5.050 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-9: Design Point-9

Inflow Area = 27.844 ac, 2.23% Impervious, Inflow Depth = 1.43" for 10-yr Local event
Inflow = 32.09 cfs @ 12.16 hrs, Volume= 3.307 af
Outflow = 32.09 cfs @ 12.16 hrs, Volume= 3.307 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP12: Design Point-12

Inflow Area = 15.706 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
Inflow = 11.94 cfs @ 12.51 hrs, Volume= 1.953 af
Outflow = 11.94 cfs @ 12.51 hrs, Volume= 1.953 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.94 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 3.26 fps, Avg. Travel Time= 0.1 min

Peak Storage= 15 cf @ 12.51 hrs
Average Depth at Peak Storage= 0.41'
Bank-Full Depth= 1.50' Flow Area= 8.1 sf, Capacity= 128.70 cfs

3.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.6 '/' Top Width= 7.80'
Length= 10.0' Slope= 0.2000 '/'
Inlet Invert= 0.00', Outlet Invert= -2.00'



Summary for Reach R1.1: Mountain Stream

Inflow Area = 36.801 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
Inflow = 40.52 cfs @ 12.21 hrs, Volume= 4.577 af
Outflow = 39.88 cfs @ 12.24 hrs, Volume= 4.577 af, Atten= 2%, Lag= 2.0 min

08077_Existing-localprecipdata

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Prepared by The LA group

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Page 63

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Max. Velocity= 9.54 fps, Min. Travel Time= 1.1 min
 Avg. Velocity = 3.51 fps, Avg. Travel Time= 2.9 min

Peak Storage= 2,580 cf @ 12.22 hrs
 Average Depth at Peak Storage= 0.69'
 Bank-Full Depth= 3.00' Flow Area= 30.3 sf, Capacity= 639.78 cfs

5.00' x 3.00' deep channel, n= 0.040 Mountain streams
 Side Slope Z-value= 1.7 '/' Top Width= 15.20'
 Length= 610.0' Slope= 0.1475 '/'
 Inlet Invert= 2,200.00', Outlet Invert= 2,110.00'



Summary for Pond 11.3R: DP-11.1

Inflow Area = 33.058 ac, 0.00% Impervious, Inflow Depth = 1.49" for 10-yr Local event
 Inflow = 28.42 cfs @ 12.38 hrs, Volume= 4.111 af
 Outflow = 28.41 cfs @ 12.39 hrs, Volume= 4.111 af, Atten= 0%, Lag= 0.1 min
 Primary = 28.41 cfs @ 12.39 hrs, Volume= 4.111 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 2,411.32' @ 12.39 hrs Surf.Area= 313 sf Storage= 404 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 0.6 min (903.1 - 902.5)

Volume	Invert	Avail.Storage	Storage Description
#1	2,410.00'	3,500 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,410.00	300	0	0
2,420.00	400	3,500	3,500

Device	Routing	Invert	Outlet Devices
#1	Primary	2,410.00'	72.0" Round Culvert X 2.00 L= 120.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 2,410.00' / 2,394.00' S= 0.1333 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 28.27 sf

Primary OutFlow Max=28.29 cfs @ 12.39 hrs HW=2,411.32' (Free Discharge)

↑ **1=Culvert** (Inlet Controls 28.29 cfs @ 3.08 fps)

Summary for Pond 11.7R: Culvert

Inflow Area = 97.932 ac, 0.00% Impervious, Inflow Depth = 1.51" for 10-yr Local event
 Inflow = 88.31 cfs @ 12.34 hrs, Volume= 12.337 af
 Outflow = 88.31 cfs @ 12.34 hrs, Volume= 12.337 af, Atten= 0%, Lag= 0.0 min
 Primary = 88.31 cfs @ 12.34 hrs, Volume= 12.337 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,894.13' @ 12.34 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,890.00'	48.0" Round Culvert L= 45.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,890.00' / 1,888.00' S= 0.0444 1/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf
#2	Primary	1,895.00'	15.0' long x 35.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=88.05 cfs @ 12.34 hrs HW=1,894.12' (Free Discharge)

- 1=Culvert (Inlet Controls 88.05 cfs @ 7.01 fps)
- 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 11.9R: Culvert

Inflow Area = 97.932 ac, 0.00% Impervious, Inflow Depth = 1.51" for 10-yr Local event
 Inflow = 88.04 cfs @ 12.36 hrs, Volume= 12.337 af
 Outflow = 87.77 cfs @ 12.36 hrs, Volume= 12.337 af, Atten= 0%, Lag= 0.3 min
 Primary = 87.77 cfs @ 12.36 hrs, Volume= 12.337 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,775.70' @ 12.36 hrs Surf.Area= 908 sf Storage= 2,308 cf

Plug-Flow detention time= 1.0 min calculated for 12.333 af (100% of inflow)
 Center-of-Mass det. time= 1.0 min (905.6 - 904.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,773.00'	10,000 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,773.00	800	0	0
1,783.00	1,200	10,000	10,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,773.00'	60.0" Round Culvert L= 90.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,773.00' / 1,767.00' S= 0.0667 1/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 19.63 sf
#2	Primary	1,773.00'	48.0" Round Culvert L= 90.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,773.00' / 1,770.00' S= 0.0333 1/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=87.40 cfs @ 12.36 hrs HW=1,775.70' (Free Discharge)

└1=Culvert (Inlet Controls 47.64 cfs @ 4.41 fps)

└2=Culvert (Inlet Controls 39.76 cfs @ 4.41 fps)

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1.1S: Area-1.1	Runoff Area=1,603,065 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=3,105' Tc=17.4 min CN=70 Runoff=106.55 cfs 12.669 af
Subcatchment 1.2S: Area-1.2	Runoff Area=814,865 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=2,865' Tc=15.3 min CN=70 Runoff=57.50 cfs 6.440 af
Subcatchment 1.3S: Area-1.3	Runoff Area=689,011 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=2,795' Tc=23.4 min CN=70 Runoff=40.23 cfs 5.445 af
Subcatchment 2aS: Area 2a	Runoff Area=140,195 sf 0.00% Impervious Runoff Depth=4.02" Flow Length=555' Tc=8.4 min CN=69 Runoff=11.99 cfs 1.078 af
Subcatchment 2bS: Area 2b	Runoff Area=1,134,520 sf 0.00% Impervious Runoff Depth=4.02" Flow Length=1,290' Tc=14.5 min CN=69 Runoff=79.09 cfs 8.726 af
Subcatchment 2S: Area-2	Runoff Area=1,301,430 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=2,860' Tc=23.0 min CN=70 Runoff=76.69 cfs 10.285 af
Subcatchment 3S: Area-3	Runoff Area=642,442 sf 0.00% Impervious Runoff Depth=4.02" Flow Length=2,185' Tc=14.8 min CN=69 Runoff=44.54 cfs 4.941 af
Subcatchment 4S: Area-4	Runoff Area=1,028,610 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=2,755' Tc=18.2 min CN=70 Runoff=67.16 cfs 8.129 af
Subcatchment 5S: Area-5	Runoff Area=1,428,830 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=2,625' Tc=15.4 min CN=70 Runoff=100.11 cfs 11.292 af
Subcatchment 6S: Area-6	Runoff Area=145,690 sf 0.00% Impervious Runoff Depth=3.58" Flow Length=510' Tc=6.9 min CN=65 Runoff=11.76 cfs 0.998 af
Subcatchment 7S: Area-7	Runoff Area=197,522 sf 0.00% Impervious Runoff Depth=3.58" Flow Length=408' Tc=5.9 min CN=65 Runoff=16.46 cfs 1.353 af
Subcatchment 8.1S: Area-8	Runoff Area=649,150 sf 0.00% Impervious Runoff Depth=3.91" Flow Length=1,705' Tc=11.0 min CN=68 Runoff=49.21 cfs 4.856 af
Subcatchment 8.2S: Area-8.2	Runoff Area=1,177,420 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=1,880' Tc=14.3 min CN=70 Runoff=84.88 cfs 9.305 af
Subcatchment 9S: Area-9	Runoff Area=1,212,872 sf 2.23% Impervious Runoff Depth=4.02" Flow Length=1,705' Tc=13.8 min CN=69 Runoff=86.33 cfs 9.328 af
Subcatchment 11.1S: Area-11.1	Runoff Area=1,023,137 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=2,640' Tc=21.9 min CN=70 Runoff=61.45 cfs 8.086 af
Subcatchment 11.2S: Area-11.2	Runoff Area=1,440,006 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=2,720' Tc=29.3 min CN=70 Runoff=75.77 cfs 11.380 af

Subcatchment 11.3S: Area-11.3	Runoff Area=2,860,947 sf 8.99% Impervious Runoff Depth=4.47" Flow Length=5,405' Tc=29.0 min CN=73 Runoff=163.63 cfs 24.443 af
Subcatchment 11.4S: Area-11.4	Runoff Area=922,517 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=2,606' Tc=18.0 min CN=70 Runoff=60.46 cfs 7.291 af
Subcatchment 11.6S: Area-11.6	Runoff Area=316,135 sf 0.00% Impervious Runoff Depth=4.35" Flow Length=1,490' Tc=15.2 min CN=72 Runoff=23.49 cfs 2.633 af
Subcatchment 11.7S: Area-11.7	Runoff Area=384,600 sf 0.00% Impervious Runoff Depth=4.24" Flow Length=1,793' Tc=16.1 min CN=71 Runoff=27.06 cfs 3.121 af
Subcatchment 11.8S: Area-11.8	Runoff Area=90,160 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=750' Tc=8.8 min CN=70 Runoff=7.67 cfs 0.713 af
Subcatchment 11.9S: Area-11.9	Runoff Area=89,354 sf 0.00% Impervious Runoff Depth=4.35" Flow Length=1,084' Tc=12.9 min CN=72 Runoff=7.06 cfs 0.744 af
Subcatchment 12.1S: Area-12.1	Runoff Area=684,140 sf 0.00% Impervious Runoff Depth=4.13" Flow Length=1,995' Tc=37.6 min CN=70 Runoff=31.93 cfs 5.407 af
Reach 8.1R: Mountain stream	Avg. Flow Depth=1.33' Max Vel=14.16 fps Inflow=84.88 cfs 9.305 af n=0.040 L=850.0' S=0.1906 1/' Capacity=193.86 cfs Outflow=82.99 cfs 9.305 af
Reach 11.10R: Mountain stream	Avg. Flow Depth=0.76' Max Vel=12.34 fps Inflow=235.04 cfs 33.969 af n=0.040 L=393.0' S=0.1730 1/' Capacity=3,320.07 cfs Outflow=233.86 cfs 33.969 af
Reach 11.1aR: Mountain stream-DP 11.7	Avg. Flow Depth=1.05' Max Vel=11.53 fps Inflow=82.48 cfs 9.924 af n=0.040 L=950.0' S=0.1884 1/' Capacity=186.80 cfs Outflow=81.06 cfs 9.924 af
Reach 11.1R: Mountain stream-DP 11.6	Avg. Flow Depth=0.94' Max Vel=10.37 fps Inflow=60.46 cfs 7.291 af n=0.040 L=310.0' S=0.1742 1/' Capacity=179.61 cfs Outflow=60.09 cfs 7.291 af
Reach 11.3aR: Bouldery stream	Avg. Flow Depth=0.66' Max Vel=13.04 fps Inflow=75.76 cfs 11.381 af n=0.050 L=142.0' S=0.4014 1/' Capacity=748.92 cfs Outflow=75.67 cfs 11.381 af
Reach 11.4aR: DP11.3	Avg. Flow Depth=0.96' Max Vel=14.55 fps Inflow=136.03 cfs 20.179 af n=0.050 L=220.0' S=0.3636 1/' Capacity=858.32 cfs Outflow=135.63 cfs 20.179 af
Reach 11.4bR: DP11.4	Avg. Flow Depth=0.80' Max Vel=11.20 fps Inflow=27.06 cfs 3.121 af n=0.040 L=145.0' S=0.2621 1/' Capacity=231.18 cfs Outflow=26.97 cfs 3.121 af
Reach 11.4R: DP-11.2	Avg. Flow Depth=1.18' Max Vel=10.62 fps Inflow=133.10 cfs 19.467 af n=0.050 L=267.0' S=0.1498 1/' Capacity=558.40 cfs Outflow=132.53 cfs 19.467 af
Reach 11.5aR: DP11.5	Avg. Flow Depth=0.44' Max Vel=7.57 fps Inflow=7.06 cfs 0.744 af n=0.040 L=620.0' S=0.2323 1/' Capacity=217.63 cfs Outflow=6.86 cfs 0.744 af
Reach 11.5R: Mountain stream	Avg. Flow Depth=0.74' Max Vel=13.64 fps Inflow=156.68 cfs 23.301 af n=0.040 L=455.0' S=0.2242 1/' Capacity=3,678.81 cfs Outflow=156.24 cfs 23.301 af

Reach 11.6aR: Mountain stream Avg. Flow Depth=1.10' Max Vel=17.56 fps Inflow=236.83 cfs 33.969 af
n=0.050 L=245.0' S=0.4000 '/ Capacity=3,987.80 cfs Outflow=236.51 cfs 33.969 af

Reach 11.6R: Mountain stream Avg. Flow Depth=1.01' Max Vel=13.21 fps Inflow=161.15 cfs 24.045 af
n=0.050 L=475.0' S=0.2505 '/ Capacity=3,155.95 cfs Outflow=160.47 cfs 24.045 af

Reach 11.8R: Mountain stream Avg. Flow Depth=0.97' Max Vel=15.24 fps Inflow=236.51 cfs 33.969 af
n=0.050 L=360.0' S=0.3139 '/ Capacity=13,400.37 cfs Outflow=235.93 cfs 33.969 af

Reach DP-1: Design Point-1 Avg. Flow Depth=1.32' Max Vel=14.61 fps Inflow=160.44 cfs 19.109 af
n=0.040 L=10.0' S=0.1500 '/ Capacity=670.80 cfs Outflow=160.42 cfs 19.109 af

Reach DP-11: Design Point-11 Inflow=397.26 cfs 58.412 af
Outflow=397.26 cfs 58.412 af

Reach DP-1a: Design Point-1a Avg. Flow Depth=0.83' Max Vel=7.70 fps Inflow=40.23 cfs 5.445 af
n=0.040 L=10.0' S=0.1000 '/ Capacity=97.10 cfs Outflow=40.22 cfs 5.445 af

Reach DP-2: Design Point-2 Avg. Flow Depth=1.00' Max Vel=13.84 fps Inflow=76.69 cfs 10.285 af
n=0.040 L=10.0' S=0.2000 '/ Capacity=233.42 cfs Outflow=76.68 cfs 10.285 af

Reach DP-2a: Design Point 2a Inflow=11.99 cfs 1.078 af
Outflow=11.99 cfs 1.078 af

Reach DP-2b: Design Point 2b Inflow=79.09 cfs 8.726 af
Outflow=79.09 cfs 8.726 af

Reach DP-3: Design Point-3 Inflow=44.54 cfs 4.941 af
Outflow=44.54 cfs 4.941 af

Reach DP-4: Design Point-4 Inflow=67.16 cfs 8.129 af
Outflow=67.16 cfs 8.129 af

Reach DP-5: Design Point-5 Inflow=100.11 cfs 11.292 af
Outflow=100.11 cfs 11.292 af

Reach DP-6: Design Point-6 Inflow=11.76 cfs 0.998 af
Outflow=11.76 cfs 0.998 af

Reach DP-7: Design Point-7 Inflow=16.46 cfs 1.353 af
Outflow=16.46 cfs 1.353 af

Reach DP-8: Design Point-8 Inflow=126.39 cfs 14.161 af
Outflow=126.39 cfs 14.161 af

Reach DP-9: Design Point-9 Inflow=86.33 cfs 9.328 af
Outflow=86.33 cfs 9.328 af

Reach DP12: Design Point-12 Avg. Flow Depth=0.72' Max Vel=10.75 fps Inflow=31.93 cfs 5.407 af
n=0.040 L=10.0' S=0.2000 '/ Capacity=128.70 cfs Outflow=31.93 cfs 5.407 af

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 69

Reach R1.1: Mountain Stream

Avg. Flow Depth=1.18' Max Vel=12.87 fps Inflow=106.55 cfs 12.669 af
n=0.040 L=610.0' S=0.1475 '/' Capacity=639.78 cfs Outflow=105.52 cfs 12.669 af

Pond 11.3R: DP-11.1

Peak Elev=2,412.21' Storage=688 cf Inflow=75.77 cfs 11.380 af
72.0" Round Culvert x 2.00 n=0.025 L=120.0' S=0.1333 '/' Outflow=75.76 cfs 11.381 af

Pond 11.7R: Culvert

Peak Elev=1,896.89' Inflow=236.51 cfs 33.969 af
Outflow=236.51 cfs 33.969 af

Pond 11.9R: Culvert

Peak Elev=1,778.99' Storage=5,515 cf Inflow=235.93 cfs 33.969 af
Outflow=235.04 cfs 33.969 af

Total Runoff Area = 458.600 ac Runoff Volume = 158.664 af Average Runoff Depth = 4.15"
98.58% Pervious = 452.073 ac 1.42% Impervious = 6.527 ac

Summary for Subcatchment 1.1S: Area-1.1

Runoff = 106.55 cfs @ 12.20 hrs, Volume= 12.669 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
1,590,610	70	Woods, Good, HSG C
12,455	77	Woods, Good, HSG D
1,603,065	70	Weighted Average
1,603,065		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.6	75	0.1200	0.15		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
7.8	1,425	0.3700	3.04		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.4	545	0.2000	24.25	698.34	Trap/Vee/Rect Channel Flow, Mountain Stream Bot.W=4.50' D=3.00' Z= 1.7 '/' Top.W=14.70' n= 0.040 Mountain streams
0.6	1,060	0.1600	30.49	2,126.93	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=11.00' D=4.50' Z= 1.0 '/' Top.W=20.00' n= 0.040 Mountain streams
17.4	3,105	Total			

Summary for Subcatchment 1.2S: Area-1.2

Runoff = 57.50 cfs @ 12.17 hrs, Volume= 6.440 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
595,891	70	Woods, Good, HSG C
109,680	77	Woods, Good, HSG D
109,294	65	Brush, Good, HSG C
814,865	70	Weighted Average
814,865		100.00% Pervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 71

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	60	0.5000	0.25		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
10.0	1,690	0.3200	2.83		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.6	540	0.1800	15.23	141.68	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=5.00' D=1.33' Z= 1.5 '/' Top.W=8.99' n= 0.040 Mountain streams
0.6	575	0.0950	16.94	513.38	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=5.00' D=3.00' Z= 1.7 '/' Top.W=15.20' n= 0.040 Mountain streams
15.3	2,865	Total			

Summary for Subcatchment 1.3S: Area-1.3

Runoff = 40.23 cfs @ 12.28 hrs, Volume= 5.445 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
654,368	70	Woods, Good, HSG C
26,555	77	Woods, Good, HSG D
8,088	65	Brush, Good, HSG C
689,011	70	Weighted Average
689,011		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	75	0.3300	0.22		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
11.3	2,040	0.3600	3.00		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
3.0	140	0.1000	0.79		Shallow Concentrated Flow, wetland Forest w/Heavy Litter Kv= 2.5 fps
3.0	370	0.1700	2.06		Shallow Concentrated Flow, shallow concentrated flow: woods Woodland Kv= 5.0 fps
0.4	170	0.1000	6.67	37.22	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=3.00' D=0.70' Z= 7.1 '/' Top.W=12.94' n= 0.040 Mountain streams
23.4	2,795	Total			

Summary for Subcatchment 2aS: Area 2a

Runoff = 11.99 cfs @ 12.07 hrs, Volume= 1.078 af, Depth= 4.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 72

Area (sf)	CN	Description
86,860	70	Woods, Good, HSG C
7,495	77	Woods, Good, HSG D
45,840	65	Brush, Good, HSG C
140,195	69	Weighted Average
140,195		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	90	0.0860	0.29		Sheet Flow, Grass: Short n= 0.150 P2= 3.00"
3.2	465	0.1230	2.45		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
8.4	555	Total			

Summary for Subcatchment 2bS: Area 2b

Runoff = 79.09 cfs @ 12.16 hrs, Volume= 8.726 af, Depth= 4.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
919,510	70	Woods, Good, HSG C
215,010	65	Brush, Good, HSG C
1,134,520	69	Weighted Average
1,134,520		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.1	75	0.2800	0.20		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
8.4	1,215	0.2350	2.42		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
14.5	1,290	Total			

Summary for Subcatchment 2S: Area-2

Runoff = 76.69 cfs @ 12.27 hrs, Volume= 10.285 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
1,187,108	70	Woods, Good, HSG C
54,040	77	Woods, Good, HSG D
60,282	65	Brush, Good, HSG C
1,301,430	70	Weighted Average
1,301,430		100.00% Pervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 73

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.9	75	0.1467	0.16		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
8.1	1,435	0.3456	2.94		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.7	270	0.1600	6.00		Shallow Concentrated Flow, Shallow concentrated: Meadow Grassed Waterway Kv= 15.0 fps
4.5	630	0.2200	2.35		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
1.3	175	0.1040	2.26		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
0.4	275	0.2100	12.35	49.41	Trap/Vee/Rect Channel Flow, Mountain Stream Bot.W=2.00' D=1.00' Z= 2.0 '/' Top.W=6.00' n= 0.040 Mountain streams
23.0	2,860	Total			

Summary for Subcatchment 3S: Area-3

Runoff = 44.54 cfs @ 12.16 hrs, Volume= 4.941 af, Depth= 4.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
530,167	70	Woods, Good, HSG C
5,845	77	Woods, Good, HSG D
106,430	65	Brush, Good, HSG C
642,442	69	Weighted Average
642,442		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	75	0.2200	0.28		Sheet Flow, Sheet flow: meadow Grass: Dense n= 0.240 P2= 3.00"
5.5	975	0.3500	2.96		Shallow Concentrated Flow, Shallow concentrated : woods Woodland Kv= 5.0 fps
2.5	535	0.2500	3.50		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
2.1	400	0.4000	3.16		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.2	200	0.2000	18.83	84.73	Trap/Vee/Rect Channel Flow, DITCH Bot.W=1.50' D=1.50' Z= 1.0 '/' Top.W=4.50' n= 0.030 Earth, grassed & winding
14.8	2,185	Total			

Summary for Subcatchment 4S: Area-4

Runoff = 67.16 cfs @ 12.21 hrs, Volume= 8.129 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
537,225	70	Woods, Good, HSG C
491,385	70	Woods, Good, HSG C
1,028,610	70	Weighted Average
1,028,610		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	75	0.2700	0.30		Sheet Flow, meadow Grass: Dense n= 0.240 P2= 3.00"
3.0	595	0.2200	3.28		Shallow Concentrated Flow, meadow Short Grass Pasture Kv= 7.0 fps
10.9	1,885	0.3300	2.87		Shallow Concentrated Flow, WOODS/MEADOW Woodland Kv= 5.0 fps
0.2	200	0.2000	17.67	211.99	Trap/Vee/Rect Channel Flow, EX DITCH Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Earth, cobble bottom, clean sides
18.2	2,755	Total			

Summary for Subcatchment 5S: Area-5

Runoff = 100.11 cfs @ 12.17 hrs, Volume= 11.292 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
1,291,330	70	Woods, Good, HSG C
52,915	77	Woods, Good, HSG D
84,585	65	Brush, Good, HSG C
1,428,830	70	Weighted Average
1,428,830		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	60	0.3800	0.22		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
10.0	1,730	0.3300	2.87		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.9	835	0.1500	15.66	203.63	Trap/Vee/Rect Channel Flow, Bot.W=2.50' D=2.00' Z= 2.0 '/' Top.W=10.50' n= 0.040 Earth, cobble bottom, clean sides
15.4	2,625	Total			

Summary for Subcatchment 6S: Area-6

Runoff = 11.76 cfs @ 12.05 hrs, Volume= 0.998 af, Depth= 3.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
145,690	65	Brush, Good, HSG C
145,690		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.1	75	0.1600	0.25		Sheet Flow, Sheet flow: Meadow Grass: Dense n= 0.240 P2= 3.00"
0.5	185	0.1500	5.81		Shallow Concentrated Flow, Shallow concentrated: Meadow Grassed Waterway Kv= 15.0 fps
1.3	250	0.2000	3.13		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
6.9	510	Total			

Summary for Subcatchment 7S: Area-7

Runoff = 16.46 cfs @ 12.04 hrs, Volume= 1.353 af, Depth= 3.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
197,522	65	Brush, Good, HSG C
197,522		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	58	0.1800	0.24		Sheet Flow, Sheet flow: Meadow Grass: Dense n= 0.240 P2= 3.00"
1.9	350	0.2000	3.13		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
5.9	408	Total			

Summary for Subcatchment 8.1S: Area-8

Runoff = 49.21 cfs @ 12.11 hrs, Volume= 4.856 af, Depth= 3.91"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 76

Area (sf)	CN	Description
334,862	70	Woods, Good, HSG C
11,266	77	Woods, Good, HSG D
303,022	65	Brush, Good, HSG C
649,150	68	Weighted Average
649,150		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	75	0.1700	0.17		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.7	310	0.1900	3.05		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
1.8	1,320	0.1000	12.49	149.90	Trap/Vee/Rect Channel Flow, mountain stream Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Mountain streams

11.0 1,705 Total

Summary for Subcatchment 8.2S: Area-8.2

Runoff = 84.88 cfs @ 12.16 hrs, Volume= 9.305 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
1,116,405	70	Woods, Good, HSG C
19,084	77	Woods, Good, HSG D
15,820	65	Brush, Good, HSG C
26,111	71	Meadow, non-grazed, HSG C
1,177,420	70	Weighted Average
1,177,420		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	75	0.2400	0.19		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
6.9	1,210	0.3400	2.92		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.9	595	0.0780	11.03	132.39	Trap/Vee/Rect Channel Flow, SWALE Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.040 Mountain streams

14.3 1,880 Total

Summary for Subcatchment 9S: Area-9

Runoff = 86.33 cfs @ 12.15 hrs, Volume= 9.328 af, Depth= 4.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
16,935	98	Paved parking, HSG C
10,120	98	Roofs, HSG C
834,708	70	Woods, Good, HSG C
6,220	77	Woods, Good, HSG D
344,889	65	Brush, Good, HSG C
1,212,872	69	Weighted Average
1,185,817		97.77% Pervious Area
27,055		2.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	75	0.2900	0.21		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.3	245	0.4000	3.16		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
6.5	1,385	0.2600	3.57		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
13.8	1,705	Total			

Summary for Subcatchment 11.1S: Area-11.1

Runoff = 61.45 cfs @ 12.26 hrs, Volume= 8.086 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
908,457	70	Woods, Good, HSG C
114,680	71	Meadow, non-grazed, HSG C
1,023,137	70	Weighted Average
1,023,137		100.00% Pervious Area

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Page 78

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	75	0.1800	0.17		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.8	275	0.2500	2.50		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
2.3	410	0.1800	2.97		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
8.1	1,358	0.3110	2.79		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
2.3	380	0.1600	2.80		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
0.1	142	0.4000	36.21	2,230.45	Trap/Vee/Rect Channel Flow, Bot.W=15.00' D=4.00' Z= 0.1 '/' Top.W=15.80' n= 0.050 Mountain streams w/large boulders
21.9	2,640	Total			

Summary for Subcatchment 11.2S: Area-11.2

Runoff = 75.77 cfs @ 12.36 hrs, Volume= 11.380 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
1,218,126	70	Woods, Good, HSG C
19,210	77	Woods, Good, HSG D
202,670	71	Meadow, non-grazed, HSG C
1,440,006	70	Weighted Average
1,440,006		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	75	0.0933	0.08		Sheet Flow, Sheet flow: Woods Woods: Dense underbrush n= 0.800 P2= 3.00"
4.4	575	0.0960	2.17		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
5.3	885	0.3110	2.79		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
2.2	355	0.2817	2.65		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.8	830	0.2600	17.15	128.61	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 2.0 '/' Top.W=8.00' n= 0.040 Mountain streams
29.3	2,720	Total			

Summary for Subcatchment 11.3S: Area-11.3

Runoff = 163.63 cfs @ 12.36 hrs, Volume= 24.443 af, Depth= 4.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,326,081	70	Woods, Good, HSG C
80,446	74	>75% Grass cover, Good, HSG C
257,243	98	Paved parking & roofs
73,710	77	Woods, Good, HSG D
123,467	71	Meadow, non-grazed, HSG C
2,860,947	73	Weighted Average
2,603,704		91.01% Pervious Area
257,243		8.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	75	0.1133	0.21		Sheet Flow, Sheet flow: Meadow Grass: Dense n= 0.240 P2= 3.00"
4.7	1,038	0.2800	3.70		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
8.9	1,412	0.2800	2.65		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.8	127	0.1500	2.71		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
2.8	450	0.2800	2.65		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
3.0	395	0.0250	2.17	23.92	Trap/Vee/Rect Channel Flow, stream Bot.W=1.00' D=1.00' Z= 10.0 '/' Top.W=21.00' n= 0.070 Sluggish weedy reaches w/pools
0.8	300	0.0250	5.95	71.40	Trap/Vee/Rect Channel Flow, stream Bot.W=1.00' D=2.00' Z= 2.5 '/' Top.W=11.00' n= 0.040 Winding stream, pools & shoals
1.2	720	0.0250	9.97	996.95	Trap/Vee/Rect Channel Flow, stream Bot.W=10.00' D=5.00' Z= 2.0 '/' Top.W=30.00' n= 0.050 Mountain streams w/large boulders
0.1	45	0.0500	13.29	167.02	Pipe Channel, culvert 48.0" Round Area= 12.6 sf Perim= 12.6' r= 1.00' n= 0.025 Corrugated metal
0.1	360	0.3100	53.27	13,317.10	Trap/Vee/Rect Channel Flow, stream Bot.W=15.00' D=10.00' Z= 1.0 '/' Top.W=35.00' n= 0.050 Mountain streams w/large boulders
0.1	90	0.0500	19.28	378.54	Pipe Channel, culvert 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.020 Corrugated PE, corrugated interior
0.6	393	0.0280	10.52	1,068.46	Trap/Vee/Rect Channel Flow, Bot.W=25.00' D=4.00' Z= 0.1 '/' Top.W=25.80' n= 0.050 Mountain streams w/large boulders

29.0 5,405 Total

Summary for Subcatchment 11.4S: Area-11.4

Runoff = 60.46 cfs @ 12.20 hrs, Volume= 7.291 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
718,603	70	Woods, Good, HSG C
35,806	77	Woods, Good, HSG D
43,994	65	Brush, Good, HSG C
124,114	71	Meadow, non-grazed, HSG C
922,517	70	Weighted Average
922,517		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	75	0.3200	0.22		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
1.8	330	0.2000	3.13		Shallow Concentrated Flow, Shallow concentrated:ski trail Short Grass Pasture Kv= 7.0 fps
2.9	516	0.3500	2.96		Shallow Concentrated Flow, Shallow concentrated:woods Woodland Kv= 5.0 fps
0.7	130	0.1800	2.97		Shallow Concentrated Flow, ski trail Short Grass Pasture Kv= 7.0 fps
6.3	1,055	0.3100	2.78		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.5	500	0.2300	15.72	206.39	Trap/Vee/Rect Channel Flow, stream Bot.W=2.00' D=1.50' Z= 4.5 '/' Top.W=15.50' n= 0.040 Mountain streams
18.0	2,606	Total			

Summary for Subcatchment 11.6S: Area-11.6

Runoff = 23.49 cfs @ 12.17 hrs, Volume= 2.633 af, Depth= 4.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
239,255	70	Woods, Good, HSG C
76,880	77	Woods, Good, HSG D
316,135	72	Weighted Average
316,135		100.00% Pervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 81

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	50	0.1700	0.34		Sheet Flow, Sheet flow Grass: Short n= 0.150 P2= 3.00"
3.8	50	0.4000	0.22		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.00"
4.1	720	0.3500	2.96		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
1.3	140	0.1200	1.73		Shallow Concentrated Flow, Shallow concentrated: Wetland Woodland Kv= 5.0 fps
3.5	530	0.2600	2.55		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
15.2	1,490	Total			

Summary for Subcatchment 11.7S: Area-11.7

Runoff = 27.06 cfs @ 12.18 hrs, Volume= 3.121 af, Depth= 4.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
292,104	70	Woods, Good, HSG C
23,860	77	Woods, Good, HSG D
68,636	71	Meadow, non-grazed, HSG C
384,600	71	Weighted Average
384,600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	75	0.1700	0.17		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
2.5	435	0.3500	2.96		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
1.0	200	0.2200	3.28		Shallow Concentrated Flow, Shallow concentrated: Meadow Short Grass Pasture Kv= 7.0 fps
4.6	723	0.2800	2.65		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.5	360	0.2300	11.54	126.95	Trap/Vee/Rect Channel Flow, Bot.W=1.00' D=1.00' Z= 10.0 '/' Top.W=21.00' n= 0.040 Mountain streams
16.1	1,793	Total			

Summary for Subcatchment 11.8S: Area-11.8

Runoff = 7.67 cfs @ 12.08 hrs, Volume= 0.713 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 82

Area (sf)	CN	Description
66,892	70	Woods, Good, HSG C
1,380	77	Woods, Good, HSG D
21,888	71	Meadow, non-grazed, HSG C
90,160	70	Weighted Average
90,160		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	75	0.1800	0.26		Sheet Flow, Sheet flow: Woods Grass: Dense n= 0.240 P2= 3.00"
3.8	575	0.2500	2.50		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.1	100	0.2500	12.03	132.35	Trap/Vee/Rect Channel Flow, Bot.W=1.00' D=1.00' Z= 10.0 ' /' Top.W=21.00' n= 0.040 Winding stream, pools & shoals

8.8 750 Total

Summary for Subcatchment 11.9S: Area-11.9

Runoff = 7.06 cfs @ 12.13 hrs, Volume= 0.744 af, Depth= 4.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
69,494	70	Woods, Good, HSG C
19,860	77	Woods, Good, HSG D
89,354	72	Weighted Average
89,354		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	75	0.1700	0.17		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
5.3	911	0.3300	2.87		Shallow Concentrated Flow, Shallow concentrated: Woods Woodland Kv= 5.0 fps
0.1	98	0.2300	11.54	126.95	Trap/Vee/Rect Channel Flow, Bot.W=1.00' D=1.00' Z= 10.0 ' /' Top.W=21.00' n= 0.040 Mountain streams

12.9 1,084 Total

Summary for Subcatchment 12.1S: Area-12.1

Runoff = 31.93 cfs @ 12.48 hrs, Volume= 5.407 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
14,955	77	Woods, Good, HSG D
669,185	70	Woods, Good, HSG C
684,140	70	Weighted Average
684,140		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	75	0.1600	0.16		Sheet Flow, Sheet flow: Woods Woods: Light underbrush n= 0.400 P2= 3.00"
29.6	1,685	0.0360	0.95		Shallow Concentrated Flow, woods Woodland Kv= 5.0 fps
0.3	235	0.1600	14.19	118.17	Trap/Vee/Rect Channel Flow, stream/wetland Bot.W=3.00' D=1.50' Z= 1.7 '/' Top.W=8.10' n= 0.040 Mountain streams
37.6	1,995	Total			

Summary for Reach 8.1R: Mountain stream

Inflow Area = 27.030 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
 Inflow = 84.88 cfs @ 12.16 hrs, Volume= 9.305 af
 Outflow = 82.99 cfs @ 12.19 hrs, Volume= 9.305 af, Atten= 2%, Lag= 1.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Max. Velocity= 14.16 fps, Min. Travel Time= 1.0 min
 Avg. Velocity = 5.30 fps, Avg. Travel Time= 2.7 min

Peak Storage= 5,074 cf @ 12.17 hrs
 Average Depth at Peak Storage= 1.33'
 Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 193.86 cfs

2.50' x 2.00' deep channel, n= 0.040 Mountain streams
 Side Slope Z-value= 1.5 '/' Top Width= 8.50'
 Length= 850.0' Slope= 0.1906 '/'
 Inlet Invert= 1,816.00', Outlet Invert= 1,654.00'



Summary for Reach 11.10R: Mountain stream

Inflow Area = 97.932 ac, 0.00% Impervious, Inflow Depth = 4.16" for 100-yr Local event
 Inflow = 235.04 cfs @ 12.32 hrs, Volume= 33.969 af
 Outflow = 233.86 cfs @ 12.34 hrs, Volume= 33.969 af, Atten= 1%, Lag= 1.0 min

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 84

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 12.34 fps, Min. Travel Time= 0.5 min
Avg. Velocity = 3.98 fps, Avg. Travel Time= 1.6 min

Peak Storage= 7,457 cf @ 12.33 hrs
Average Depth at Peak Storage= 0.76'
Bank-Full Depth= 4.00' Flow Area= 101.6 sf, Capacity= 3,320.07 cfs

25.00' x 4.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 0.1 '/' Top Width= 25.80'
Length= 393.0' Slope= 0.1730 '/'
Inlet Invert= 1,768.00', Outlet Invert= 1,700.00'



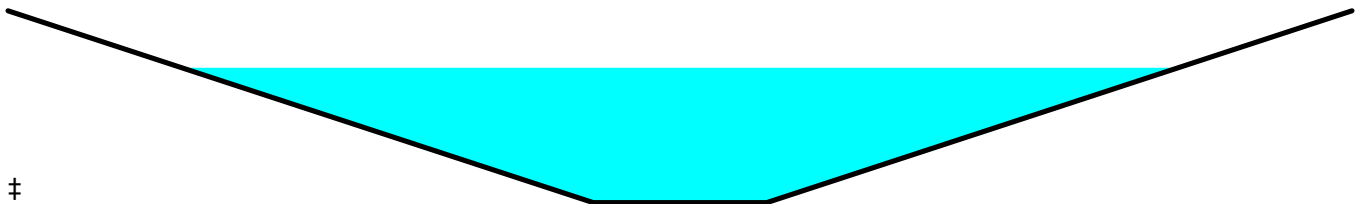
Summary for Reach 11.1aR: Mountain stream-DP 11.7

Inflow Area =	28.436 ac,	0.00% Impervious,	Inflow Depth =	4.19"	for 100-yr Local event
Inflow =	82.48 cfs @	12.20 hrs,	Volume=	9.924 af	
Outflow =	81.06 cfs @	12.25 hrs,	Volume=	9.924 af,	Atten= 2%, Lag= 2.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 11.53 fps, Min. Travel Time= 1.4 min
Avg. Velocity = 4.67 fps, Avg. Travel Time= 3.4 min

Peak Storage= 6,755 cf @ 12.22 hrs
Average Depth at Peak Storage= 1.05'
Bank-Full Depth= 1.50' Flow Area= 13.1 sf, Capacity= 186.80 cfs

2.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.5 '/' Top Width= 15.50'
Length= 950.0' Slope= 0.1884 '/'
Inlet Invert= 2,169.00', Outlet Invert= 1,990.00'



‡

Summary for Reach 11.1R: Mountain stream-DP 11.6

Inflow Area = 21.178 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
Inflow = 60.46 cfs @ 12.20 hrs, Volume= 7.291 af
Outflow = 60.09 cfs @ 12.22 hrs, Volume= 7.291 af, Atten= 1%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.37 fps, Min. Travel Time= 0.5 min
Avg. Velocity = 4.43 fps, Avg. Travel Time= 1.2 min

Peak Storage= 1,807 cf @ 12.21 hrs
Average Depth at Peak Storage= 0.94'
Bank-Full Depth= 1.50' Flow Area= 13.1 sf, Capacity= 179.61 cfs

2.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.5 '/ Top Width= 15.50'
Length= 310.0' Slope= 0.1742 '/
Inlet Invert= 2,224.00', Outlet Invert= 2,170.00'



Summary for Reach 11.3aR: Bouldery stream

Inflow Area = 33.058 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
Inflow = 75.76 cfs @ 12.37 hrs, Volume= 11.381 af
Outflow = 75.67 cfs @ 12.37 hrs, Volume= 11.381 af, Atten= 0%, Lag= 0.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 13.04 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 4.58 fps, Avg. Travel Time= 0.5 min

Peak Storage= 824 cf @ 12.37 hrs
Average Depth at Peak Storage= 0.66'
Bank-Full Depth= 2.50' Flow Area= 27.5 sf, Capacity= 748.92 cfs

8.00' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.2 '/ Top Width= 14.00'
Length= 142.0' Slope= 0.4014 '/
Inlet Invert= 2,390.00', Outlet Invert= 2,333.00'



Summary for Reach 11.4aR: DP11.3

Inflow Area = 58.616 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
Inflow = 136.03 cfs @ 12.32 hrs, Volume= 20.179 af
Outflow = 135.63 cfs @ 12.33 hrs, Volume= 20.179 af, Atten= 0%, Lag= 0.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 14.55 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 5.48 fps, Avg. Travel Time= 0.7 min

Peak Storage= 2,051 cf @ 12.33 hrs
Average Depth at Peak Storage= 0.96'
Bank-Full Depth= 2.50' Flow Area= 35.0 sf, Capacity= 858.32 cfs

7.00' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.8 '/ Top Width= 21.00'
Length= 220.0' Slope= 0.3636 '/
Inlet Invert= 2,292.00', Outlet Invert= 2,212.00'



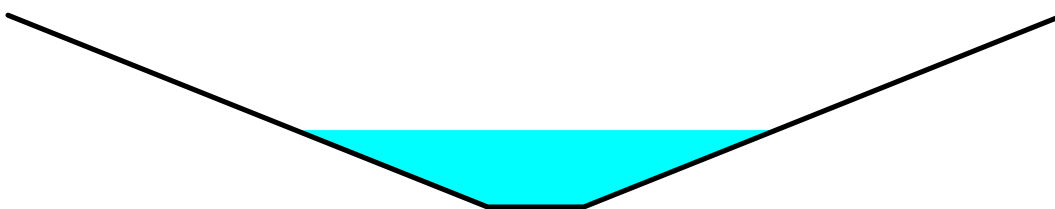
Summary for Reach 11.4bR: DP11.4

Inflow Area = 8.829 ac, 0.00% Impervious, Inflow Depth = 4.24" for 100-yr Local event
Inflow = 27.06 cfs @ 12.18 hrs, Volume= 3.121 af
Outflow = 26.97 cfs @ 12.19 hrs, Volume= 3.121 af, Atten= 0%, Lag= 0.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 11.20 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 4.80 fps, Avg. Travel Time= 0.5 min

Peak Storage= 350 cf @ 12.18 hrs
Average Depth at Peak Storage= 0.80'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 231.18 cfs

1.00' x 2.00' deep channel, n= 0.040 Winding stream, pools & shoals
Side Slope Z-value= 2.5 '/ Top Width= 11.00'
Length= 145.0' Slope= 0.2621 '/
Inlet Invert= 2,250.00', Outlet Invert= 2,212.00'



Summary for Reach 11.4R: DP-11.2

Inflow Area = 56.546 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
Inflow = 133.10 cfs @ 12.31 hrs, Volume= 19.467 af
Outflow = 132.53 cfs @ 12.33 hrs, Volume= 19.467 af, Atten= 0%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.62 fps, Min. Travel Time= 0.4 min
Avg. Velocity = 3.99 fps, Avg. Travel Time= 1.1 min

Peak Storage= 3,343 cf @ 12.32 hrs
Average Depth at Peak Storage= 1.18'
Bank-Full Depth= 2.50' Flow Area= 35.0 sf, Capacity= 558.40 cfs

7.50' x 2.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.6 '/ Top Width= 20.50'
Length= 267.0' Slope= 0.1498 '/
Inlet Invert= 2,332.00', Outlet Invert= 2,292.00'



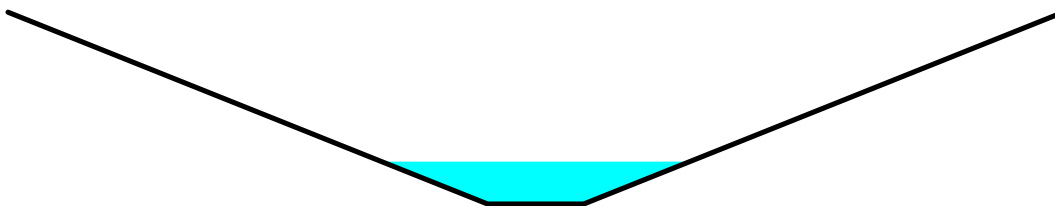
Summary for Reach 11.5aR: DP11.5

Inflow Area = 2.051 ac, 0.00% Impervious, Inflow Depth = 4.35" for 100-yr Local event
Inflow = 7.06 cfs @ 12.13 hrs, Volume= 0.744 af
Outflow = 6.86 cfs @ 12.18 hrs, Volume= 0.744 af, Atten= 3%, Lag= 2.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.57 fps, Min. Travel Time= 1.4 min
Avg. Velocity = 2.97 fps, Avg. Travel Time= 3.5 min

Peak Storage= 576 cf @ 12.15 hrs
Average Depth at Peak Storage= 0.44'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 217.63 cfs

1.00' x 2.00' deep channel, n= 0.040 Winding stream, pools & shoals
Side Slope Z-value= 2.5 '/ Top Width= 11.00'
Length= 620.0' Slope= 0.2323 '/
Inlet Invert= 2,254.00', Outlet Invert= 2,110.00'



Summary for Reach 11.5R: Mountain stream

Inflow Area = 67.445 ac, 0.00% Impervious, Inflow Depth = 4.15" for 100-yr Local event
Inflow = 156.68 cfs @ 12.31 hrs, Volume= 23.301 af
Outflow = 156.24 cfs @ 12.32 hrs, Volume= 23.301 af, Atten= 0%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 13.64 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 4.68 fps, Avg. Travel Time= 1.6 min

Peak Storage= 5,223 cf @ 12.31 hrs
Average Depth at Peak Storage= 0.74'
Bank-Full Depth= 5.00' Flow Area= 92.5 sf, Capacity= 3,678.81 cfs

15.00' x 5.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 0.7 '/' Top Width= 22.00'
Length= 455.0' Slope= 0.2242 '/'
Inlet Invert= 2,212.00', Outlet Invert= 2,110.00'



Summary for Reach 11.6aR: Mountain stream

Inflow Area = 97.932 ac, 0.00% Impervious, Inflow Depth = 4.16" for 100-yr Local event
Inflow = 236.83 cfs @ 12.29 hrs, Volume= 33.969 af
Outflow = 236.51 cfs @ 12.30 hrs, Volume= 33.969 af, Atten= 0%, Lag= 0.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 17.56 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 6.18 fps, Avg. Travel Time= 0.7 min

Peak Storage= 3,305 cf @ 12.30 hrs
Average Depth at Peak Storage= 1.10'
Bank-Full Depth= 5.00' Flow Area= 100.0 sf, Capacity= 3,987.80 cfs

10.00' x 5.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.0 '/' Top Width= 30.00'
Length= 245.0' Slope= 0.4000 '/'
Inlet Invert= 1,990.00', Outlet Invert= 1,892.00'



Summary for Reach 11.6R: Mountain stream

Inflow Area = 69.496 ac, 0.00% Impervious, Inflow Depth = 4.15" for 100-yr Local event
Inflow = 161.15 cfs @ 12.32 hrs, Volume= 24.045 af
Outflow = 160.47 cfs @ 12.33 hrs, Volume= 24.045 af, Atten= 0%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 13.21 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 4.74 fps, Avg. Travel Time= 1.7 min

Peak Storage= 5,786 cf @ 12.32 hrs
Average Depth at Peak Storage= 1.01'
Bank-Full Depth= 5.00' Flow Area= 100.0 sf, Capacity= 3,155.95 cfs

10.00' x 5.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.0 '/' Top Width= 30.00'
Length= 475.0' Slope= 0.2505 '/'
Inlet Invert= 2,109.00', Outlet Invert= 1,990.00'



Summary for Reach 11.8R: Mountain stream

Inflow Area = 97.932 ac, 0.00% Impervious, Inflow Depth = 4.16" for 100-yr Local event
Inflow = 236.51 cfs @ 12.30 hrs, Volume= 33.969 af
Outflow = 235.93 cfs @ 12.31 hrs, Volume= 33.969 af, Atten= 0%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 15.24 fps, Min. Travel Time= 0.4 min
Avg. Velocity = 5.42 fps, Avg. Travel Time= 1.1 min

Peak Storage= 5,587 cf @ 12.31 hrs
Average Depth at Peak Storage= 0.97'
Bank-Full Depth= 10.00' Flow Area= 250.0 sf, Capacity= 13,400.37 cfs

15.00' x 10.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 35.00'
Length= 360.0' Slope= 0.3139 '/'
Inlet Invert= 1,887.00', Outlet Invert= 1,774.00'



Summary for Reach DP-1: Design Point-1

Inflow Area = 55.508 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
Inflow = 160.44 cfs @ 12.20 hrs, Volume= 19.109 af
Outflow = 160.42 cfs @ 12.20 hrs, Volume= 19.109 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 14.61 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 4.91 fps, Avg. Travel Time= 0.0 min

Peak Storage= 110 cf @ 12.20 hrs
Average Depth at Peak Storage= 1.32'
Bank-Full Depth= 3.00' Flow Area= 30.0 sf, Capacity= 670.80 cfs

7.00' x 3.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.0 '/' Top Width= 13.00'
Length= 10.0' Slope= 0.1500 '/'
Inlet Invert= 0.00', Outlet Invert= -1.50'



Summary for Reach DP-11: Design Point-11

Inflow Area = 163.610 ac, 3.61% Impervious, Inflow Depth = 4.28" for 100-yr Local event
Inflow = 397.26 cfs @ 12.35 hrs, Volume= 58.412 af
Outflow = 397.26 cfs @ 12.35 hrs, Volume= 58.412 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-1a: Design Point-1a

Inflow Area = 15.818 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
Inflow = 40.23 cfs @ 12.28 hrs, Volume= 5.445 af
Outflow = 40.22 cfs @ 12.28 hrs, Volume= 5.445 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.70 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 3.21 fps, Avg. Travel Time= 0.1 min

Peak Storage= 52 cf @ 12.28 hrs
Average Depth at Peak Storage= 0.83'
Bank-Full Depth= 1.25' Flow Area= 10.0 sf, Capacity= 97.10 cfs

3.00' x 1.25' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 4.0 '/' Top Width= 13.00'
Length= 10.0' Slope= 0.1000 '/'
Inlet Invert= 0.00', Outlet Invert= -1.00'



Summary for Reach DP-2: Design Point-2

Inflow Area = 29.877 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
Inflow = 76.69 cfs @ 12.27 hrs, Volume= 10.285 af
Outflow = 76.68 cfs @ 12.27 hrs, Volume= 10.285 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 13.84 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 4.88 fps, Avg. Travel Time= 0.0 min

Peak Storage= 55 cf @ 12.27 hrs
Average Depth at Peak Storage= 1.00'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 233.42 cfs

5.00' x 2.00' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 0.5 '/' Top Width= 7.00'
Length= 10.0' Slope= 0.2000 '/'
Inlet Invert= 0.00', Outlet Invert= -2.00'



Summary for Reach DP-2a: Design Point 2a

Inflow Area = 3.218 ac, 0.00% Impervious, Inflow Depth = 4.02" for 100-yr Local event
Inflow = 11.99 cfs @ 12.07 hrs, Volume= 1.078 af
Outflow = 11.99 cfs @ 12.07 hrs, Volume= 1.078 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-2b: Design Point 2b

Inflow Area = 26.045 ac, 0.00% Impervious, Inflow Depth = 4.02" for 100-yr Local event
Inflow = 79.09 cfs @ 12.16 hrs, Volume= 8.726 af
Outflow = 79.09 cfs @ 12.16 hrs, Volume= 8.726 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-3: Design Point-3

Inflow Area = 14.748 ac, 0.00% Impervious, Inflow Depth = 4.02" for 100-yr Local event
Inflow = 44.54 cfs @ 12.16 hrs, Volume= 4.941 af
Outflow = 44.54 cfs @ 12.16 hrs, Volume= 4.941 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-4: Design Point-4

Inflow Area = 23.614 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
Inflow = 67.16 cfs @ 12.21 hrs, Volume= 8.129 af
Outflow = 67.16 cfs @ 12.21 hrs, Volume= 8.129 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-5: Design Point-5

Inflow Area = 32.801 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
Inflow = 100.11 cfs @ 12.17 hrs, Volume= 11.292 af
Outflow = 100.11 cfs @ 12.17 hrs, Volume= 11.292 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-6: Design Point-6

Inflow Area = 3.345 ac, 0.00% Impervious, Inflow Depth = 3.58" for 100-yr Local event
Inflow = 11.76 cfs @ 12.05 hrs, Volume= 0.998 af
Outflow = 11.76 cfs @ 12.05 hrs, Volume= 0.998 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-7: Design Point-7

Inflow Area = 4.534 ac, 0.00% Impervious, Inflow Depth = 3.58" for 100-yr Local event
Inflow = 16.46 cfs @ 12.04 hrs, Volume= 1.353 af
Outflow = 16.46 cfs @ 12.04 hrs, Volume= 1.353 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-8: Design Point-8

Inflow Area = 41.932 ac, 0.00% Impervious, Inflow Depth = 4.05" for 100-yr Local event
Inflow = 126.39 cfs @ 12.16 hrs, Volume= 14.161 af
Outflow = 126.39 cfs @ 12.16 hrs, Volume= 14.161 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP-9: Design Point-9

Inflow Area = 27.844 ac, 2.23% Impervious, Inflow Depth = 4.02" for 100-yr Local event
Inflow = 86.33 cfs @ 12.15 hrs, Volume= 9.328 af
Outflow = 86.33 cfs @ 12.15 hrs, Volume= 9.328 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Summary for Reach DP12: Design Point-12

Inflow Area = 15.706 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
Inflow = 31.93 cfs @ 12.48 hrs, Volume= 5.407 af
Outflow = 31.93 cfs @ 12.48 hrs, Volume= 5.407 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.75 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 4.28 fps, Avg. Travel Time= 0.0 min

Peak Storage= 30 cf @ 12.48 hrs
Average Depth at Peak Storage= 0.72'
Bank-Full Depth= 1.50' Flow Area= 8.1 sf, Capacity= 128.70 cfs

3.00' x 1.50' deep channel, n= 0.040 Mountain streams
Side Slope Z-value= 1.6 '/ Top Width= 7.80'
Length= 10.0' Slope= 0.2000 '/
Inlet Invert= 0.00', Outlet Invert= -2.00'



Summary for Reach R1.1: Mountain Stream

Inflow Area = 36.801 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
Inflow = 106.55 cfs @ 12.20 hrs, Volume= 12.669 af
Outflow = 105.52 cfs @ 12.22 hrs, Volume= 12.669 af, Atten= 1%, Lag= 1.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Max. Velocity= 12.87 fps, Min. Travel Time= 0.8 min
 Avg. Velocity= 4.60 fps, Avg. Travel Time= 2.2 min

Peak Storage= 5,047 cf @ 12.21 hrs
 Average Depth at Peak Storage= 1.18'
 Bank-Full Depth= 3.00' Flow Area= 30.3 sf, Capacity= 639.78 cfs

5.00' x 3.00' deep channel, n= 0.040 Mountain streams
 Side Slope Z-value= 1.7 '/' Top Width= 15.20'
 Length= 610.0' Slope= 0.1475 '/'
 Inlet Invert= 2,200.00', Outlet Invert= 2,110.00'



Summary for Pond 11.3R: DP-11.1

Inflow Area = 33.058 ac, 0.00% Impervious, Inflow Depth = 4.13" for 100-yr Local event
 Inflow = 75.77 cfs @ 12.36 hrs, Volume= 11.380 af
 Outflow = 75.76 cfs @ 12.37 hrs, Volume= 11.381 af, Atten= 0%, Lag= 0.1 min
 Primary = 75.76 cfs @ 12.37 hrs, Volume= 11.381 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 2,412.21' @ 12.37 hrs Surf.Area= 322 sf Storage= 688 cf

Plug-Flow detention time= 0.3 min calculated for 11.377 af (100% of inflow)
 Center-of-Mass det. time= 0.4 min (871.7 - 871.3)

Volume	Invert	Avail.Storage	Storage Description
#1	2,410.00'	3,500 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
2,410.00	300	0	0
2,420.00	400	3,500	3,500

Device	Routing	Invert	Outlet Devices
#1	Primary	2,410.00'	72.0" Round Culvert X 2.00 L= 120.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 2,410.00' / 2,394.00' S= 0.1333 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 28.27 sf

Primary OutFlow Max=75.42 cfs @ 12.37 hrs HW=2,412.21' (Free Discharge)

↑1=Culvert (Inlet Controls 75.42 cfs @ 3.99 fps)

Summary for Pond 11.7R: Culvert

Inflow Area = 97.932 ac, 0.00% Impervious, Inflow Depth = 4.16" for 100-yr Local event
 Inflow = 236.51 cfs @ 12.30 hrs, Volume= 33.969 af
 Outflow = 236.51 cfs @ 12.30 hrs, Volume= 33.969 af, Atten= 0%, Lag= 0.0 min
 Primary = 236.51 cfs @ 12.30 hrs, Volume= 33.969 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,896.89' @ 12.30 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,890.00'	48.0" Round Culvert L= 45.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,890.00' / 1,888.00' S= 0.0444 '/ Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf
#2	Primary	1,895.00'	15.0' long x 35.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=236.35 cfs @ 12.30 hrs HW=1,896.89' (Free Discharge)

- 1=Culvert (Inlet Controls 133.81 cfs @ 10.65 fps)
- 2=Broad-Crested Rectangular Weir (Weir Controls 102.54 cfs @ 3.62 fps)

Summary for Pond 11.9R: Culvert

Inflow Area = 97.932 ac, 0.00% Impervious, Inflow Depth = 4.16" for 100-yr Local event
 Inflow = 235.93 cfs @ 12.31 hrs, Volume= 33.969 af
 Outflow = 235.04 cfs @ 12.32 hrs, Volume= 33.969 af, Atten= 0%, Lag= 0.5 min
 Primary = 235.04 cfs @ 12.32 hrs, Volume= 33.969 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,778.99' @ 12.32 hrs Surf.Area= 1,040 sf Storage= 5,515 cf

Plug-Flow detention time= 0.7 min calculated for 33.957 af (100% of inflow)
 Center-of-Mass det. time= 0.7 min (871.7 - 871.0)

Volume	Invert	Avail.Storage	Storage Description
#1	1,773.00'	10,000 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

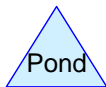
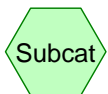
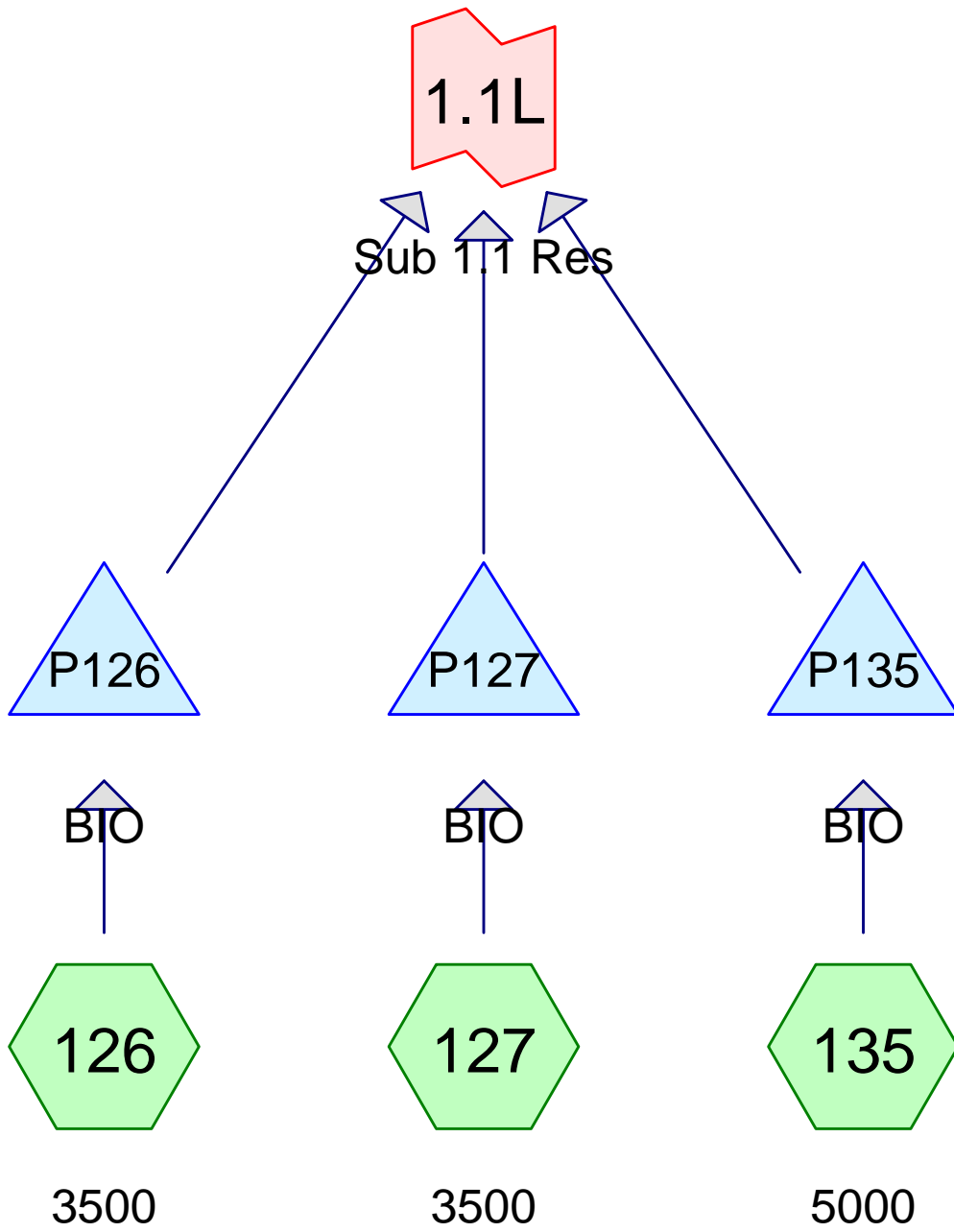
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,773.00	800	0	0
1,783.00	1,200	10,000	10,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,773.00'	60.0" Round Culvert L= 90.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,773.00' / 1,767.00' S= 0.0667 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 19.63 sf
#2	Primary	1,773.00'	48.0" Round Culvert L= 90.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,773.00' / 1,770.00' S= 0.0333 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=233.60 cfs @ 12.32 hrs HW=1,778.95' (Free Discharge)

└1=Culvert (Inlet Controls 138.65 cfs @ 7.06 fps)

└2=Culvert (Inlet Controls 94.95 cfs @ 7.56 fps)



Routing Diagram for 08077_Sub 1.1
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.069	98	Driveway, extra imperv., HSG C (126, 127, 135)
0.207	98	Roofs, HSG C (126, 127, 135)
0.275	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.275	HSG C	126, 127, 135
0.000	HSG D	
0.000	Other	
0.275		TOTAL AREA

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 126: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 127: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 135: 5000 Runoff Area=5,000 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.29 cfs 0.020 af

Pond P126: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P127: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P135: BIO Peak Elev=1,686.35' Storage=386 cf Inflow=0.29 cfs 0.020 af
Outflow=0.01 cfs 0.020 af

Link 1.1L: Sub 1.1 Res Inflow=0.03 cfs 0.049 af
Primary=0.03 cfs 0.049 af

Total Runoff Area = 0.275 ac Runoff Volume = 0.049 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.275 ac

Summary for Subcatchment 126: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 127: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 135: 5000

Runoff = 0.29 cfs @ 12.04 hrs, Volume= 0.020 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,000	98	Weighted Average
5,000		100.00% Impervious Area

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

Summary for Pond P126: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)
 1=Orifice/Grate (Controls 0.00 cfs)
 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P127: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 1.1

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P135: BIO

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.29 cfs @ 12.04 hrs, Volume= 0.020 af
 Outflow = 0.01 cfs @ 13.71 hrs, Volume= 0.020 af, Atten= 95%, Lag= 100.1 min
 Primary = 0.01 cfs @ 13.71 hrs, Volume= 0.020 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.35' @ 13.71 hrs Surf.Area= 1,194 sf Storage= 386 cf

Plug-Flow detention time= 247.7 min calculated for 0.020 af (100% of inflow)
 Center-of-Mass det. time= 247.7 min (1,013.9 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,025 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,025	0	0
1,688.00	2,000	3,025	3,025

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.71 hrs HW=1,686.35' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 1.1L: Sub 1.1 Res

Inflow Area = 0.275 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.03 cfs @ 13.63 hrs, Volume= 0.049 af
 Primary = 0.03 cfs @ 13.63 hrs, Volume= 0.049 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 126: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 127: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 135: 5000 Runoff Area=5,000 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.48 cfs 0.038 af

Pond P126: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P127: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P135: BIO Peak Elev=1,686.63' Storage=747 cf Inflow=0.48 cfs 0.038 af
Outflow=0.05 cfs 0.038 af

Link 1.1L: Sub 1.1 Res Inflow=0.09 cfs 0.092 af
Primary=0.09 cfs 0.092 af

Total Runoff Area = 0.275 ac Runoff Volume = 0.092 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.275 ac

Summary for Subcatchment 126: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 127: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 135: 5000

Runoff = 0.48 cfs @ 12.04 hrs, Volume= 0.038 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,000	98	Weighted Average
5,000		100.00% Impervious Area

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

Summary for Pond P126: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume = 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af, Atten = 93%, Lag = 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.62' @ 13.15 hrs Surf.Area = 1,018 sf Storage = 538 cf

Plug-Flow detention time = 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time = 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.02 cfs @ 13.15 hrs HW = 1,686.62' (Free Discharge)
 1 = **Orifice/Grate** (Weir Controls 0.01 cfs @ 0.43 fps)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P127: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume = 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af, Atten = 93%, Lag = 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.62' @ 13.15 hrs Surf.Area = 1,018 sf Storage = 538 cf

Plug-Flow detention time = 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time = 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 11

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P135: BIO

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.48 cfs @ 12.04 hrs, Volume= 0.038 af
 Outflow = 0.05 cfs @ 12.73 hrs, Volume= 0.038 af, Atten= 90%, Lag= 41.7 min
 Primary = 0.05 cfs @ 12.73 hrs, Volume= 0.038 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.63' @ 12.73 hrs Surf.Area= 1,334 sf Storage= 747 cf

Plug-Flow detention time= 401.3 min calculated for 0.038 af (100% of inflow)
 Center-of-Mass det. time= 401.4 min (1,153.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,025 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,025	0	0
1,688.00	2,000	3,025	3,025

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.05 cfs @ 12.73 hrs HW=1,686.63' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.03 cfs @ 0.59 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 1.1L: Sub 1.1 Res

Inflow Area = 0.275 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.09 cfs @ 13.00 hrs, Volume= 0.092 af
 Primary = 0.09 cfs @ 13.00 hrs, Volume= 0.092 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 12

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 126: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 127: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 135: 5000

Runoff Area=5,000 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.75 cfs 0.071 af

Pond P126: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P127: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P135: BIO

Peak Elev=1,686.80' Storage=978 cf Inflow=0.75 cfs 0.071 af
Outflow=0.44 cfs 0.070 af

Link 1.1L: Sub 1.1 Res

Inflow=1.10 cfs 0.169 af
Primary=1.10 cfs 0.169 af

Total Runoff Area = 0.275 ac Runoff Volume = 0.169 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.275 ac

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 13

Summary for Subcatchment 126: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 127: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 135: 5000

Runoff = 0.75 cfs @ 12.04 hrs, Volume= 0.071 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,000	98	Weighted Average
5,000		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 14

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

Summary for Pond P126: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)
 1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)
 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P127: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 1.1

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 15

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P135: BIO

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.75 cfs @ 12.04 hrs, Volume= 0.071 af
 Outflow = 0.44 cfs @ 12.15 hrs, Volume= 0.070 af, Atten= 42%, Lag= 6.5 min
 Primary = 0.44 cfs @ 12.15 hrs, Volume= 0.070 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.80' @ 12.15 hrs Surf.Area= 1,416 sf Storage= 978 cf

Plug-Flow detention time= 291.5 min calculated for 0.070 af (100% of inflow)
 Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,025 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,025	0	0
1,688.00	2,000	3,025	3,025

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.44 cfs @ 12.15 hrs HW=1,686.80' (Free Discharge)

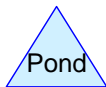
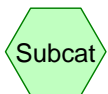
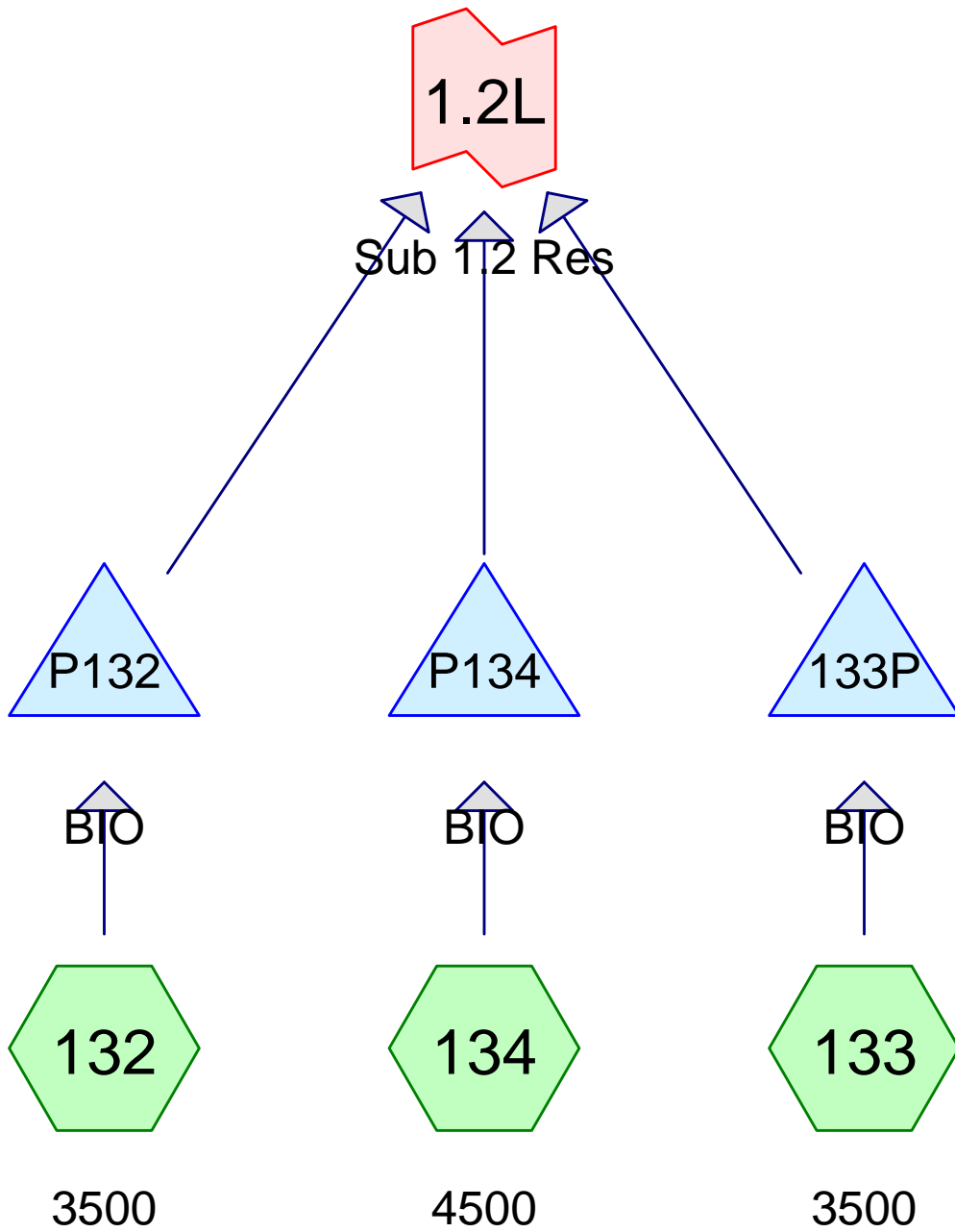
1=Orifice/Grate (Orifice Controls 0.42 cfs @ 2.16 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 1.1L: Sub 1.1 Res

Inflow Area = 0.275 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.10 cfs @ 12.14 hrs, Volume= 0.169 af
 Primary = 1.10 cfs @ 12.14 hrs, Volume= 0.169 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 1.2
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.069	98	Driveway, extra imperv., HSG C (132, 133, 134)
0.195	98	Roofs, HSG C (132, 133, 134)
0.264	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.264	HSG C	132, 133, 134
0.000	HSG D	
0.000	Other	
0.264		TOTAL AREA

08077_Sub 1.2

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 132: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 133: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 134: 4500 Runoff Area=4,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.26 cfs 0.018 af

Pond 133P: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P132: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P134: BIO Peak Elev=1,686.32' Storage=334 cf Inflow=0.26 cfs 0.018 af
Outflow=0.01 cfs 0.018 af

Link 1.2L: Sub 1.2 Res Inflow=0.03 cfs 0.047 af
Primary=0.03 cfs 0.047 af

Total Runoff Area = 0.264 ac Runoff Volume = 0.047 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.264 ac

Summary for Subcatchment 132: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 133: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 134: 4500

Runoff = 0.26 cfs @ 12.04 hrs, Volume= 0.018 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
3,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,500	98	Weighted Average
4,500		100.00% Impervious Area

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

Summary for Pond 133P: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume = 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af, Atten = 95%, Lag = 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.32' @ 13.59 hrs Surf.Area = 879 sf Storage = 260 cf

Plug-Flow detention time = 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time = 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.01 cfs @ 13.59 hrs HW = 1,686.32' (Free Discharge)
 1 = **Orifice/Grate** (Controls 0.00 cfs)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P132: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume = 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af, Atten = 95%, Lag = 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.32' @ 13.59 hrs Surf.Area = 879 sf Storage = 260 cf

Plug-Flow detention time = 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time = 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 1.2

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P134: BIO

Inflow Area = 0.103 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.26 cfs @ 12.04 hrs, Volume= 0.018 af
 Outflow = 0.01 cfs @ 13.60 hrs, Volume= 0.018 af, Atten= 95%, Lag= 93.7 min
 Primary = 0.01 cfs @ 13.60 hrs, Volume= 0.018 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.60 hrs Surf.Area= 1,127 sf Storage= 334 cf

Plug-Flow detention time= 220.4 min calculated for 0.018 af (100% of inflow)
 Center-of-Mass det. time= 220.3 min (986.5 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,225 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	950	0	0
1,687.00	1,500	1,225	1,225

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.60 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 1.2L: Sub 1.2 Res

Inflow Area = 0.264 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.03 cfs @ 13.60 hrs, Volume= 0.047 af
 Primary = 0.03 cfs @ 13.60 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 1.2

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 8

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 132: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 133: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 134: 4500

Runoff Area=4,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.43 cfs 0.034 af

Pond 133P: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P132: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P134: BIO

Peak Elev=1,686.62' Storage=694 cf Inflow=0.43 cfs 0.034 af
Outflow=0.03 cfs 0.034 af

Link 1.2L: Sub 1.2 Res

Inflow=0.08 cfs 0.088 af
Primary=0.08 cfs 0.088 af

**Total Runoff Area = 0.264 ac Runoff Volume = 0.088 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.264 ac**

Summary for Subcatchment 132: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 133: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 134: 4500

Runoff = 0.43 cfs @ 12.04 hrs, Volume= 0.034 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
3,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,500	98	Weighted Average
4,500		100.00% Impervious Area

08077_Sub 1.2

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 10

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

Summary for Pond 133P: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume = 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af, Atten = 93%, Lag = 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.62' @ 13.15 hrs Surf.Area = 1,018 sf Storage = 538 cf

Plug-Flow detention time = 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time = 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.02 cfs @ 13.15 hrs HW = 1,686.62' (Free Discharge)
 1 = **Orifice/Grate** (Weir Controls 0.01 cfs @ 0.43 fps)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P132: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume = 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af, Atten = 93%, Lag = 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.62' @ 13.15 hrs Surf.Area = 1,018 sf Storage = 538 cf

Plug-Flow detention time = 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time = 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 1.2

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 11

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P134: BIO

Inflow Area = 0.103 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.43 cfs @ 12.04 hrs, Volume= 0.034 af
 Outflow = 0.03 cfs @ 13.23 hrs, Volume= 0.034 af, Atten= 93%, Lag= 71.6 min
 Primary = 0.03 cfs @ 13.23 hrs, Volume= 0.034 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.23 hrs Surf.Area= 1,290 sf Storage= 694 cf

Plug-Flow detention time= 406.6 min calculated for 0.034 af (100% of inflow)
 Center-of-Mass det. time= 406.7 min (1,158.9 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,225 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	950	0	0
1,687.00	1,500	1,225	1,225

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.03 cfs @ 13.23 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.45 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 1.2L: Sub 1.2 Res

Inflow Area = 0.264 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.08 cfs @ 13.18 hrs, Volume= 0.088 af
 Primary = 0.08 cfs @ 13.18 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 1.2

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 12

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 132: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 133: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 134: 4500

Runoff Area=4,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.68 cfs 0.063 af

Pond 133P: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P132: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P134: BIO

Peak Elev=1,686.77' Storage=900 cf Inflow=0.68 cfs 0.063 af
Outflow=0.39 cfs 0.063 af

Link 1.2L: Sub 1.2 Res

Inflow=1.04 cfs 0.162 af
Primary=1.04 cfs 0.162 af

Total Runoff Area = 0.264 ac Runoff Volume = 0.162 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.264 ac

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 13

Summary for Subcatchment 132: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 133: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 134: 4500

Runoff = 0.68 cfs @ 12.04 hrs, Volume= 0.063 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
3,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,500	98	Weighted Average
4,500		100.00% Impervious Area

08077_Sub 1.2

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 14

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

Summary for Pond 133P: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume = 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af, Atten = 38%, Lag = 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.76' @ 12.14 hrs Surf.Area = 1,084 sf Storage = 683 cf

Plug-Flow detention time = 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time = 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.32 cfs @ 12.14 hrs HW = 1,686.75' (Free Discharge)
 1 = **Orifice/Grate** (Weir Controls 0.31 cfs @ 1.29 fps)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P132: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume = 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af, Atten = 38%, Lag = 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.76' @ 12.14 hrs Surf.Area = 1,084 sf Storage = 683 cf

Plug-Flow detention time = 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time = 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 1.2

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 15

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P134: BIO

Inflow Area = 0.103 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.68 cfs @ 12.04 hrs, Volume= 0.063 af
 Outflow = 0.39 cfs @ 12.15 hrs, Volume= 0.063 af, Atten= 43%, Lag= 6.9 min
 Primary = 0.39 cfs @ 12.15 hrs, Volume= 0.063 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.77' @ 12.15 hrs Surf.Area= 1,376 sf Storage= 900 cf

Plug-Flow detention time= 298.6 min calculated for 0.063 af (100% of inflow)
 Center-of-Mass det. time= 298.5 min (1,040.8 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,225 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	950	0	0
1,687.00	1,500	1,225	1,225

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.39 cfs @ 12.15 hrs HW=1,686.77' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.37 cfs @ 1.36 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

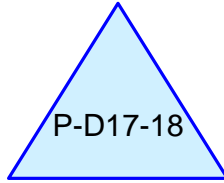
Summary for Link 1.2L: Sub 1.2 Res

Inflow Area = 0.264 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.04 cfs @ 12.14 hrs, Volume= 0.162 af
 Primary = 1.04 cfs @ 12.14 hrs, Volume= 0.162 af, Atten= 0%, Lag= 0.0 min

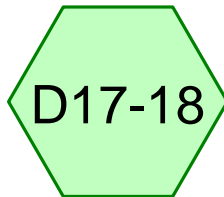
Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



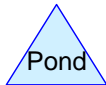
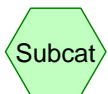
(new Link)



BIO



6500



Routing Diagram for 08077_Sub 1.3

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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.046	98	Driveway, extra imperv., HSG C (D17-18)
0.103	98	Roofs, HSG C (D17-18)
0.149	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.149	HSG C	D17-18
0.000	HSG D	
0.000	Other	
0.149		TOTAL AREA

08077_Sub 1.3

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment D17-18: 6500

Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.37 cfs 0.027 af

Pond P-D17-18: BIO

Peak Elev=1,686.38' Storage=514 cf Inflow=0.37 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Link 1.3L: (new Link)

Inflow=0.02 cfs 0.027 af
Primary=0.02 cfs 0.027 af

Total Runoff Area = 0.149 ac Runoff Volume = 0.027 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.149 ac

08077_Sub 1.3

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 5

Summary for Subcatchment D17-18: 6500

Runoff = 0.37 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Pond P-D17-18: BIO

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.37 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.91 hrs, Volume= 0.027 af, Atten= 96%, Lag= 112.4 min
 Primary = 0.02 cfs @ 13.91 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.38' @ 13.91 hrs Surf.Area= 1,432 sf Storage= 514 cf

Plug-Flow detention time= 276.6 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 276.6 min (1,042.8 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.91 hrs HW=1,686.38' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 1.3L: (new Link)

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.02 cfs @ 13.91 hrs, Volume = 0.027 af
Primary = 0.02 cfs @ 13.91 hrs, Volume = 0.027 af, Atten = 0%, Lag = 0.0 min

Primary outflow = Inflow, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs

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NY-Windham 24-hr S1 2-yr 2-yr Local Rainfall=2.83"

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Page 7

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment D17-18: 6500

Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=2.60"
Tc=6.0 min CN=98 Runoff=0.46 cfs 0.032 af

Pond P-D17-18: BIO

Peak Elev=1,686.49' Storage=671 cf Inflow=0.46 cfs 0.032 af
Outflow=0.02 cfs 0.032 af

Link 1.3L: (new Link)

Inflow=0.02 cfs 0.032 af
Primary=0.02 cfs 0.032 af

Total Runoff Area = 0.149 ac Runoff Volume = 0.032 af Average Runoff Depth = 2.60"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.149 ac

Summary for Subcatchment D17-18: 6500

Runoff = 0.46 cfs @ 12.04 hrs, Volume= 0.032 af, Depth= 2.60"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 2-yr 2-yr Local Rainfall=2.83"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Pond P-D17-18: BIO

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 2.60" for 2-yr Local event
 Inflow = 0.46 cfs @ 12.04 hrs, Volume= 0.032 af
 Outflow = 0.02 cfs @ 14.32 hrs, Volume= 0.032 af, Atten= 96%, Lag= 136.6 min
 Primary = 0.02 cfs @ 14.32 hrs, Volume= 0.032 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.49' @ 14.32 hrs Surf.Area= 1,476 sf Storage= 671 cf

Plug-Flow detention time= 356.9 min calculated for 0.032 af (100% of inflow)
 Center-of-Mass det. time= 357.0 min (1,118.1 - 761.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 14.32 hrs HW=1,686.49' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 1.3L: (new Link)

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 2.60" for 2-yr Local event
Inflow = 0.02 cfs @ 14.32 hrs, Volume= 0.032 af
Primary = 0.02 cfs @ 14.32 hrs, Volume= 0.032 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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Type II 24-hr 10-Year Rainfall=5.00"

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Page 10

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment D17-18: 6500

Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=4.76"
Tc=6.0 min CN=98 Runoff=1.03 cfs 0.059 af

Pond P-D17-18: BIO

Peak Elev=1,686.77' Storage=1,105 cf Inflow=1.03 cfs 0.059 af
Outflow=0.38 cfs 0.059 af

Link 1.3L: (new Link)

Inflow=0.38 cfs 0.059 af
Primary=0.38 cfs 0.059 af

Total Runoff Area = 0.149 ac Runoff Volume = 0.059 af Average Runoff Depth = 4.76"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.149 ac

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Type II 24-hr 10-Year Rainfall=5.00"

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Page 11

Summary for Subcatchment D17-18: 6500

Runoff = 1.03 cfs @ 11.96 hrs, Volume= 0.059 af, Depth= 4.76"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 Type II 24-hr 10-Year Rainfall=5.00"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Pond P-D17-18: BIO

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-Year event
 Inflow = 1.03 cfs @ 11.96 hrs, Volume= 0.059 af
 Outflow = 0.38 cfs @ 12.09 hrs, Volume= 0.059 af, Atten= 63%, Lag= 7.9 min
 Primary = 0.38 cfs @ 12.09 hrs, Volume= 0.059 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.77' @ 12.09 hrs Surf.Area= 1,593 sf Storage= 1,105 cf

Plug-Flow detention time= 331.1 min calculated for 0.059 af (100% of inflow)
 Center-of-Mass det. time= 331.0 min (1,074.9 - 743.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.38 cfs @ 12.09 hrs HW=1,686.77' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.36 cfs @ 1.34 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 1.3L: (new Link)

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 4.76" for 10-Year event
Inflow = 0.38 cfs @ 12.09 hrs, Volume= 0.059 af
Primary = 0.38 cfs @ 12.09 hrs, Volume= 0.059 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 13

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment D17-18: 6500

Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.62 cfs 0.050 af

Pond P-D17-18: BIO

Peak Elev=1,686.66' Storage=933 cf Inflow=0.62 cfs 0.050 af
Outflow=0.10 cfs 0.050 af

Link 1.3L: (new Link)

Inflow=0.10 cfs 0.050 af
Primary=0.10 cfs 0.050 af

Total Runoff Area = 0.149 ac Runoff Volume = 0.050 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.149 ac

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 14

Summary for Subcatchment D17-18: 6500

Runoff = 0.62 cfs @ 12.04 hrs, Volume= 0.050 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Pond P-D17-18: BIO

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.62 cfs @ 12.04 hrs, Volume= 0.050 af
 Outflow = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af, Atten= 85%, Lag= 33.0 min
 Primary = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.66' @ 12.59 hrs Surf.Area= 1,548 sf Storage= 933 cf

Plug-Flow detention time= 390.7 min calculated for 0.050 af (100% of inflow)
 Center-of-Mass det. time= 390.6 min (1,142.8 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.09 cfs @ 12.59 hrs HW=1,686.66' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.08 cfs @ 0.81 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 1.3L: (new Link)

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af
Primary = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 16

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment D17-18: 6500

Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.98 cfs 0.092 af

Pond P-D17-18: BIO

Peak Elev=1,686.87' Storage=1,265 cf Inflow=0.98 cfs 0.092 af
Outflow=0.51 cfs 0.092 af

Link 1.3L: (new Link)

Inflow=0.51 cfs 0.092 af
Primary=0.51 cfs 0.092 af

Total Runoff Area = 0.149 ac Runoff Volume = 0.092 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.149 ac

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 17

Summary for Subcatchment D17-18: 6500

Runoff = 0.98 cfs @ 12.04 hrs, Volume= 0.092 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Pond P-D17-18: BIO

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event

Inflow = 0.98 cfs @ 12.04 hrs, Volume= 0.092 af

Outflow = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af, Atten= 48%, Lag= 7.7 min

Primary = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.87' @ 12.17 hrs Surf.Area= 1,634 sf Storage= 1,265 cf

Plug-Flow detention time= 278.6 min calculated for 0.092 af (100% of inflow)

Center-of-Mass det. time= 278.4 min (1,020.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.51 cfs @ 12.17 hrs HW=1,686.87' (Free Discharge)

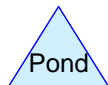
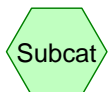
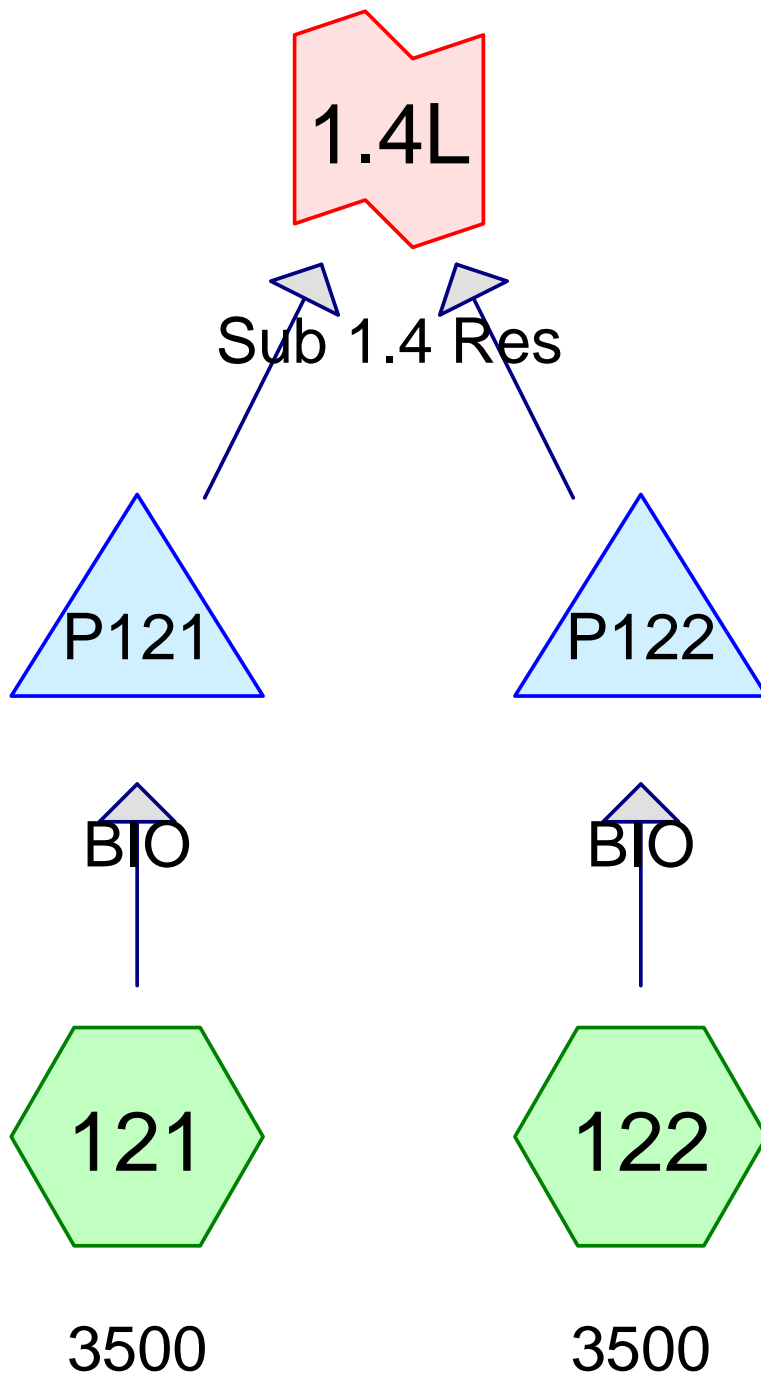
1=Orifice/Grate (Orifice Controls 0.49 cfs @ 2.49 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 1.3L: (new Link)

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af
Primary = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.046	98	Driveway, extra imperv., HSG C (121, 122)
0.115	98	Roofs, HSG C (121, 122)
0.161	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.161	HSG C	121, 122
0.000	HSG D	
0.000	Other	
0.161		TOTAL AREA

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 121: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 122: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Pond P121: BIO

Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P122: BIO

Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Link 1.4L: Sub 1.4 Res

Inflow=0.02 cfs 0.029 af
Primary=0.02 cfs 0.029 af

Total Runoff Area = 0.161 ac Runoff Volume = 0.029 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.161 ac

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 5

Summary for Subcatchment 121: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 122: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P121: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 6

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P122: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 1.4L: Sub 1.4 Res

Inflow Area = 0.161 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.02 cfs @ 13.59 hrs, Volume= 0.029 af
Primary = 0.02 cfs @ 13.59 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 1.4

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 8

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 121: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 122: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Pond P121: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P122: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Link 1.4L: Sub 1.4 Res

Inflow=0.05 cfs 0.054 af
Primary=0.05 cfs 0.054 af

Total Runoff Area = 0.161 ac Runoff Volume = 0.054 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.161 ac

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 9

Summary for Subcatchment 121: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 122: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P121: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 10

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P122: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 1.4L: Sub 1.4 Res

Inflow Area = 0.161 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.05 cfs @ 13.15 hrs, Volume= 0.054 af
Primary = 0.05 cfs @ 13.15 hrs, Volume= 0.054 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 1.4

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 12

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 121: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 122: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Pond P121: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P122: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Link 1.4L: Sub 1.4 Res

Inflow=0.66 cfs 0.099 af
Primary=0.66 cfs 0.099 af

Total Runoff Area = 0.161 ac Runoff Volume = 0.099 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.161 ac

08077_Sub 1.4

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 13

Summary for Subcatchment 121: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 122: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P121: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

08077_Sub 1.4

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 14

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P122: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

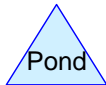
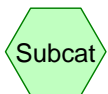
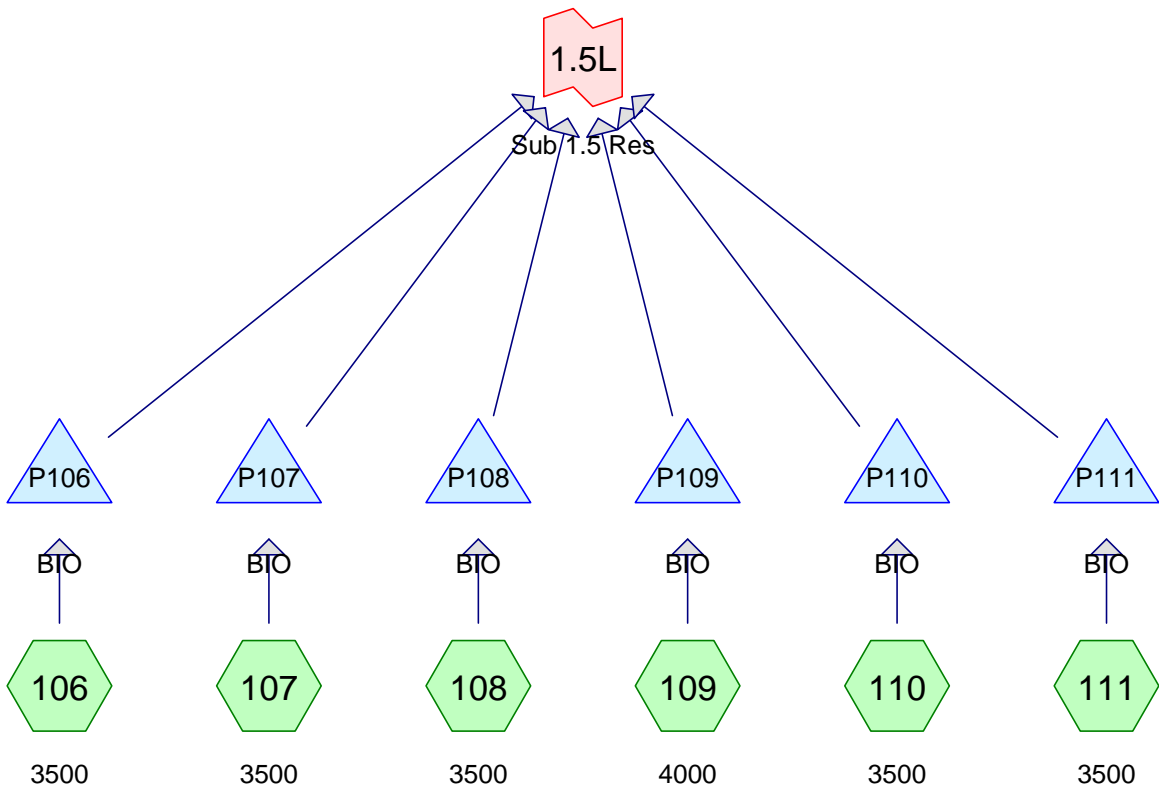
1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 1.4L: Sub 1.4 Res

Inflow Area = 0.161 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.66 cfs @ 12.14 hrs, Volume= 0.099 af
Primary = 0.66 cfs @ 12.14 hrs, Volume= 0.099 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 1.5
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.138	98	Driveway, extra imperv., HSG C (106, 107, 108, 109, 110, 111)
0.356	98	Roofs, HSG C (106, 107, 108, 109, 110, 111)
0.494	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.494	HSG C	106, 107, 108, 109, 110, 111
0.000	HSG D	
0.000	Other	
0.494		TOTAL AREA

08077_Sub 1.5

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 106: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 107: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 108: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 109: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.23 cfs 0.016 af
Subcatchment 110: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 111: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Pond P106: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P107: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P108: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P109: BIO	Peak Elev=1,686.34' Storage=300 cf Inflow=0.23 cfs 0.016 af Outflow=0.01 cfs 0.016 af
Pond P110: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P111: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Link 1.5L: Sub 1.5 Res	Inflow=0.06 cfs 0.088 af Primary=0.06 cfs 0.088 af

Total Runoff Area = 0.494 ac Runoff Volume = 0.088 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.494 ac

Summary for Subcatchment 106: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 107: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 108: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

08077_Sub 1.5

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 6

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

Summary for Subcatchment 109: 4000

Runoff = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 110: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 111: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

08077_Sub 1.5

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P106: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume = 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af, Atten = 95%, Lag = 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.32' @ 13.59 hrs Surf.Area = 879 sf Storage = 260 cf

Plug-Flow detention time = 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time = 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.01 cfs @ 13.59 hrs HW = 1,686.32' (Free Discharge)

- 1 = **Orifice/Grate** (Controls 0.00 cfs)
- 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P107: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume = 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af, Atten = 95%, Lag = 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.32' @ 13.59 hrs Surf.Area = 879 sf Storage = 260 cf

Plug-Flow detention time = 221.5 min calculated for 0.014 af (100% of inflow)

08077_Sub 1.5

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 8

Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P108: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P109: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af
 Outflow = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af, Atten= 95%, Lag= 98.4 min
 Primary = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.34' @ 13.68 hrs Surf.Area= 967 sf Storage= 300 cf

Plug-Flow detention time= 232.2 min calculated for 0.016 af (100% of inflow)
 Center-of-Mass det. time= 232.1 min (998.3 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.68 hrs HW=1,686.33' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P110: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 10

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

1=Orifice/Grate (Controls 0.00 cfs)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P111: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)

Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

1=Orifice/Grate (Controls 0.00 cfs)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 1.5L: Sub 1.5 Res

Inflow Area = 0.494 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.06 cfs @ 13.61 hrs, Volume= 0.088 af
 Primary = 0.06 cfs @ 13.61 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 11

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 106: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 107: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 108: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 109: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.38 cfs 0.031 af
Subcatchment 110: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 111: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Pond P106: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P107: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P108: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P109: BIO	Peak Elev=1,686.62' Storage=599 cf Inflow=0.38 cfs 0.031 af Outflow=0.03 cfs 0.031 af
Pond P110: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P111: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Link 1.5L: Sub 1.5 Res	Inflow=0.15 cfs 0.165 af Primary=0.15 cfs 0.165 af

**Total Runoff Area = 0.494 ac Runoff Volume = 0.165 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.494 ac**

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 12

Summary for Subcatchment 106: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 107: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 108: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 13

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

Summary for Subcatchment 109: 4000

Runoff = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 110: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 111: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 14

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P106: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P107: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 15

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P108: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P109: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af
 Outflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 91%, Lag= 49.3 min
 Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 12.86 hrs Surf.Area= 1,091 sf Storage= 599 cf

Plug-Flow detention time= 400.4 min calculated for 0.031 af (100% of inflow)
 Center-of-Mass det. time= 400.5 min (1,152.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.03 cfs @ 12.86 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.02 cfs @ 0.52 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P110: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

08077_Sub 1.5

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 17

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P111: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 1.5L: Sub 1.5 Res

Inflow Area = 0.494 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.15 cfs @ 13.10 hrs, Volume= 0.165 af
 Primary = 0.15 cfs @ 13.10 hrs, Volume= 0.165 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 1.5

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 18

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 106: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 107: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 108: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 109: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.60 cfs 0.056 af
Subcatchment 110: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 111: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Pond P106: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P107: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P108: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P109: BIO	Peak Elev=1,686.77' Storage=767 cf Inflow=0.60 cfs 0.056 af Outflow=0.39 cfs 0.056 af
Pond P110: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P111: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Link 1.5L: Sub 1.5 Res	Inflow=2.03 cfs 0.303 af Primary=2.03 cfs 0.303 af

Total Runoff Area = 0.494 ac Runoff Volume = 0.303 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.494 ac

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 19

Summary for Subcatchment 106: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 107: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 108: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

08077_Sub 1.5

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 20

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

Summary for Subcatchment 109: 4000

Runoff = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 110: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 111: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 21

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P106: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)
 1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)
 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P107: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

08077_Sub 1.5

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 22

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P108: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P109: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af
 Outflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 36%, Lag= 5.3 min
 Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.77' @ 12.13 hrs Surf.Area= 1,154 sf Storage= 767 cf

Plug-Flow detention time= 291.5 min calculated for 0.056 af (100% of inflow)
 Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.38 cfs @ 12.13 hrs HW=1,686.77' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.37 cfs @ 1.36 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P110: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

08077_Sub 1.5

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 24

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P111: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

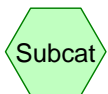
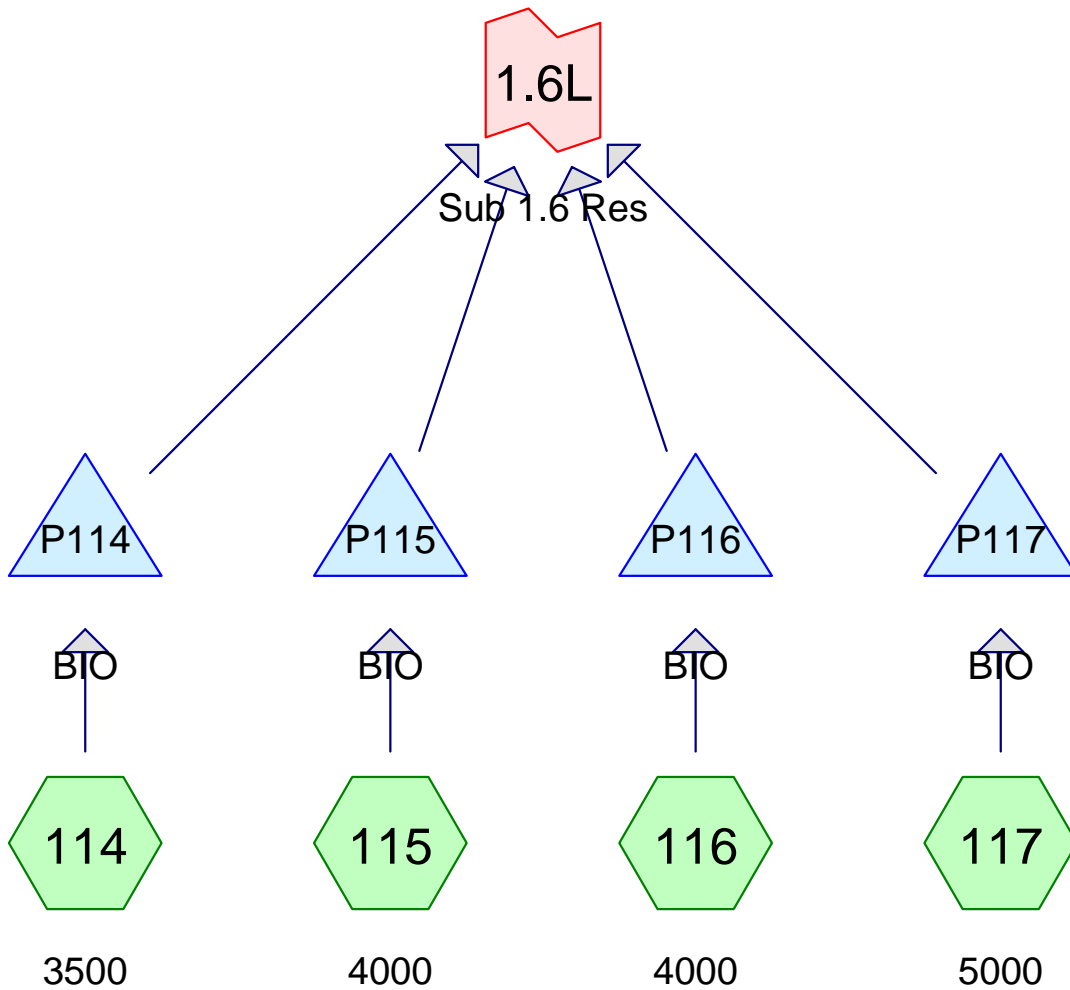
1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 1.5L: Sub 1.5 Res

Inflow Area = 0.494 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 2.03 cfs @ 12.14 hrs, Volume= 0.303 af
 Primary = 2.03 cfs @ 12.14 hrs, Volume= 0.303 af, Atten= 0%, Lag= 0.0 min

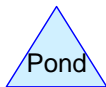
Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Subcat



Reach



Pond



Link

Routing Diagram for 08077_Sub 1.6
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.092	98	Driveway, extra imperv., HSG C (114, 115, 116, 117)
0.287	98	Roofs, HSG C (114, 115, 116, 117)
0.379	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.379	HSG C	114, 115, 116, 117
0.000	HSG D	
0.000	Other	
0.379		TOTAL AREA

08077_Sub 1.6

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 114: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 115: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.23 cfs 0.016 af
Subcatchment 116: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.23 cfs 0.016 af
Subcatchment 117: 5000	Runoff Area=5,000 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.29 cfs 0.020 af
Pond P114: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P115: BIO	Peak Elev=1,686.34' Storage=300 cf Inflow=0.23 cfs 0.016 af Outflow=0.01 cfs 0.016 af
Pond P116: BIO	Peak Elev=1,686.34' Storage=300 cf Inflow=0.23 cfs 0.016 af Outflow=0.01 cfs 0.016 af
Pond P117: BIO	Peak Elev=1,686.35' Storage=386 cf Inflow=0.29 cfs 0.020 af Outflow=0.01 cfs 0.020 af
Link 1.6L: Sub 1.6 Res	Inflow=0.05 cfs 0.068 af Primary=0.05 cfs 0.068 af

Total Runoff Area = 0.379 ac Runoff Volume = 0.068 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.379 ac

08077_Sub 1.6

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 5

Summary for Subcatchment 114: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 115: 4000

Runoff = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 116: 4000

Runoff = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 117: 5000

Runoff = 0.29 cfs @ 12.04 hrs, Volume= 0.020 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,000	98	Weighted Average
5,000		100.00% Impervious Area

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

Summary for Pond P114: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P115: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af
 Outflow = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af, Atten= 95%, Lag= 98.4 min
 Primary = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.34' @ 13.68 hrs Surf.Area= 967 sf Storage= 300 cf

Plug-Flow detention time= 232.2 min calculated for 0.016 af (100% of inflow)
 Center-of-Mass det. time= 232.1 min (998.3 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.68 hrs HW=1,686.33' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P116: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af
 Outflow = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af, Atten= 95%, Lag= 98.4 min
 Primary = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.34' @ 13.68 hrs Surf.Area= 967 sf Storage= 300 cf

Plug-Flow detention time= 232.2 min calculated for 0.016 af (100% of inflow)
 Center-of-Mass det. time= 232.1 min (998.3 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 8

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.68 hrs HW=1,686.33' (Free Discharge)

1=Orifice/Grate (Controls 0.00 cfs)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P117: BIO

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.29 cfs @ 12.04 hrs, Volume= 0.020 af
 Outflow = 0.01 cfs @ 13.71 hrs, Volume= 0.020 af, Atten= 95%, Lag= 100.1 min
 Primary = 0.01 cfs @ 13.71 hrs, Volume= 0.020 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.35' @ 13.71 hrs Surf.Area= 1,194 sf Storage= 386 cf

Plug-Flow detention time= 247.7 min calculated for 0.020 af (100% of inflow)

Center-of-Mass det. time= 247.7 min (1,013.9 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,025 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,025	0	0
1,688.00	2,000	3,025	3,025

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.71 hrs HW=1,686.35' (Free Discharge)

1=Orifice/Grate (Controls 0.00 cfs)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 1.6L: Sub 1.6 Res

Inflow Area = 0.379 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.05 cfs @ 13.66 hrs, Volume= 0.068 af
 Primary = 0.05 cfs @ 13.66 hrs, Volume= 0.068 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 9

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 114: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 115: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.38 cfs 0.031 af
Subcatchment 116: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.38 cfs 0.031 af
Subcatchment 117: 5000	Runoff Area=5,000 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.48 cfs 0.038 af
Pond P114: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P115: BIO	Peak Elev=1,686.62' Storage=599 cf Inflow=0.38 cfs 0.031 af Outflow=0.03 cfs 0.031 af
Pond P116: BIO	Peak Elev=1,686.62' Storage=599 cf Inflow=0.38 cfs 0.031 af Outflow=0.03 cfs 0.031 af
Pond P117: BIO	Peak Elev=1,686.63' Storage=747 cf Inflow=0.48 cfs 0.038 af Outflow=0.05 cfs 0.038 af
Link 1.6L: Sub 1.6 Res	Inflow=0.13 cfs 0.126 af Primary=0.13 cfs 0.126 af

Total Runoff Area = 0.379 ac Runoff Volume = 0.126 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.379 ac

Summary for Subcatchment 114: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 115: 4000

Runoff = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 116: 4000

Runoff = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 11

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

Summary for Subcatchment 117: 5000

Runoff = 0.48 cfs @ 12.04 hrs, Volume= 0.038 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,000	98	Weighted Average
5,000		100.00% Impervious Area

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

Summary for Pond P114: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

- 1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P115: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af
 Outflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 91%, Lag= 49.3 min
 Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 12.86 hrs Surf.Area= 1,091 sf Storage= 599 cf

Plug-Flow detention time= 400.4 min calculated for 0.031 af (100% of inflow)
 Center-of-Mass det. time= 400.5 min (1,152.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.03 cfs @ 12.86 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.02 cfs @ 0.52 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P116: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af
 Outflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 91%, Lag= 49.3 min
 Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 12.86 hrs Surf.Area= 1,091 sf Storage= 599 cf

Plug-Flow detention time= 400.4 min calculated for 0.031 af (100% of inflow)
 Center-of-Mass det. time= 400.5 min (1,152.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 13

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.03 cfs @ 12.86 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.02 cfs @ 0.52 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P117: BIO

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.48 cfs @ 12.04 hrs, Volume= 0.038 af
 Outflow = 0.05 cfs @ 12.73 hrs, Volume= 0.038 af, Atten= 90%, Lag= 41.7 min
 Primary = 0.05 cfs @ 12.73 hrs, Volume= 0.038 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.63' @ 12.73 hrs Surf.Area= 1,334 sf Storage= 747 cf

Plug-Flow detention time= 401.3 min calculated for 0.038 af (100% of inflow)

Center-of-Mass det. time= 401.4 min (1,153.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,025 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,025	0	0
1,688.00	2,000	3,025	3,025

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.05 cfs @ 12.73 hrs HW=1,686.63' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.03 cfs @ 0.59 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 1.6L: Sub 1.6 Res

Inflow Area = 0.379 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.13 cfs @ 12.89 hrs, Volume= 0.126 af
 Primary = 0.13 cfs @ 12.89 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 14

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 114: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 115: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.60 cfs 0.056 af
Subcatchment 116: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.60 cfs 0.056 af
Subcatchment 117: 5000	Runoff Area=5,000 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.75 cfs 0.071 af
Pond P114: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P115: BIO	Peak Elev=1,686.77' Storage=767 cf Inflow=0.60 cfs 0.056 af Outflow=0.39 cfs 0.056 af
Pond P116: BIO	Peak Elev=1,686.77' Storage=767 cf Inflow=0.60 cfs 0.056 af Outflow=0.39 cfs 0.056 af
Pond P117: BIO	Peak Elev=1,686.80' Storage=978 cf Inflow=0.75 cfs 0.071 af Outflow=0.44 cfs 0.070 af
Link 1.6L: Sub 1.6 Res	Inflow=1.54 cfs 0.233 af Primary=1.54 cfs 0.233 af

Total Runoff Area = 0.379 ac Runoff Volume = 0.233 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.379 ac

08077_Sub 1.6

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 15

Summary for Subcatchment 114: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 115: 4000

Runoff = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 116: 4000

Runoff = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 16

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

Summary for Subcatchment 117: 5000

Runoff = 0.75 cfs @ 12.04 hrs, Volume= 0.071 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,000	98	Weighted Average
5,000		100.00% Impervious Area

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

Summary for Pond P114: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

- 1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

08077_Sub 1.6

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 17

Summary for Pond P115: BIO

Inflow Area = 0.092 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af
 Outflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 36%, Lag= 5.3 min
 Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.77' @ 12.13 hrs Surf.Area= 1,154 sf Storage= 767 cf

Plug-Flow detention time= 291.5 min calculated for 0.056 af (100% of inflow)
 Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.38 cfs @ 12.13 hrs HW=1,686.77' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.37 cfs @ 1.36 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P116: BIO

Inflow Area = 0.092 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af
 Outflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 36%, Lag= 5.3 min
 Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.77' @ 12.13 hrs Surf.Area= 1,154 sf Storage= 767 cf

Plug-Flow detention time= 291.5 min calculated for 0.056 af (100% of inflow)
 Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 18

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.38 cfs @ 12.13 hrs HW=1,686.77' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.37 cfs @ 1.36 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P117: BIO

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.75 cfs @ 12.04 hrs, Volume= 0.071 af
 Outflow = 0.44 cfs @ 12.15 hrs, Volume= 0.070 af, Atten= 42%, Lag= 6.5 min
 Primary = 0.44 cfs @ 12.15 hrs, Volume= 0.070 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.80' @ 12.15 hrs Surf.Area= 1,416 sf Storage= 978 cf

Plug-Flow detention time= 291.5 min calculated for 0.070 af (100% of inflow)

Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,025 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,025	0	0
1,688.00	2,000	3,025	3,025

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.44 cfs @ 12.15 hrs HW=1,686.80' (Free Discharge)

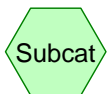
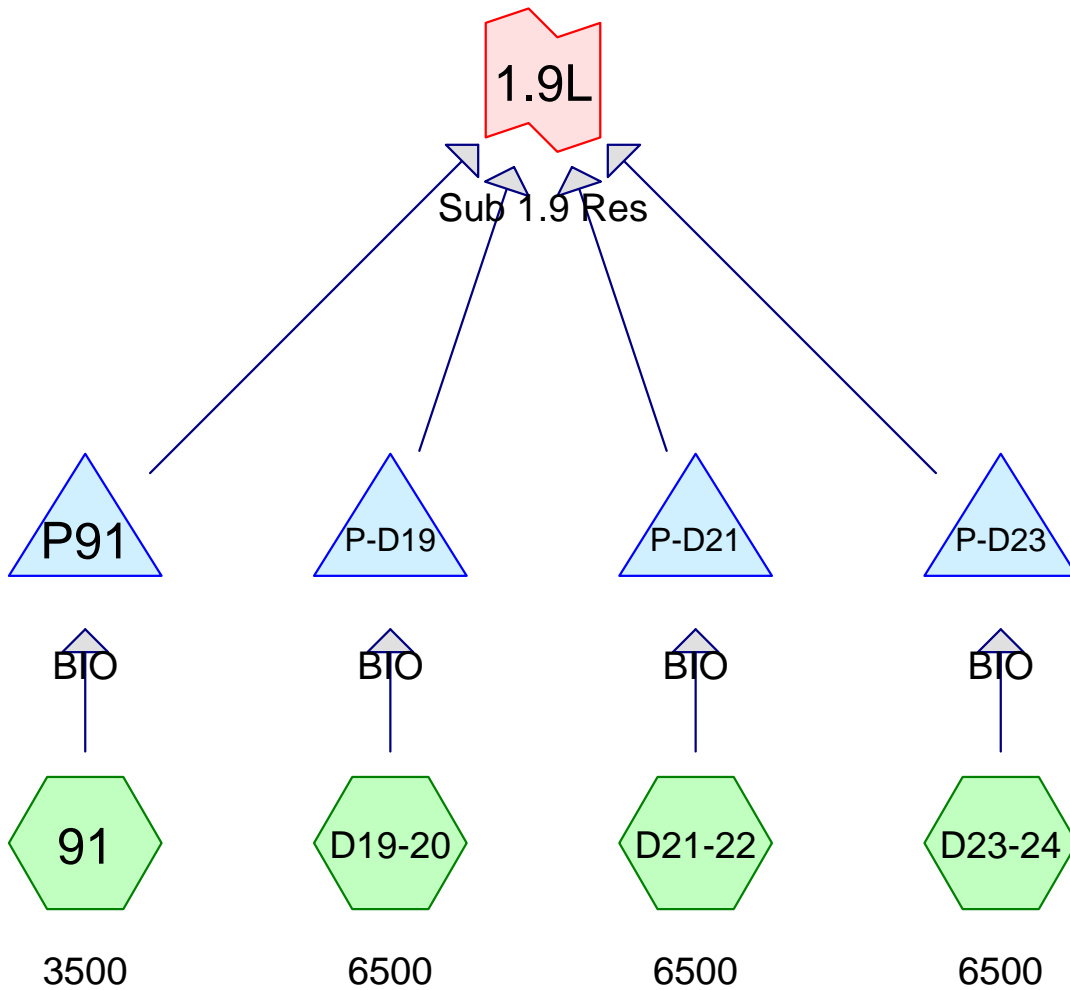
1=Orifice/Grate (Orifice Controls 0.42 cfs @ 2.16 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 1.6L: Sub 1.6 Res

Inflow Area = 0.379 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.54 cfs @ 12.13 hrs, Volume= 0.233 af
 Primary = 1.54 cfs @ 12.13 hrs, Volume= 0.233 af, Atten= 0%, Lag= 0.0 min

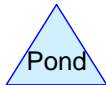
Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Subcat



Reach



Pond



Link

Routing Diagram for 08077_Sub 1.9
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.161	98	Driveway, extra imperv., HSG C (91, D19-20, D21-22, D23-24)
0.367	98	Roofs, HSG C (91, D19-20, D21-22, D23-24)
0.528	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.528	HSG C	91, D19-20, D21-22, D23-24
0.000	HSG D	
0.000	Other	
0.528		TOTAL AREA

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 91: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment D19-20: 6500	Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.37 cfs 0.027 af
Subcatchment D21-22: 6500	Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.37 cfs 0.027 af
Subcatchment D23-24: 6500	Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.37 cfs 0.027 af
Pond P-D19: BIO	Peak Elev=1,686.38' Storage=514 cf Inflow=0.37 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P-D21: BIO	Peak Elev=1,686.38' Storage=514 cf Inflow=0.37 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P-D23: BIO	Peak Elev=1,686.38' Storage=514 cf Inflow=0.37 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P91: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Link 1.9L: Sub 1.9 Res	Inflow=0.06 cfs 0.094 af Primary=0.06 cfs 0.094 af

Total Runoff Area = 0.528 ac Runoff Volume = 0.094 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.528 ac

08077_Sub 1.9

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 5

Summary for Subcatchment 91: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment D19-20: 6500

Runoff = 0.37 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Subcatchment D21-22: 6500

Runoff = 0.37 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Subcatchment D23-24: 6500

Runoff = 0.37 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Pond P-D19: BIO

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.37 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.91 hrs, Volume= 0.027 af, Atten= 96%, Lag= 112.4 min
 Primary = 0.02 cfs @ 13.91 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.38' @ 13.91 hrs Surf.Area= 1,432 sf Storage= 514 cf

Plug-Flow detention time= 276.6 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 276.6 min (1,042.8 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.91 hrs HW=1,686.38' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P-D21: BIO

Inflow Area = 0.149 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.37 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.91 hrs, Volume= 0.027 af, Atten= 96%, Lag= 112.4 min
 Primary = 0.02 cfs @ 13.91 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.38' @ 13.91 hrs Surf.Area= 1,432 sf Storage= 514 cf

Plug-Flow detention time= 276.6 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 276.6 min (1,042.8 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.91 hrs HW=1,686.38' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P-D23: BIO

Inflow Area = 0.149 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.37 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.91 hrs, Volume= 0.027 af, Atten= 96%, Lag= 112.4 min
 Primary = 0.02 cfs @ 13.91 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.38' @ 13.91 hrs Surf.Area= 1,432 sf Storage= 514 cf

Plug-Flow detention time= 276.6 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 276.6 min (1,042.8 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 8

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.91 hrs HW=1,686.38' (Free Discharge)

↑1=**Orifice/Grate** (Controls 0.00 cfs)

↓2=**Exfiltration** (Exfiltration Controls 0.02 cfs)

Summary for Pond P91: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)

Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

↑1=**Orifice/Grate** (Controls 0.00 cfs)

↓2=**Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Link 1.9L: Sub 1.9 Res

Inflow Area = 0.528 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.06 cfs @ 13.82 hrs, Volume= 0.094 af
 Primary = 0.06 cfs @ 13.82 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 9

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 91: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment D19-20: 6500	Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.62 cfs 0.050 af
Subcatchment D21-22: 6500	Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.62 cfs 0.050 af
Subcatchment D23-24: 6500	Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.62 cfs 0.050 af
Pond P-D19: BIO	Peak Elev=1,686.66' Storage=933 cf Inflow=0.62 cfs 0.050 af Outflow=0.10 cfs 0.050 af
Pond P-D21: BIO	Peak Elev=1,686.66' Storage=933 cf Inflow=0.62 cfs 0.050 af Outflow=0.10 cfs 0.050 af
Pond P-D23: BIO	Peak Elev=1,686.66' Storage=933 cf Inflow=0.62 cfs 0.050 af Outflow=0.10 cfs 0.050 af
Pond P91: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Link 1.9L: Sub 1.9 Res	Inflow=0.30 cfs 0.176 af Primary=0.30 cfs 0.176 af

Total Runoff Area = 0.528 ac Runoff Volume = 0.176 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.528 ac

08077_Sub 1.9

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 10

Summary for Subcatchment 91: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment D19-20: 6500

Runoff = 0.62 cfs @ 12.04 hrs, Volume= 0.050 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Subcatchment D21-22: 6500

Runoff = 0.62 cfs @ 12.04 hrs, Volume= 0.050 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 11

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

Summary for Subcatchment D23-24: 6500

Runoff = 0.62 cfs @ 12.04 hrs, Volume= 0.050 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Pond P-D19: BIO

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.62 cfs @ 12.04 hrs, Volume= 0.050 af
 Outflow = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af, Atten= 85%, Lag= 33.0 min
 Primary = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.66' @ 12.59 hrs Surf.Area= 1,548 sf Storage= 933 cf

Plug-Flow detention time= 390.7 min calculated for 0.050 af (100% of inflow)
 Center-of-Mass det. time= 390.6 min (1,142.8 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.09 cfs @ 12.59 hrs HW=1,686.66' (Free Discharge)

- 1=Orifice/Grate (Weir Controls 0.08 cfs @ 0.81 fps)
- 2=Exfiltration (Exfiltration Controls 0.02 cfs)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 12

Summary for Pond P-D21: BIO

Inflow Area = 0.149 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.62 cfs @ 12.04 hrs, Volume= 0.050 af
 Outflow = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af, Atten= 85%, Lag= 33.0 min
 Primary = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.66' @ 12.59 hrs Surf.Area= 1,548 sf Storage= 933 cf

Plug-Flow detention time= 390.7 min calculated for 0.050 af (100% of inflow)
 Center-of-Mass det. time= 390.6 min (1,142.8 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.09 cfs @ 12.59 hrs HW=1,686.66' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.08 cfs @ 0.81 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P-D23: BIO

Inflow Area = 0.149 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.62 cfs @ 12.04 hrs, Volume= 0.050 af
 Outflow = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af, Atten= 85%, Lag= 33.0 min
 Primary = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.66' @ 12.59 hrs Surf.Area= 1,548 sf Storage= 933 cf

Plug-Flow detention time= 390.7 min calculated for 0.050 af (100% of inflow)
 Center-of-Mass det. time= 390.6 min (1,142.8 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 13

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.09 cfs @ 12.59 hrs HW=1,686.66' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.08 cfs @ 0.81 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P91: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 1.9L: Sub 1.9 Res

Inflow Area = 0.528 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.30 cfs @ 12.59 hrs, Volume= 0.176 af
 Primary = 0.30 cfs @ 12.59 hrs, Volume= 0.176 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 14

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 91: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment D19-20: 6500	Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.98 cfs 0.092 af
Subcatchment D21-22: 6500	Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.98 cfs 0.092 af
Subcatchment D23-24: 6500	Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.98 cfs 0.092 af
Pond P-D19: BIO	Peak Elev=1,686.87' Storage=1,265 cf Inflow=0.98 cfs 0.092 af Outflow=0.51 cfs 0.092 af
Pond P-D21: BIO	Peak Elev=1,686.87' Storage=1,265 cf Inflow=0.98 cfs 0.092 af Outflow=0.51 cfs 0.092 af
Pond P-D23: BIO	Peak Elev=1,686.87' Storage=1,265 cf Inflow=0.98 cfs 0.092 af Outflow=0.51 cfs 0.092 af
Pond P91: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Link 1.9L: Sub 1.9 Res	Inflow=1.85 cfs 0.324 af Primary=1.85 cfs 0.324 af

Total Runoff Area = 0.528 ac Runoff Volume = 0.324 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.528 ac

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 15

Summary for Subcatchment 91: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment D19-20: 6500

Runoff = 0.98 cfs @ 12.04 hrs, Volume= 0.092 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Subcatchment D21-22: 6500

Runoff = 0.98 cfs @ 12.04 hrs, Volume= 0.092 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 16

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

Summary for Subcatchment D23-24: 6500

Runoff = 0.98 cfs @ 12.04 hrs, Volume= 0.092 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Pond P-D19: BIO

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.98 cfs @ 12.04 hrs, Volume= 0.092 af
 Outflow = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af, Atten= 48%, Lag= 7.7 min
 Primary = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.87' @ 12.17 hrs Surf.Area= 1,634 sf Storage= 1,265 cf

Plug-Flow detention time= 278.6 min calculated for 0.092 af (100% of inflow)
 Center-of-Mass det. time= 278.4 min (1,020.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.51 cfs @ 12.17 hrs HW=1,686.87' (Free Discharge)

- 1 = **Orifice/Grate** (Orifice Controls 0.49 cfs @ 2.49 fps)
- 2 = **Exfiltration** (Exfiltration Controls 0.02 cfs)

Summary for Pond P-D21: BIO

Inflow Area = 0.149 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.98 cfs @ 12.04 hrs, Volume= 0.092 af
 Outflow = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af, Atten= 48%, Lag= 7.7 min
 Primary = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.87' @ 12.17 hrs Surf.Area= 1,634 sf Storage= 1,265 cf

Plug-Flow detention time= 278.6 min calculated for 0.092 af (100% of inflow)
 Center-of-Mass det. time= 278.4 min (1,020.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.51 cfs @ 12.17 hrs HW=1,686.87' (Free Discharge)

1=Orifice/Grate (Orifice Controls 0.49 cfs @ 2.49 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P-D23: BIO

Inflow Area = 0.149 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.98 cfs @ 12.04 hrs, Volume= 0.092 af
 Outflow = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af, Atten= 48%, Lag= 7.7 min
 Primary = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.87' @ 12.17 hrs Surf.Area= 1,634 sf Storage= 1,265 cf

Plug-Flow detention time= 278.6 min calculated for 0.092 af (100% of inflow)
 Center-of-Mass det. time= 278.4 min (1,020.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 18

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.51 cfs @ 12.17 hrs HW=1,686.87' (Free Discharge)

↑1=**Orifice/Grate** (Orifice Controls 0.49 cfs @ 2.49 fps)

↑2=**Exfiltration** (Exfiltration Controls 0.02 cfs)

Summary for Pond P91: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

↑1=**Orifice/Grate** (Weir Controls 0.31 cfs @ 1.29 fps)

↑2=**Exfiltration** (Exfiltration Controls 0.01 cfs)

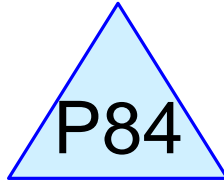
Summary for Link 1.9L: Sub 1.9 Res

Inflow Area = 0.528 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.85 cfs @ 12.15 hrs, Volume= 0.324 af
 Primary = 1.85 cfs @ 12.15 hrs, Volume= 0.324 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



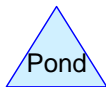
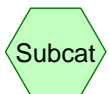
Sub 2.1 Res



BIO



5000



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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.023	98	Driveway, extra imperv., HSG C (84)
0.092	98	Roofs, HSG C (84)
0.115	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.115	HSG C	84
0.000	HSG D	
0.000	Other	
0.115		TOTAL AREA

08077_Sub 2.1

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 84: 5000

Runoff Area=5,000 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.29 cfs 0.020 af

Pond P84: BIO

Peak Elev=1,686.35' Storage=386 cf Inflow=0.29 cfs 0.020 af
Outflow=0.01 cfs 0.020 af

Link 2.1L: Sub 2.1 Res

Inflow=0.01 cfs 0.020 af
Primary=0.01 cfs 0.020 af

Total Runoff Area = 0.115 ac Runoff Volume = 0.020 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.115 ac

Summary for Subcatchment 84: 5000

Runoff = 0.29 cfs @ 12.04 hrs, Volume= 0.020 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,000	98	Weighted Average
5,000		100.00% Impervious Area

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

Summary for Pond P84: BIO

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.29 cfs @ 12.04 hrs, Volume= 0.020 af
 Outflow = 0.01 cfs @ 13.71 hrs, Volume= 0.020 af, Atten= 95%, Lag= 100.1 min
 Primary = 0.01 cfs @ 13.71 hrs, Volume= 0.020 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.35' @ 13.71 hrs Surf.Area= 1,194 sf Storage= 386 cf

Plug-Flow detention time= 247.7 min calculated for 0.020 af (100% of inflow)
 Center-of-Mass det. time= 247.7 min (1,013.9 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,025 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,025	0	0
1,688.00	2,000	3,025	3,025

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.71 hrs HW=1,686.35' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.1L: Sub 2.1 Res

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.71 hrs, Volume= 0.020 af
Primary = 0.01 cfs @ 13.71 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 2.1

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 7

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 84: 5000

Runoff Area=5,000 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.48 cfs 0.038 af

Pond P84: BIO

Peak Elev=1,686.63' Storage=747 cf Inflow=0.48 cfs 0.038 af
Outflow=0.05 cfs 0.038 af

Link 2.1L: Sub 2.1 Res

Inflow=0.05 cfs 0.038 af
Primary=0.05 cfs 0.038 af

Total Runoff Area = 0.115 ac Runoff Volume = 0.038 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.115 ac

Summary for Subcatchment 84: 5000

Runoff = 0.48 cfs @ 12.04 hrs, Volume= 0.038 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,000	98	Weighted Average
5,000		100.00% Impervious Area

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

Summary for Pond P84: BIO

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.48 cfs @ 12.04 hrs, Volume= 0.038 af
 Outflow = 0.05 cfs @ 12.73 hrs, Volume= 0.038 af, Atten= 90%, Lag= 41.7 min
 Primary = 0.05 cfs @ 12.73 hrs, Volume= 0.038 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.63' @ 12.73 hrs Surf.Area= 1,334 sf Storage= 747 cf

Plug-Flow detention time= 401.3 min calculated for 0.038 af (100% of inflow)
 Center-of-Mass det. time= 401.4 min (1,153.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,025 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,025	0	0
1,688.00	2,000	3,025	3,025

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.05 cfs @ 12.73 hrs HW=1,686.63' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.03 cfs @ 0.59 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 2.1L: Sub 2.1 Res

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.05 cfs @ 12.73 hrs, Volume= 0.038 af
Primary = 0.05 cfs @ 12.73 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 10

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 84: 5000

Runoff Area=5,000 sf 100.00% Impervious Runoff Depth=7.37"

Tc=6.0 min CN=98 Runoff=0.75 cfs 0.071 af

Pond P84: BIO

Peak Elev=1,686.80' Storage=978 cf Inflow=0.75 cfs 0.071 af

Outflow=0.44 cfs 0.070 af

Link 2.1L: Sub 2.1 Res

Inflow=0.44 cfs 0.070 af

Primary=0.44 cfs 0.070 af

Total Runoff Area = 0.115 ac Runoff Volume = 0.071 af Average Runoff Depth = 7.37"

0.00% Pervious = 0.000 ac 100.00% Impervious = 0.115 ac

Summary for Subcatchment 84: 5000

Runoff = 0.75 cfs @ 12.04 hrs, Volume= 0.071 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,000	98	Weighted Average
5,000		100.00% Impervious Area

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

Summary for Pond P84: BIO

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.75 cfs @ 12.04 hrs, Volume= 0.071 af
 Outflow = 0.44 cfs @ 12.15 hrs, Volume= 0.070 af, Atten= 42%, Lag= 6.5 min
 Primary = 0.44 cfs @ 12.15 hrs, Volume= 0.070 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.80' @ 12.15 hrs Surf.Area= 1,416 sf Storage= 978 cf

Plug-Flow detention time= 291.5 min calculated for 0.070 af (100% of inflow)
 Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,025 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,025	0	0
1,688.00	2,000	3,025	3,025

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.44 cfs @ 12.15 hrs HW=1,686.80' (Free Discharge)

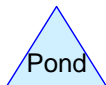
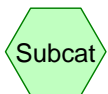
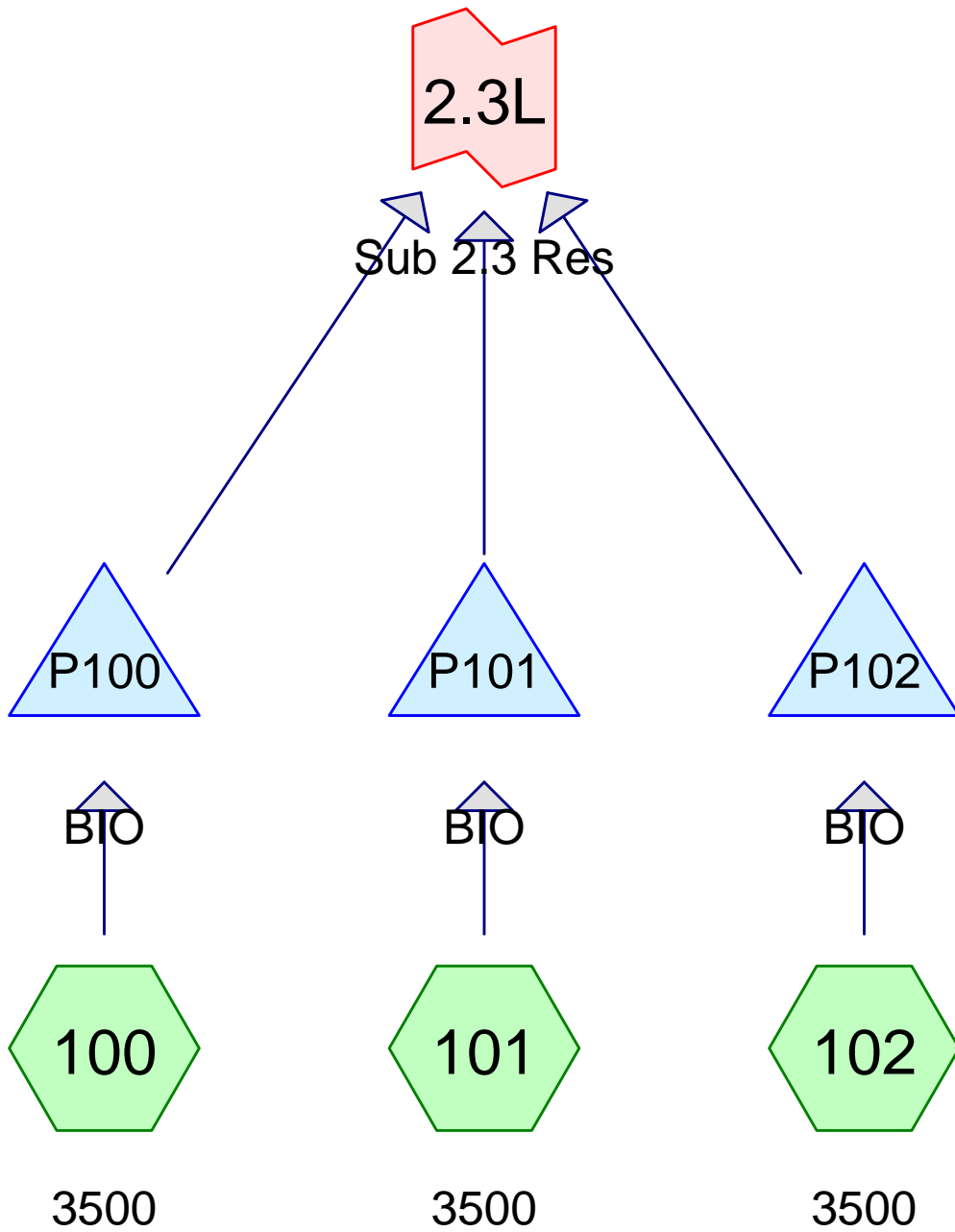
1=Orifice/Grate (Orifice Controls 0.42 cfs @ 2.16 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 2.1L: Sub 2.1 Res

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.44 cfs @ 12.15 hrs, Volume = 0.070 af
Primary = 0.44 cfs @ 12.15 hrs, Volume = 0.070 af, Atten = 0%, Lag = 0.0 min

Primary outflow = Inflow, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs



Routing Diagram for 08077_Sub 2.3
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.069	98	Driveway, extra imperv., HSG C (100, 101, 102)
0.172	98	Roofs, HSG C (100, 101, 102)
0.241	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.241	HSG C	100, 101, 102
0.000	HSG D	
0.000	Other	
0.241		TOTAL AREA

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 100: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 101: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 102: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Pond P100: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P101: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P102: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Link 2.3L: Sub 2.3 Res Inflow=0.03 cfs 0.043 af
Primary=0.03 cfs 0.043 af

Total Runoff Area = 0.241 ac Runoff Volume = 0.043 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.241 ac

08077_Sub 2.3

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 5

Summary for Subcatchment 100: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 101: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 102: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P100: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)
 1=Orifice/Grate (Controls 0.00 cfs)
 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P101: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P102: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.3L: Sub 2.3 Res

Inflow Area = 0.241 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.03 cfs @ 13.59 hrs, Volume= 0.043 af
 Primary = 0.03 cfs @ 13.59 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 2.3

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 8

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 100: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 101: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 102: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Pond P100: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P101: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P102: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Link 2.3L: Sub 2.3 Res

Inflow=0.07 cfs 0.080 af
Primary=0.07 cfs 0.080 af

Total Runoff Area = 0.241 ac Runoff Volume = 0.080 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.241 ac

Summary for Subcatchment 100: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 101: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 102: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P100: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)
 1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)
 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P101: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 2.3

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 11

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P102: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.3L: Sub 2.3 Res

Inflow Area = 0.241 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.07 cfs @ 13.15 hrs, Volume= 0.080 af
 Primary = 0.07 cfs @ 13.15 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 2.3

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 12

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 100: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 101: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 102: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Pond P100: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P101: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P102: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Link 2.3L: Sub 2.3 Res

Inflow=0.98 cfs 0.148 af
Primary=0.98 cfs 0.148 af

Total Runoff Area = 0.241 ac Runoff Volume = 0.148 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.241 ac

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 13

Summary for Subcatchment 100: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 101: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 102: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 14

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

Summary for Pond P100: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)
 1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)
 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P101: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 15

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P102: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

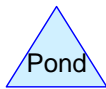
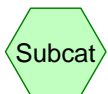
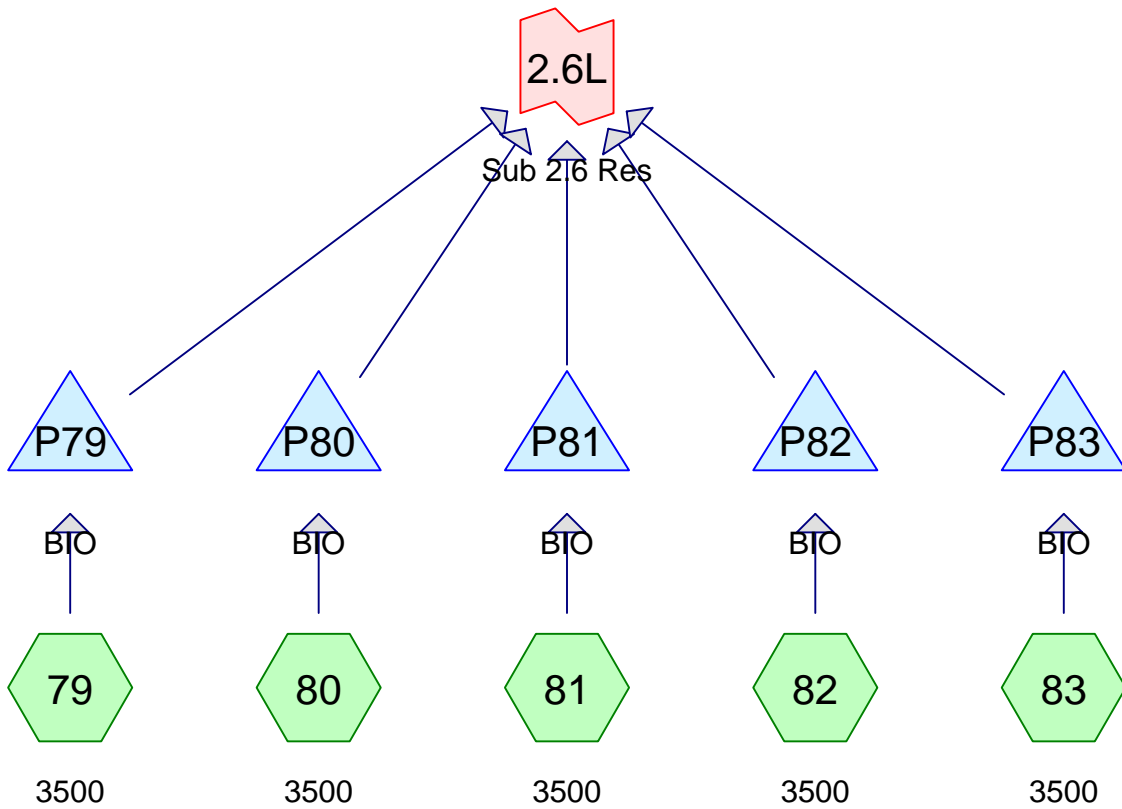
1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.3L: Sub 2.3 Res

Inflow Area = 0.241 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.98 cfs @ 12.14 hrs, Volume= 0.148 af
 Primary = 0.98 cfs @ 12.14 hrs, Volume= 0.148 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 2.6
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.115	98	Driveway, extra imperv., HSG C (79, 80, 81, 82, 83)
0.287	98	Roofs, HSG C (79, 80, 81, 82, 83)
0.402	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.402	HSG C	79, 80, 81, 82, 83
0.000	HSG D	
0.000	Other	
0.402		TOTAL AREA

08077_Sub 2.6

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 79: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 80: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 81: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 82: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 83: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Pond P79: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P80: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P81: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P82: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P83: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Link 2.6L: Sub 2.6 Res Inflow=0.05 cfs 0.072 af
Primary=0.05 cfs 0.072 af

Total Runoff Area = 0.402 ac Runoff Volume = 0.072 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.402 ac

Summary for Subcatchment 79: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 80: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 81: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 6

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

Summary for Subcatchment 82: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 83: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P79: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P80: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P81: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P82: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 9

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P83: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.6L: Sub 2.6 Res

Inflow Area = 0.402 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.05 cfs @ 13.59 hrs, Volume= 0.072 af
 Primary = 0.05 cfs @ 13.59 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 2.6

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 10

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 79: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 80: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 81: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 82: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 83: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Pond P79: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P80: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P81: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P82: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P83: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Link 2.6L: Sub 2.6 Res Inflow=0.12 cfs 0.134 af
Primary=0.12 cfs 0.134 af

Total Runoff Area = 0.402 ac Runoff Volume = 0.134 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.402 ac

Summary for Subcatchment 79: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 80: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 81: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

08077_Sub 2.6

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 12

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

Summary for Subcatchment 82: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 83: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P79: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 13

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P80: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P81: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P82: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 15

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P83: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.6L: Sub 2.6 Res

Inflow Area = 0.402 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.12 cfs @ 13.15 hrs, Volume= 0.134 af
 Primary = 0.12 cfs @ 13.15 hrs, Volume= 0.134 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 16

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 79: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 80: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 81: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 82: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 83: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Pond P79: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P80: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P81: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P82: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P83: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Link 2.6L: Sub 2.6 Res	Inflow=1.64 cfs 0.247 af Primary=1.64 cfs 0.247 af

Total Runoff Area = 0.402 ac Runoff Volume = 0.247 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.402 ac

Summary for Subcatchment 79: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 80: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 81: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

08077_Sub 2.6

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 18

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

Summary for Subcatchment 82: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 83: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P79: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

08077_Sub 2.6

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 19

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P80: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

08077_Sub 2.6

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 20

Summary for Pond P81: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P82: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 21

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P83: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

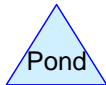
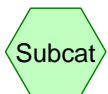
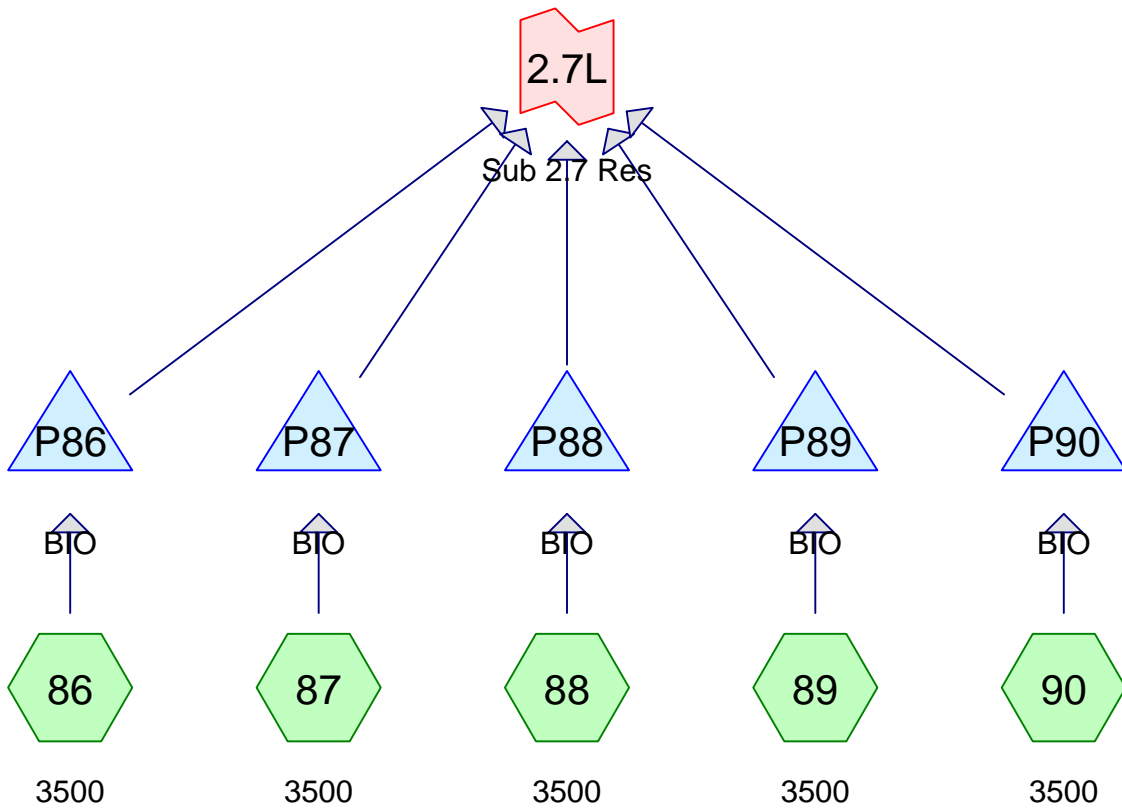
1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.6L: Sub 2.6 Res

Inflow Area = 0.402 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.64 cfs @ 12.14 hrs, Volume= 0.247 af
 Primary = 1.64 cfs @ 12.14 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 2.7
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.115	98	Driveway, extra imperv., HSG C (86, 87, 88, 89, 90)
0.287	98	Roofs, HSG C (86, 87, 88, 89, 90)
0.402	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.402	HSG C	86, 87, 88, 89, 90
0.000	HSG D	
0.000	Other	
0.402		TOTAL AREA

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 86: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 87: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 88: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 89: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 90: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Pond P86: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P87: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P88: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P89: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P90: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Link 2.7L: Sub 2.7 Res	Inflow=0.05 cfs 0.072 af Primary=0.05 cfs 0.072 af

Total Runoff Area = 0.402 ac Runoff Volume = 0.072 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.402 ac

Summary for Subcatchment 86: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 87: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 88: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

08077_Sub 2.7

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 6

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

Summary for Subcatchment 89: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 90: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P86: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

08077_Sub 2.7

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P87: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P88: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P89: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

08077_Sub 2.7

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 9

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P90: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.7L: Sub 2.7 Res

Inflow Area = 0.402 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.05 cfs @ 13.59 hrs, Volume= 0.072 af
 Primary = 0.05 cfs @ 13.59 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 2.7

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 10

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 86: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 87: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 88: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 89: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 90: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Pond P86: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P87: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P88: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P89: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P90: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Link 2.7L: Sub 2.7 Res	Inflow=0.12 cfs 0.134 af Primary=0.12 cfs 0.134 af

Total Runoff Area = 0.402 ac Runoff Volume = 0.134 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.402 ac

08077_Sub 2.7

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 11

Summary for Subcatchment 86: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 87: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 88: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 12

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

Summary for Subcatchment 89: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 90: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P86: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 13

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P87: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 14

Summary for Pond P88: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P89: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 15

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P90: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.7L: Sub 2.7 Res

Inflow Area = 0.402 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.12 cfs @ 13.15 hrs, Volume= 0.134 af
 Primary = 0.12 cfs @ 13.15 hrs, Volume= 0.134 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 2.7

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 16

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 86: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 87: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 88: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 89: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 90: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Pond P86: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P87: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P88: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P89: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P90: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Link 2.7L: Sub 2.7 Res	Inflow=1.64 cfs 0.247 af Primary=1.64 cfs 0.247 af

Total Runoff Area = 0.402 ac Runoff Volume = 0.247 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.402 ac

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 17

Summary for Subcatchment 86: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 87: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 88: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 18

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

Summary for Subcatchment 89: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 90: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P86: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 19

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P87: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 20

Summary for Pond P88: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P89: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 21

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

↑1=**Orifice/Grate** (Weir Controls 0.31 cfs @ 1.29 fps)

↑2=**Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P90: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

↑1=**Orifice/Grate** (Weir Controls 0.31 cfs @ 1.29 fps)

↑2=**Exfiltration** (Exfiltration Controls 0.01 cfs)

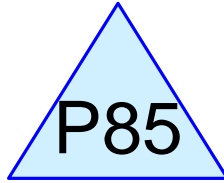
Summary for Link 2.7L: Sub 2.7 Res

Inflow Area = 0.402 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.64 cfs @ 12.14 hrs, Volume= 0.247 af
 Primary = 1.64 cfs @ 12.14 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min

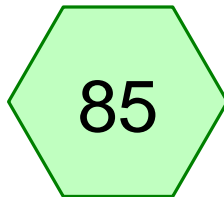
Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



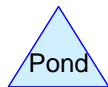
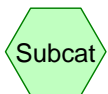
Sub 2.8 Res



BIO



4000



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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.023	98	Driveway, extra imperv., HSG C (85)
0.069	98	Roofs, HSG C (85)
0.092	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.092	HSG C	85
0.000	HSG D	
0.000	Other	
0.092		TOTAL AREA

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 85: 4000

Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.23 cfs 0.016 af

Pond P85: BIO

Peak Elev=1,686.34' Storage=300 cf Inflow=0.23 cfs 0.016 af
Outflow=0.01 cfs 0.016 af

Link 2.8L: Sub 2.8 Res

Inflow=0.01 cfs 0.016 af
Primary=0.01 cfs 0.016 af

Total Runoff Area = 0.092 ac Runoff Volume = 0.016 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.092 ac

Summary for Subcatchment 85: 4000

Runoff = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Pond P85: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af
 Outflow = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af, Atten= 95%, Lag= 98.4 min
 Primary = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.34' @ 13.68 hrs Surf.Area= 967 sf Storage= 300 cf

Plug-Flow detention time= 232.2 min calculated for 0.016 af (100% of inflow)
 Center-of-Mass det. time= 232.1 min (998.3 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.68 hrs HW=1,686.33' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.8L: Sub 2.8 Res

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af
Primary = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 7

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 85: 4000

Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.38 cfs 0.031 af

Pond P85: BIO

Peak Elev=1,686.62' Storage=599 cf Inflow=0.38 cfs 0.031 af
Outflow=0.03 cfs 0.031 af

Link 2.8L: Sub 2.8 Res

Inflow=0.03 cfs 0.031 af
Primary=0.03 cfs 0.031 af

Total Runoff Area = 0.092 ac Runoff Volume = 0.031 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.092 ac

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 8

Summary for Subcatchment 85: 4000

Runoff = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Pond P85: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af
 Outflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 91%, Lag= 49.3 min
 Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 12.86 hrs Surf.Area= 1,091 sf Storage= 599 cf

Plug-Flow detention time= 400.4 min calculated for 0.031 af (100% of inflow)
 Center-of-Mass det. time= 400.5 min (1,152.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.03 cfs @ 12.86 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.02 cfs @ 0.52 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.8L: Sub 2.8 Res

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af
Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 2.8

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 10

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 85: 4000

Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.60 cfs 0.056 af

Pond P85: BIO

Peak Elev=1,686.77' Storage=767 cf Inflow=0.60 cfs 0.056 af
Outflow=0.39 cfs 0.056 af

Link 2.8L: Sub 2.8 Res

Inflow=0.39 cfs 0.056 af
Primary=0.39 cfs 0.056 af

Total Runoff Area = 0.092 ac Runoff Volume = 0.056 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.092 ac

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 11

Summary for Subcatchment 85: 4000

Runoff = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Pond P85: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event

Inflow = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af

Outflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 36%, Lag= 5.3 min

Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.77' @ 12.13 hrs Surf.Area= 1,154 sf Storage= 767 cf

Plug-Flow detention time= 291.5 min calculated for 0.056 af (100% of inflow)

Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.38 cfs @ 12.13 hrs HW=1,686.77' (Free Discharge)

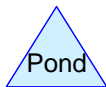
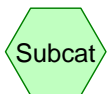
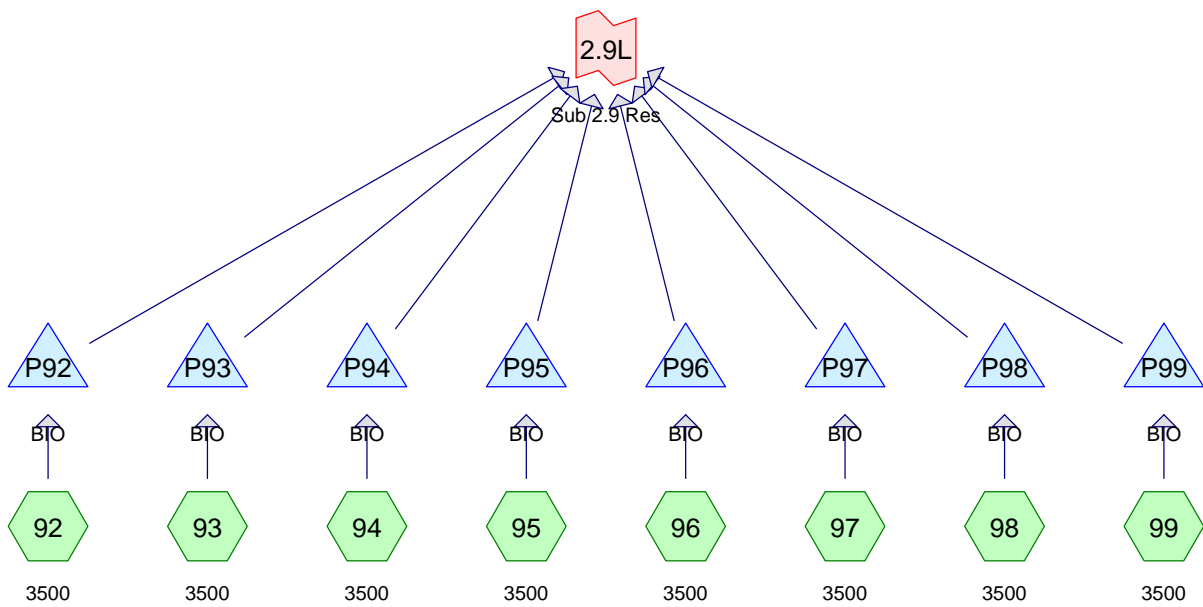
1=Orifice/Grate (Weir Controls 0.37 cfs @ 1.36 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.8L: Sub 2.8 Res

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af
Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 2.9
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.184	98	Driveway, extra imperv., HSG C (92, 93, 94, 95, 96, 97, 98, 99)
0.459	98	Roofs, HSG C (92, 93, 94, 95, 96, 97, 98, 99)
0.643	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.643	HSG C	92, 93, 94, 95, 96, 97, 98, 99
0.000	HSG D	
0.000	Other	
0.643		TOTAL AREA

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 92: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 93: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 94: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 95: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 96: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 97: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 98: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 99: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Pond P92: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P93: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P94: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P95: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P96: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P97: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P98: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P99: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af

08077_Sub 2.9

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 5

Link 2.9L: Sub 2.9 Res

Inflow=0.08 cfs 0.115 af

Primary=0.08 cfs 0.115 af

Total Runoff Area = 0.643 ac Runoff Volume = 0.115 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.643 ac

Summary for Subcatchment 92: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 93: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 94: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

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

Summary for Subcatchment 95: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 96: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 97: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

08077_Sub 2.9

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 8

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 98: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 99: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P92: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P93: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P94: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P95: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 11

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P96: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P97: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P98: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 13

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

1=Orifice/Grate (Controls 0.00 cfs)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P99: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)

Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

1=Orifice/Grate (Controls 0.00 cfs)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.9L: Sub 2.9 Res

Inflow Area = 0.643 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.08 cfs @ 13.59 hrs, Volume= 0.115 af
 Primary = 0.08 cfs @ 13.59 hrs, Volume= 0.115 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 14

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 92: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 93: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 94: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 95: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 96: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 97: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 98: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 99: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Pond P92: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P93: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P94: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P95: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P96: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P97: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P98: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P99: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 15

Link 2.9L: Sub 2.9 Res

Inflow=0.19 cfs 0.215 af

Primary=0.19 cfs 0.215 af

Total Runoff Area = 0.643 ac Runoff Volume = 0.215 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.643 ac

Summary for Subcatchment 92: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 93: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 94: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 17

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

Summary for Subcatchment 95: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 96: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 97: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 18

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 98: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 99: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 19

Summary for Pond P92: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P93: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 20

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

↑1=**Orifice/Grate** (Weir Controls 0.01 cfs @ 0.43 fps)

↓2=**Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P94: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

↑1=**Orifice/Grate** (Weir Controls 0.01 cfs @ 0.43 fps)

↓2=**Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P95: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 21

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P96: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 22

Summary for Pond P97: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P98: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 23

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P99: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.9L: Sub 2.9 Res

Inflow Area = 0.643 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.19 cfs @ 13.15 hrs, Volume= 0.215 af
 Primary = 0.19 cfs @ 13.15 hrs, Volume= 0.215 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 2.9

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 24

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 92: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 93: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 94: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 95: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 96: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 97: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 98: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 99: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Pond P92: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P93: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P94: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P95: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P96: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P97: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P98: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P99: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af

08077_Sub 2.9

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 25

Link 2.9L: Sub 2.9 Res

Inflow=2.62 cfs 0.395 af

Primary=2.62 cfs 0.395 af

Total Runoff Area = 0.643 ac Runoff Volume = 0.395 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.643 ac

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 26

Summary for Subcatchment 92: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 93: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 94: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 27

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

Summary for Subcatchment 95: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 96: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 97: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 28

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 98: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 99: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 29

Summary for Pond P92: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P93: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P94: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P95: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 31

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P96: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 32

Summary for Pond P97: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P98: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 33

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P99: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

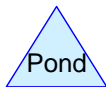
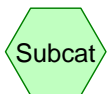
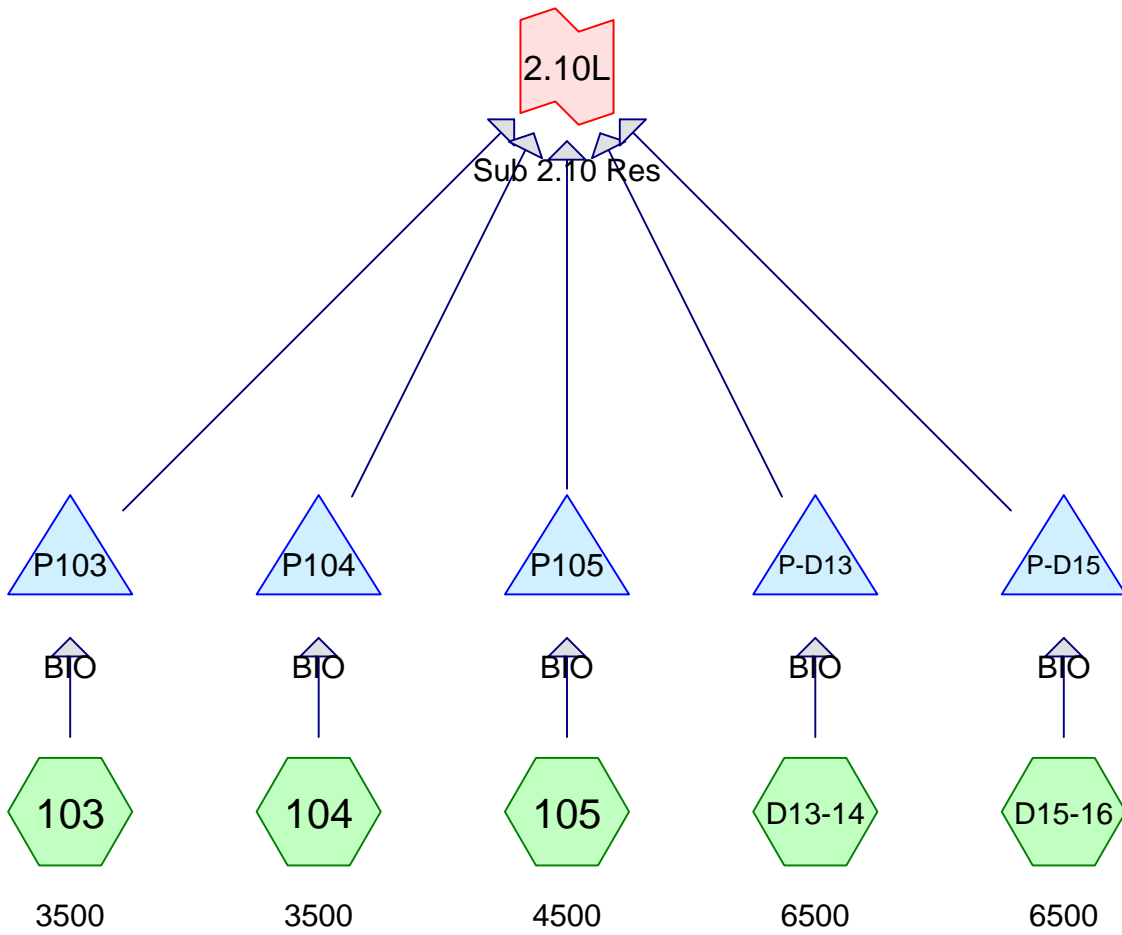
1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.9L: Sub 2.9 Res

Inflow Area = 0.643 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 2.62 cfs @ 12.14 hrs, Volume= 0.395 af
 Primary = 2.62 cfs @ 12.14 hrs, Volume= 0.395 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 2.10
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.161	98	Driveway, extra imperv., HSG C (103, 104, 105, D13-14, D15-16)
0.402	98	Roofs, HSG C (103, 104, 105, D13-14, D15-16)
0.562	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.562	HSG C	103, 104, 105, D13-14, D15-16
0.000	HSG D	
0.000	Other	
0.562		TOTAL AREA

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 103: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 104: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 105: 4500	Runoff Area=4,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.26 cfs 0.018 af
Subcatchment D13-14: 6500	Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.37 cfs 0.027 af
Subcatchment D15-16: 6500	Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.37 cfs 0.027 af
Pond P-D13: BIO	Peak Elev=1,686.38' Storage=514 cf Inflow=0.37 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P-D15: BIO	Peak Elev=1,686.38' Storage=514 cf Inflow=0.37 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P103: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P104: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P105: BIO	Peak Elev=1,686.32' Storage=334 cf Inflow=0.26 cfs 0.018 af Outflow=0.01 cfs 0.018 af
Link 2.10L: Sub 2.10 Res	Inflow=0.07 cfs 0.100 af Primary=0.07 cfs 0.100 af

Total Runoff Area = 0.562 ac Runoff Volume = 0.100 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.562 ac

Summary for Subcatchment 103: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 104: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 105: 4500

Runoff = 0.26 cfs @ 12.04 hrs, Volume= 0.018 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
3,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,500	98	Weighted Average
4,500		100.00% Impervious Area

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

Summary for Subcatchment D13-14: 6500

Runoff = 0.37 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Subcatchment D15-16: 6500

Runoff = 0.37 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Pond P-D13: BIO

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.37 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.91 hrs, Volume= 0.027 af, Atten= 96%, Lag= 112.4 min
 Primary = 0.02 cfs @ 13.91 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.38' @ 13.91 hrs Surf.Area= 1,432 sf Storage= 514 cf

Plug-Flow detention time= 276.6 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 276.6 min (1,042.8 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.91 hrs HW=1,686.38' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P-D15: BIO

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.37 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.91 hrs, Volume= 0.027 af, Atten= 96%, Lag= 112.4 min
 Primary = 0.02 cfs @ 13.91 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.38' @ 13.91 hrs Surf.Area= 1,432 sf Storage= 514 cf

Plug-Flow detention time= 276.6 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 276.6 min (1,042.8 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.91 hrs HW=1,686.38' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P103: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P104: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P105: BIO

Inflow Area = 0.103 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.26 cfs @ 12.04 hrs, Volume= 0.018 af
 Outflow = 0.01 cfs @ 13.60 hrs, Volume= 0.018 af, Atten= 95%, Lag= 93.7 min
 Primary = 0.01 cfs @ 13.60 hrs, Volume= 0.018 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.60 hrs Surf.Area= 1,127 sf Storage= 334 cf

Plug-Flow detention time= 220.4 min calculated for 0.018 af (100% of inflow)
 Center-of-Mass det. time= 220.3 min (986.5 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,225 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	950	0	0
1,687.00	1,500	1,225	1,225

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.60 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.10L: Sub 2.10 Res

Inflow Area = 0.562 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.07 cfs @ 13.71 hrs, Volume= 0.100 af
 Primary = 0.07 cfs @ 13.71 hrs, Volume= 0.100 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 103: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 104: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 105: 4500	Runoff Area=4,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.43 cfs 0.034 af
Subcatchment D13-14: 6500	Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.62 cfs 0.050 af
Subcatchment D15-16: 6500	Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.62 cfs 0.050 af
Pond P-D13: BIO	Peak Elev=1,686.66' Storage=933 cf Inflow=0.62 cfs 0.050 af Outflow=0.10 cfs 0.050 af
Pond P-D15: BIO	Peak Elev=1,686.66' Storage=933 cf Inflow=0.62 cfs 0.050 af Outflow=0.10 cfs 0.050 af
Pond P103: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P104: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P105: BIO	Peak Elev=1,686.62' Storage=694 cf Inflow=0.43 cfs 0.034 af Outflow=0.03 cfs 0.034 af
Link 2.10L: Sub 2.10 Res	Inflow=0.23 cfs 0.188 af Primary=0.23 cfs 0.188 af

Total Runoff Area = 0.562 ac Runoff Volume = 0.188 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.562 ac

Summary for Subcatchment 103: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 104: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 105: 4500

Runoff = 0.43 cfs @ 12.04 hrs, Volume= 0.034 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
3,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,500	98	Weighted Average
4,500		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 12

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

Summary for Subcatchment D13-14: 6500

Runoff = 0.62 cfs @ 12.04 hrs, Volume= 0.050 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Subcatchment D15-16: 6500

Runoff = 0.62 cfs @ 12.04 hrs, Volume= 0.050 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Pond P-D13: BIO

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.62 cfs @ 12.04 hrs, Volume= 0.050 af
 Outflow = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af, Atten= 85%, Lag= 33.0 min
 Primary = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 1,686.66' @ 12.59 hrs Surf.Area= 1,548 sf Storage= 933 cf

Plug-Flow detention time= 390.7 min calculated for 0.050 af (100% of inflow)
Center-of-Mass det. time= 390.6 min (1,142.8 - 752.2)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 13

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.09 cfs @ 12.59 hrs HW=1,686.66' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.08 cfs @ 0.81 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P-D15: BIO

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.62 cfs @ 12.04 hrs, Volume= 0.050 af
 Outflow = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af, Atten= 85%, Lag= 33.0 min
 Primary = 0.10 cfs @ 12.59 hrs, Volume= 0.050 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.66' @ 12.59 hrs Surf.Area= 1,548 sf Storage= 933 cf

Plug-Flow detention time= 390.7 min calculated for 0.050 af (100% of inflow)
 Center-of-Mass det. time= 390.6 min (1,142.8 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.09 cfs @ 12.59 hrs HW=1,686.66' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.08 cfs @ 0.81 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P103: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P104: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 15

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P105: BIO

Inflow Area = 0.103 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.43 cfs @ 12.04 hrs, Volume= 0.034 af
 Outflow = 0.03 cfs @ 13.23 hrs, Volume= 0.034 af, Atten= 93%, Lag= 71.6 min
 Primary = 0.03 cfs @ 13.23 hrs, Volume= 0.034 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.23 hrs Surf.Area= 1,290 sf Storage= 694 cf

Plug-Flow detention time= 406.6 min calculated for 0.034 af (100% of inflow)

Center-of-Mass det. time= 406.7 min (1,158.9 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,225 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	950	0	0
1,687.00	1,500	1,225	1,225

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.03 cfs @ 13.23 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.45 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 2.10L: Sub 2.10 Res

Inflow Area = 0.562 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.23 cfs @ 12.59 hrs, Volume= 0.188 af
 Primary = 0.23 cfs @ 12.59 hrs, Volume= 0.188 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 103: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 104: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 105: 4500	Runoff Area=4,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.68 cfs 0.063 af
Subcatchment D13-14: 6500	Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.98 cfs 0.092 af
Subcatchment D15-16: 6500	Runoff Area=6,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.98 cfs 0.092 af
Pond P-D13: BIO	Peak Elev=1,686.87' Storage=1,265 cf Inflow=0.98 cfs 0.092 af Outflow=0.51 cfs 0.092 af
Pond P-D15: BIO	Peak Elev=1,686.87' Storage=1,265 cf Inflow=0.98 cfs 0.092 af Outflow=0.51 cfs 0.092 af
Pond P103: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P104: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P105: BIO	Peak Elev=1,686.77' Storage=900 cf Inflow=0.68 cfs 0.063 af Outflow=0.39 cfs 0.063 af
Link 2.10L: Sub 2.10 Res	Inflow=2.06 cfs 0.345 af Primary=2.06 cfs 0.345 af

Total Runoff Area = 0.562 ac Runoff Volume = 0.345 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.562 ac

Summary for Subcatchment 103: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 104: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 105: 4500

Runoff = 0.68 cfs @ 12.04 hrs, Volume= 0.063 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
3,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,500	98	Weighted Average
4,500		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 18

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

Summary for Subcatchment D13-14: 6500

Runoff = 0.98 cfs @ 12.04 hrs, Volume= 0.092 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Subcatchment D15-16: 6500

Runoff = 0.98 cfs @ 12.04 hrs, Volume= 0.092 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 2,000	98	Driveway, extra imperv., HSG C
6,500	98	Weighted Average
6,500		100.00% Impervious Area

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

Summary for Pond P-D13: BIO

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.98 cfs @ 12.04 hrs, Volume= 0.092 af
 Outflow = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af, Atten= 48%, Lag= 7.7 min
 Primary = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 1,686.87' @ 12.17 hrs Surf.Area= 1,634 sf Storage= 1,265 cf

Plug-Flow detention time= 278.6 min calculated for 0.092 af (100% of inflow)
Center-of-Mass det. time= 278.4 min (1,020.7 - 742.3)

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 19

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.51 cfs @ 12.17 hrs HW=1,686.87' (Free Discharge)

1=Orifice/Grate (Orifice Controls 0.49 cfs @ 2.49 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P-D15: BIO

Inflow Area = 0.149 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.98 cfs @ 12.04 hrs, Volume= 0.092 af
 Outflow = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af, Atten= 48%, Lag= 7.7 min
 Primary = 0.51 cfs @ 12.17 hrs, Volume= 0.092 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.87' @ 12.17 hrs Surf.Area= 1,634 sf Storage= 1,265 cf

Plug-Flow detention time= 278.6 min calculated for 0.092 af (100% of inflow)
 Center-of-Mass det. time= 278.4 min (1,020.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,375 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,275	0	0
1,688.00	2,100	3,375	3,375

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.51 cfs @ 12.17 hrs HW=1,686.87' (Free Discharge)

1=Orifice/Grate (Orifice Controls 0.49 cfs @ 2.49 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P103: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P104: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

08077_Sub 2.10

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 21

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

↑1=**Orifice/Grate** (Weir Controls 0.31 cfs @ 1.29 fps)

↑2=**Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P105: BIO

Inflow Area = 0.103 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.68 cfs @ 12.04 hrs, Volume= 0.063 af
 Outflow = 0.39 cfs @ 12.15 hrs, Volume= 0.063 af, Atten= 43%, Lag= 6.9 min
 Primary = 0.39 cfs @ 12.15 hrs, Volume= 0.063 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.77' @ 12.15 hrs Surf.Area= 1,376 sf Storage= 900 cf

Plug-Flow detention time= 298.6 min calculated for 0.063 af (100% of inflow)

Center-of-Mass det. time= 298.5 min (1,040.8 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,225 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	950	0	0
1,687.00	1,500	1,225	1,225

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.39 cfs @ 12.15 hrs HW=1,686.77' (Free Discharge)

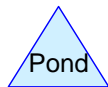
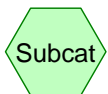
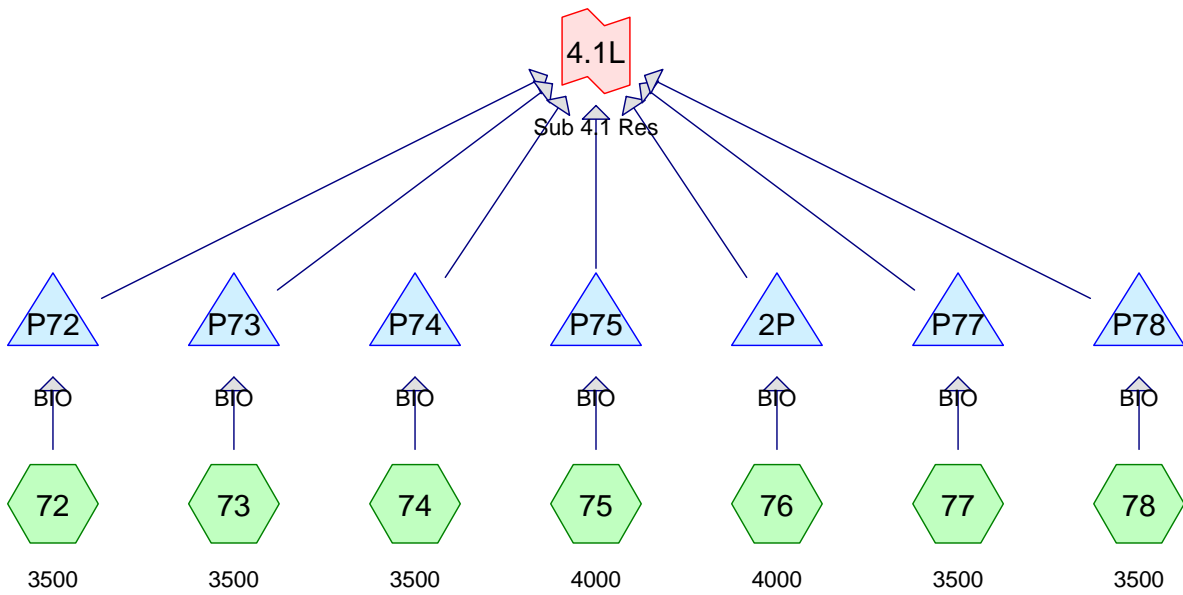
↑1=**Orifice/Grate** (Weir Controls 0.37 cfs @ 1.36 fps)

↑2=**Exfiltration** (Exfiltration Controls 0.02 cfs)

Summary for Link 2.10L: Sub 2.10 Res

Inflow Area = 0.562 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 2.06 cfs @ 12.15 hrs, Volume= 0.345 af
 Primary = 2.06 cfs @ 12.15 hrs, Volume= 0.345 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 4.1
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.161	98	Driveway, extra imperv., HSG C (72, 73, 74, 75, 76, 77, 78)
0.425	98	Roofs, HSG C (72, 73, 74, 75, 76, 77, 78)
0.585	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.585	HSG C	72, 73, 74, 75, 76, 77, 78
0.000	HSG D	
0.000	Other	
0.585		TOTAL AREA

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 72: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 73: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 74: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 75: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.23 cfs 0.016 af
Subcatchment 76: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.23 cfs 0.016 af
Subcatchment 77: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 78: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Pond 2P: BIO	Peak Elev=1,686.34' Storage=300 cf Inflow=0.23 cfs 0.016 af Outflow=0.01 cfs 0.016 af
Pond P72: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P73: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P74: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P75: BIO	Peak Elev=1,686.34' Storage=300 cf Inflow=0.23 cfs 0.016 af Outflow=0.01 cfs 0.016 af
Pond P77: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P78: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Link 4.1L: Sub 4.1 Res	Inflow=0.07 cfs 0.104 af Primary=0.07 cfs 0.104 af

Total Runoff Area = 0.585 ac Runoff Volume = 0.104 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.585 ac

Summary for Subcatchment 72: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 73: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 74: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 6

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

Summary for Subcatchment 75: 4000

Runoff = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 76: 4000

Runoff = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 77: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 78: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond 2P: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af
 Outflow = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af, Atten= 95%, Lag= 98.4 min
 Primary = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.34' @ 13.68 hrs Surf.Area= 967 sf Storage= 300 cf

Plug-Flow detention time= 232.2 min calculated for 0.016 af (100% of inflow)
 Center-of-Mass det. time= 232.1 min (998.3 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.68 hrs HW=1,686.33' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P72: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P73: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 9

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P74: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P75: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af
 Outflow = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af, Atten= 95%, Lag= 98.4 min
 Primary = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.34' @ 13.68 hrs Surf.Area= 967 sf Storage= 300 cf

Plug-Flow detention time= 232.2 min calculated for 0.016 af (100% of inflow)
 Center-of-Mass det. time= 232.1 min (998.3 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.68 hrs HW=1,686.33' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P77: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 11

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

1=Orifice/Grate (Controls 0.00 cfs)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P78: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)

Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

1=Orifice/Grate (Controls 0.00 cfs)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 4.1L: Sub 4.1 Res

Inflow Area = 0.585 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.07 cfs @ 13.62 hrs, Volume= 0.104 af
 Primary = 0.07 cfs @ 13.62 hrs, Volume= 0.104 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 4.1

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 12

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 72: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 73: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 74: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 75: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.38 cfs 0.031 af
Subcatchment 76: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.38 cfs 0.031 af
Subcatchment 77: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 78: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Pond 2P: BIO	Peak Elev=1,686.62' Storage=599 cf Inflow=0.38 cfs 0.031 af Outflow=0.03 cfs 0.031 af
Pond P72: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P73: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P74: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P75: BIO	Peak Elev=1,686.62' Storage=599 cf Inflow=0.38 cfs 0.031 af Outflow=0.03 cfs 0.031 af
Pond P77: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P78: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Link 4.1L: Sub 4.1 Res	Inflow=0.18 cfs 0.195 af Primary=0.18 cfs 0.195 af

Total Runoff Area = 0.585 ac Runoff Volume = 0.195 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.585 ac

Summary for Subcatchment 72: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 73: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 74: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 14

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

Summary for Subcatchment 75: 4000

Runoff = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 76: 4000

Runoff = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 77: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 15

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 78: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond 2P: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af
 Outflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 91%, Lag= 49.3 min
 Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 12.86 hrs Surf.Area= 1,091 sf Storage= 599 cf

Plug-Flow detention time= 400.4 min calculated for 0.031 af (100% of inflow)
 Center-of-Mass det. time= 400.5 min (1,152.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.03 cfs @ 12.86 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.02 cfs @ 0.52 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P72: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P73: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 17

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P74: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P75: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af
 Outflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 91%, Lag= 49.3 min
 Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 12.86 hrs Surf.Area= 1,091 sf Storage= 599 cf

Plug-Flow detention time= 400.4 min calculated for 0.031 af (100% of inflow)
 Center-of-Mass det. time= 400.5 min (1,152.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.03 cfs @ 12.86 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.02 cfs @ 0.52 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P77: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 19

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P78: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 4.1L: Sub 4.1 Res

Inflow Area = 0.585 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.18 cfs @ 13.06 hrs, Volume= 0.195 af
 Primary = 0.18 cfs @ 13.06 hrs, Volume= 0.195 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 4.1

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 20

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 72: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 73: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 74: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 75: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.60 cfs 0.056 af
Subcatchment 76: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.60 cfs 0.056 af
Subcatchment 77: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 78: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Pond 2P: BIO	Peak Elev=1,686.77' Storage=767 cf Inflow=0.60 cfs 0.056 af Outflow=0.39 cfs 0.056 af
Pond P72: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P73: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P74: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P75: BIO	Peak Elev=1,686.77' Storage=767 cf Inflow=0.60 cfs 0.056 af Outflow=0.39 cfs 0.056 af
Pond P77: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P78: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Link 4.1L: Sub 4.1 Res	Inflow=2.42 cfs 0.360 af Primary=2.42 cfs 0.360 af

Total Runoff Area = 0.585 ac Runoff Volume = 0.360 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.585 ac

Summary for Subcatchment 72: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 73: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 74: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 22

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

Summary for Subcatchment 75: 4000

Runoff = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 76: 4000

Runoff = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 77: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 23

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 78: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond 2P: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af
 Outflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 36%, Lag= 5.3 min
 Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.77' @ 12.13 hrs Surf.Area= 1,154 sf Storage= 767 cf

Plug-Flow detention time= 291.5 min calculated for 0.056 af (100% of inflow)
 Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.38 cfs @ 12.13 hrs HW=1,686.77' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.37 cfs @ 1.36 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P72: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P73: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 25

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P74: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 26

Summary for Pond P75: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af
 Outflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 36%, Lag= 5.3 min
 Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.77' @ 12.13 hrs Surf.Area= 1,154 sf Storage= 767 cf

Plug-Flow detention time= 291.5 min calculated for 0.056 af (100% of inflow)
 Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.38 cfs @ 12.13 hrs HW=1,686.77' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.37 cfs @ 1.36 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P77: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 27

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P78: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

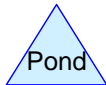
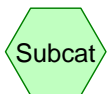
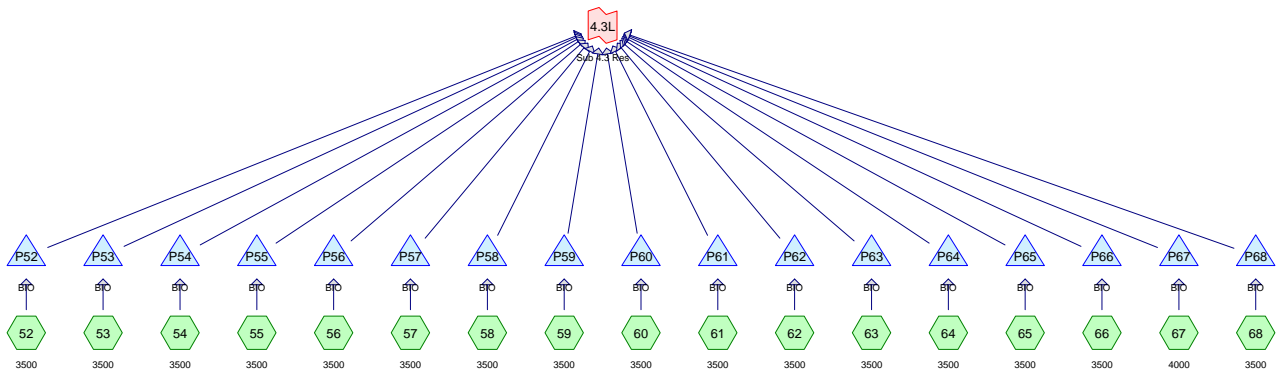
1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 4.1L: Sub 4.1 Res

Inflow Area = 0.585 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 2.42 cfs @ 12.13 hrs, Volume= 0.360 af
 Primary = 2.42 cfs @ 12.13 hrs, Volume= 0.360 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 4.3
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.390	98	Driveway, extra imperv., HSG C (52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68)
0.987	98	Roofs, HSG C (52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68)
1.377	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
1.377	HSG C	52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68
0.000	HSG D	
0.000	Other	
1.377		TOTAL AREA

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 52: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 53: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 54: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 55: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 56: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 57: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 58: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 59: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 60: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 61: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 62: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 63: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 64: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 65: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 66: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 67: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.23 cfs 0.016 af

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 5

Subcatchment 68: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Pond P52: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P53: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P54: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P55: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P56: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P57: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P58: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P59: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P60: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P61: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P62: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P63: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P64: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P65: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P66: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P67: BIO	Peak Elev=1,686.34' Storage=300 cf Inflow=0.23 cfs 0.016 af Outflow=0.01 cfs 0.016 af

08077_Sub 4.3

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 6

Pond P68: BIO

Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af

Outflow=0.01 cfs 0.014 af

Link 4.3L: Sub 4.3 Res

Inflow=0.17 cfs 0.246 af

Primary=0.17 cfs 0.246 af

Total Runoff Area = 1.377 ac Runoff Volume = 0.246 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 1.377 ac

Summary for Subcatchment 52: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 53: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 54: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 8

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

Summary for Subcatchment 55: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 56: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 57: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 9

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 58: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 59: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 10

Summary for Subcatchment 60: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 61: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 62: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 11

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

Summary for Subcatchment 63: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 64: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 65: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 12

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 66: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 67: 4000

Runoff = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 13

Summary for Subcatchment 68: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P52: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P53: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P54: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P55: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P56: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 16

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P57: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P58: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P59: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P60: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P61: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 19

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P62: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P63: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P64: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P65: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P66: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 22

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P67: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af
 Outflow = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af, Atten= 95%, Lag= 98.4 min
 Primary = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.34' @ 13.68 hrs Surf.Area= 967 sf Storage= 300 cf

Plug-Flow detention time= 232.2 min calculated for 0.016 af (100% of inflow)
 Center-of-Mass det. time= 232.1 min (998.3 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.68 hrs HW=1,686.33' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 23

Summary for Pond P68: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 4.3L: Sub 4.3 Res

Inflow Area = 1.377 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.17 cfs @ 13.60 hrs, Volume= 0.246 af
 Primary = 0.17 cfs @ 13.60 hrs, Volume= 0.246 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 24

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 52: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 53: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 54: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 55: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 56: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 57: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 58: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 59: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 60: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 61: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 62: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 63: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 64: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 65: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 66: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 67: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.38 cfs 0.031 af

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 25

Subcatchment 68: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Pond P52: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P53: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P54: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P55: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P56: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P57: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P58: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P59: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P60: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P61: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P62: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P63: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P64: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P65: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P66: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P67: BIO	Peak Elev=1,686.62' Storage=599 cf Inflow=0.38 cfs 0.031 af Outflow=0.03 cfs 0.031 af

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 26

Pond P68: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af

Outflow=0.02 cfs 0.027 af

Link 4.3L: Sub 4.3 Res

Inflow=0.41 cfs 0.460 af

Primary=0.41 cfs 0.460 af

Total Runoff Area = 1.377 ac Runoff Volume = 0.460 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 1.377 ac

Summary for Subcatchment 52: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 53: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 54: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 28

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

Summary for Subcatchment 55: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 56: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 57: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 29

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 58: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 59: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 60: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 61: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 62: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 31

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

Summary for Subcatchment 63: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 64: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 65: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 32

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 66: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 67: 4000

Runoff = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 33

Summary for Subcatchment 68: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P52: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P53: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P54: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 35

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P55: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P56: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

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Page 36

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P57: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 37

Summary for Pond P58: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P59: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 38

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P60: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P61: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 39

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P62: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P63: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P64: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 41

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

↑1=**Orifice/Grate** (Weir Controls 0.01 cfs @ 0.43 fps)

└2=**Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P65: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

↑1=**Orifice/Grate** (Weir Controls 0.01 cfs @ 0.43 fps)

└2=**Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P66: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 42

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P67: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af
 Outflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 91%, Lag= 49.3 min
 Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 12.86 hrs Surf.Area= 1,091 sf Storage= 599 cf

Plug-Flow detention time= 400.4 min calculated for 0.031 af (100% of inflow)
 Center-of-Mass det. time= 400.5 min (1,152.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.03 cfs @ 12.86 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.02 cfs @ 0.52 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 43

Summary for Pond P68: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 4.3L: Sub 4.3 Res

Inflow Area = 1.377 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.41 cfs @ 13.13 hrs, Volume= 0.460 af
 Primary = 0.41 cfs @ 13.13 hrs, Volume= 0.460 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 44

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 52: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 53: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 54: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 55: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 56: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 57: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 58: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 59: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 60: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 61: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 62: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 63: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 64: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 65: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 66: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 67: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.60 cfs 0.056 af

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 45

Subcatchment 68: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Pond P52: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P53: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P54: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P55: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P56: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P57: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P58: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P59: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P60: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P61: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P62: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P63: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P64: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P65: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P66: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P67: BIO	Peak Elev=1,686.77' Storage=767 cf Inflow=0.60 cfs 0.056 af Outflow=0.39 cfs 0.056 af

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 46

Pond P68: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af

Outflow=0.33 cfs 0.049 af

Link 4.3L: Sub 4.3 Res

Inflow=5.64 cfs 0.846 af

Primary=5.64 cfs 0.846 af

Total Runoff Area = 1.377 ac Runoff Volume = 0.846 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 1.377 ac

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 47

Summary for Subcatchment 52: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 53: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 54: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 48

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

Summary for Subcatchment 55: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 56: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 57: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 49

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 58: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 59: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 60: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 61: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 62: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 51

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

Summary for Subcatchment 63: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 64: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 65: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 52

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 66: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 67: 4000

Runoff = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 53

Summary for Subcatchment 68: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P52: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 54

Summary for Pond P53: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P54: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P55: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P56: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

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Page 56

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P57: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

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Page 57

Summary for Pond P58: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P59: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P60: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P61: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 59

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P62: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

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Page 60

Summary for Pond P63: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P64: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 61

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

↑1=**Orifice/Grate** (Weir Controls 0.31 cfs @ 1.29 fps)

↓2=**Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P65: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

↑1=**Orifice/Grate** (Weir Controls 0.31 cfs @ 1.29 fps)

↓2=**Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P66: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 62

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P67: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af
 Outflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 36%, Lag= 5.3 min
 Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.77' @ 12.13 hrs Surf.Area= 1,154 sf Storage= 767 cf

Plug-Flow detention time= 291.5 min calculated for 0.056 af (100% of inflow)
 Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.38 cfs @ 12.13 hrs HW=1,686.77' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.37 cfs @ 1.36 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 63

Summary for Pond P68: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

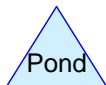
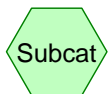
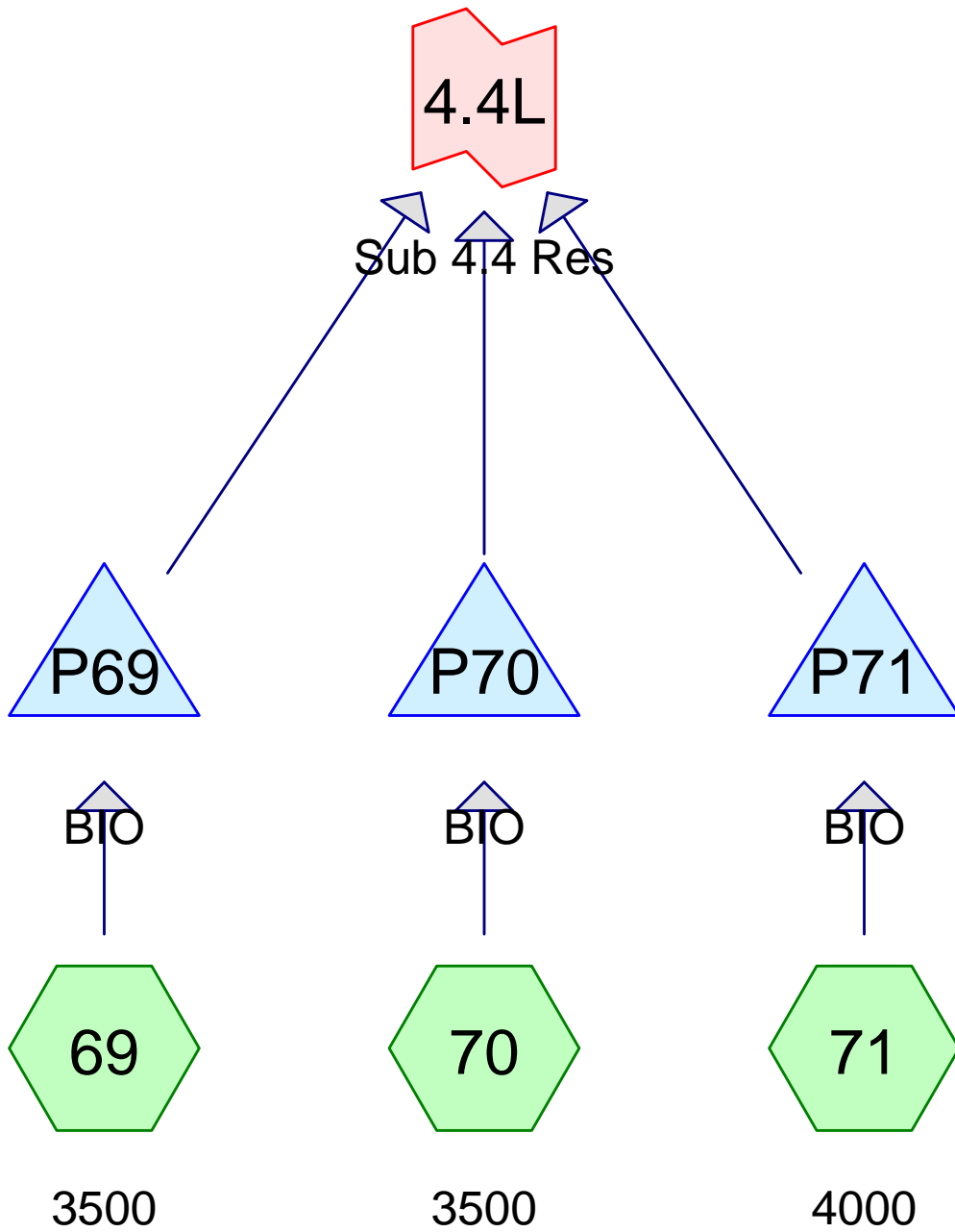
Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)
 1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)
 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 4.3L: Sub 4.3 Res

Inflow Area = 1.377 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 5.64 cfs @ 12.14 hrs, Volume= 0.846 af
 Primary = 5.64 cfs @ 12.14 hrs, Volume= 0.846 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 4.4
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.069	98	Driveway, extra imperv., HSG C (69, 70, 71)
0.184	98	Roofs, HSG C (69, 70, 71)
0.253	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.253	HSG C	69, 70, 71
0.000	HSG D	
0.000	Other	
0.253		TOTAL AREA

08077_Sub 4.4

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 69: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 70: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 71: 4000

Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.23 cfs 0.016 af

Pond P69: BIO

Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P70: BIO

Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P71: BIO

Peak Elev=1,686.34' Storage=300 cf Inflow=0.23 cfs 0.016 af
Outflow=0.01 cfs 0.016 af

Link 4.4L: Sub 4.4 Res

Inflow=0.03 cfs 0.045 af
Primary=0.03 cfs 0.045 af

Total Runoff Area = 0.253 ac Runoff Volume = 0.045 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.253 ac

Summary for Subcatchment 69: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 70: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 71: 4000

Runoff = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

08077_Sub 4.4

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 6

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

Summary for Pond P69: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume = 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af, Atten = 95%, Lag = 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.32' @ 13.59 hrs Surf.Area = 879 sf Storage = 260 cf

Plug-Flow detention time = 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time = 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.01 cfs @ 13.59 hrs HW = 1,686.32' (Free Discharge)
 1 = **Orifice/Grate** (Controls 0.00 cfs)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P70: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume = 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af, Atten = 95%, Lag = 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.32' @ 13.59 hrs Surf.Area = 879 sf Storage = 260 cf

Plug-Flow detention time = 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time = 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 4.4

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P71: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af
 Outflow = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af, Atten= 95%, Lag= 98.4 min
 Primary = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.34' @ 13.68 hrs Surf.Area= 967 sf Storage= 300 cf

Plug-Flow detention time= 232.2 min calculated for 0.016 af (100% of inflow)
 Center-of-Mass det. time= 232.1 min (998.3 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.68 hrs HW=1,686.33' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 4.4L: Sub 4.4 Res

Inflow Area = 0.253 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.03 cfs @ 13.62 hrs, Volume= 0.045 af
 Primary = 0.03 cfs @ 13.62 hrs, Volume= 0.045 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 4.4

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 8

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 69: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 70: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 71: 4000

Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.38 cfs 0.031 af

Pond P69: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P70: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P71: BIO

Peak Elev=1,686.62' Storage=599 cf Inflow=0.38 cfs 0.031 af
Outflow=0.03 cfs 0.031 af

Link 4.4L: Sub 4.4 Res

Inflow=0.08 cfs 0.084 af
Primary=0.08 cfs 0.084 af

**Total Runoff Area = 0.253 ac Runoff Volume = 0.084 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.253 ac**

Summary for Subcatchment 69: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 70: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 71: 4000

Runoff = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 10

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

Summary for Pond P69: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume = 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af, Atten = 93%, Lag = 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.62' @ 13.15 hrs Surf.Area = 1,018 sf Storage = 538 cf

Plug-Flow detention time = 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time = 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.02 cfs @ 13.15 hrs HW = 1,686.62' (Free Discharge)
 1 = **Orifice/Grate** (Weir Controls 0.01 cfs @ 0.43 fps)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P70: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume = 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af, Atten = 93%, Lag = 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.62' @ 13.15 hrs Surf.Area = 1,018 sf Storage = 538 cf

Plug-Flow detention time = 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time = 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 4.4

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 11

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P71: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af
 Outflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 91%, Lag= 49.3 min
 Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 12.86 hrs Surf.Area= 1,091 sf Storage= 599 cf

Plug-Flow detention time= 400.4 min calculated for 0.031 af (100% of inflow)
 Center-of-Mass det. time= 400.5 min (1,152.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.03 cfs @ 12.86 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.02 cfs @ 0.52 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 4.4L: Sub 4.4 Res

Inflow Area = 0.253 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.08 cfs @ 13.05 hrs, Volume= 0.084 af
 Primary = 0.08 cfs @ 13.05 hrs, Volume= 0.084 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 4.4

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 12

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 69: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 70: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 71: 4000 Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.60 cfs 0.056 af

Pond P69: BIO Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P70: BIO Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P71: BIO Peak Elev=1,686.77' Storage=767 cf Inflow=0.60 cfs 0.056 af
Outflow=0.39 cfs 0.056 af

Link 4.4L: Sub 4.4 Res Inflow=1.04 cfs 0.155 af
Primary=1.04 cfs 0.155 af

Total Runoff Area = 0.253 ac Runoff Volume = 0.155 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.253 ac

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 13

Summary for Subcatchment 69: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 70: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 71: 4000

Runoff = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 14

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

Summary for Pond P69: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume = 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af, Atten = 38%, Lag = 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.76' @ 12.14 hrs Surf.Area = 1,084 sf Storage = 683 cf

Plug-Flow detention time = 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time = 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.32 cfs @ 12.14 hrs HW = 1,686.75' (Free Discharge)
 1 = **Orifice/Grate** (Weir Controls 0.31 cfs @ 1.29 fps)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P70: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume = 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af, Atten = 38%, Lag = 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.76' @ 12.14 hrs Surf.Area = 1,084 sf Storage = 683 cf

Plug-Flow detention time = 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time = 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 4.4

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 15

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P71: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af
 Outflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 36%, Lag= 5.3 min
 Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.77' @ 12.13 hrs Surf.Area= 1,154 sf Storage= 767 cf

Plug-Flow detention time= 291.5 min calculated for 0.056 af (100% of inflow)
 Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.38 cfs @ 12.13 hrs HW=1,686.77' (Free Discharge)

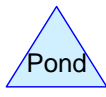
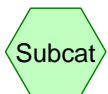
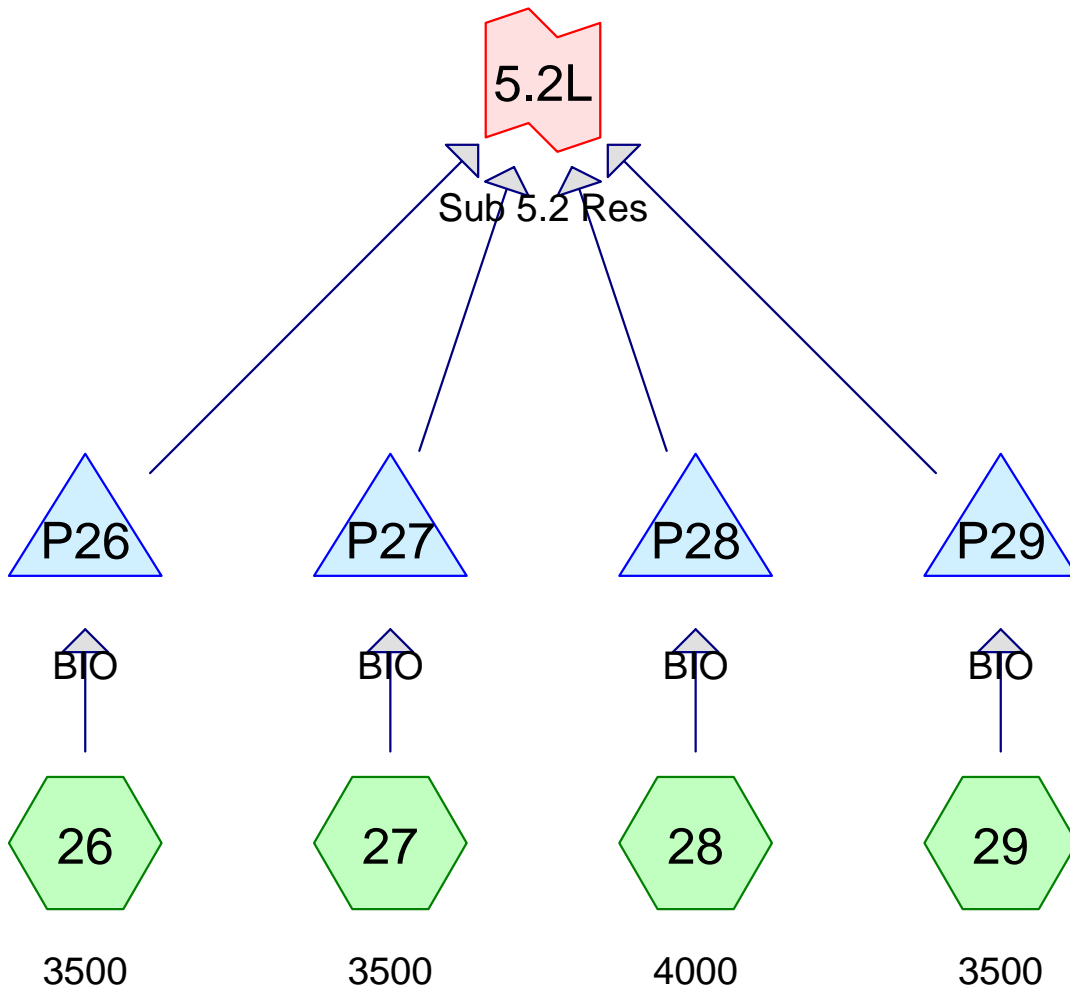
1=Orifice/Grate (Weir Controls 0.37 cfs @ 1.36 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 4.4L: Sub 4.4 Res

Inflow Area = 0.253 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.04 cfs @ 12.13 hrs, Volume= 0.155 af
 Primary = 1.04 cfs @ 12.13 hrs, Volume= 0.155 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 5.2
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.092	98	Driveway, extra imperv., HSG C (26, 27, 28, 29)
0.241	98	Roofs, HSG C (26, 27, 28, 29)
0.333	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.333	HSG C	26, 27, 28, 29
0.000	HSG D	
0.000	Other	
0.333		TOTAL AREA

08077_Sub 5.2

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 26: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 27: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 28: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.23 cfs 0.016 af
Subcatchment 29: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Pond P26: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P27: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P28: BIO	Peak Elev=1,686.34' Storage=300 cf Inflow=0.23 cfs 0.016 af Outflow=0.01 cfs 0.016 af
Pond P29: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Link 5.2L: Sub 5.2 Res	Inflow=0.04 cfs 0.059 af Primary=0.04 cfs 0.059 af

Total Runoff Area = 0.333 ac Runoff Volume = 0.059 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.333 ac

Summary for Subcatchment 26: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 27: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 28: 4000

Runoff = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 29: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P26: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P27: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P28: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af
 Outflow = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af, Atten= 95%, Lag= 98.4 min
 Primary = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.34' @ 13.68 hrs Surf.Area= 967 sf Storage= 300 cf

Plug-Flow detention time= 232.2 min calculated for 0.016 af (100% of inflow)
 Center-of-Mass det. time= 232.1 min (998.3 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

08077_Sub 5.2

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 8

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.68 hrs HW=1,686.33' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P29: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 5.2L: Sub 5.2 Res

Inflow Area = 0.333 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.04 cfs @ 13.61 hrs, Volume= 0.059 af
 Primary = 0.04 cfs @ 13.61 hrs, Volume= 0.059 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 5.2

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 9

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 26: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 27: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 28: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.38 cfs 0.031 af
Subcatchment 29: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Pond P26: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P27: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P28: BIO	Peak Elev=1,686.62' Storage=599 cf Inflow=0.38 cfs 0.031 af Outflow=0.03 cfs 0.031 af
Pond P29: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Link 5.2L: Sub 5.2 Res	Inflow=0.10 cfs 0.111 af Primary=0.10 cfs 0.111 af

Total Runoff Area = 0.333 ac Runoff Volume = 0.111 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.333 ac

Summary for Subcatchment 26: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 27: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 28: 4000

Runoff = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 11

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

Summary for Subcatchment 29: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P26: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

- 1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P27: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P28: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af
 Outflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 91%, Lag= 49.3 min
 Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 12.86 hrs Surf.Area= 1,091 sf Storage= 599 cf

Plug-Flow detention time= 400.4 min calculated for 0.031 af (100% of inflow)
 Center-of-Mass det. time= 400.5 min (1,152.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 13

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.03 cfs @ 12.86 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.02 cfs @ 0.52 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P29: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 5.2L: Sub 5.2 Res

Inflow Area = 0.333 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.10 cfs @ 13.07 hrs, Volume= 0.111 af
 Primary = 0.10 cfs @ 13.07 hrs, Volume= 0.111 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 14

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 26: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 27: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 28: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.60 cfs 0.056 af
Subcatchment 29: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Pond P26: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P27: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P28: BIO	Peak Elev=1,686.77' Storage=767 cf Inflow=0.60 cfs 0.056 af Outflow=0.39 cfs 0.056 af
Pond P29: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Link 5.2L: Sub 5.2 Res	Inflow=1.37 cfs 0.204 af Primary=1.37 cfs 0.204 af

Total Runoff Area = 0.333 ac Runoff Volume = 0.204 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.333 ac

Summary for Subcatchment 26: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 27: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 28: 4000

Runoff = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 16

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

Summary for Subcatchment 29: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P26: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

- 1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P27: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P28: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af
 Outflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 36%, Lag= 5.3 min
 Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.77' @ 12.13 hrs Surf.Area= 1,154 sf Storage= 767 cf

Plug-Flow detention time= 291.5 min calculated for 0.056 af (100% of inflow)
 Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

08077_Sub 5.2

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 18

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.38 cfs @ 12.13 hrs HW=1,686.77' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.37 cfs @ 1.36 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P29: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

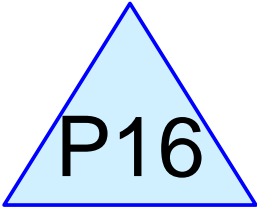
Summary for Link 5.2L: Sub 5.2 Res

Inflow Area = 0.333 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.37 cfs @ 12.13 hrs, Volume= 0.204 af
 Primary = 1.37 cfs @ 12.13 hrs, Volume= 0.204 af, Atten= 0%, Lag= 0.0 min

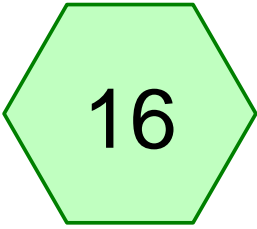
Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



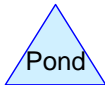
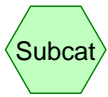
Sub 8.1 Res



BIO



3500



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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.023	98	Driveway, extra imperv., HSG C (16)
0.057	98	Roofs, HSG C (16)
0.080	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.080	HSG C	16
0.000	HSG D	
0.000	Other	
0.080		TOTAL AREA

08077_Sub 8.1

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 16: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Pond P16: BIO

Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Link 8.1L: Sub 8.1 Res

Inflow=0.01 cfs 0.014 af
Primary=0.01 cfs 0.014 af

Total Runoff Area = 0.080 ac Runoff Volume = 0.014 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.080 ac

Summary for Subcatchment 16: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P16: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 8.1L: Sub 8.1 Res

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af
Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 7

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 16: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"

Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Pond P16: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af

Outflow=0.02 cfs 0.027 af

Link 8.1L: Sub 8.1 Res

Inflow=0.02 cfs 0.027 af

Primary=0.02 cfs 0.027 af

Total Runoff Area = 0.080 ac Runoff Volume = 0.027 af Average Runoff Depth = 4.00"

0.00% Pervious = 0.000 ac 100.00% Impervious = 0.080 ac

Summary for Subcatchment 16: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P16: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 8.1L: Sub 8.1 Res

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af
Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 8.1

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 10

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 16: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"

Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Pond P16: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af

Outflow=0.33 cfs 0.049 af

Link 8.1L: Sub 8.1 Res

Inflow=0.33 cfs 0.049 af

Primary=0.33 cfs 0.049 af

Total Runoff Area = 0.080 ac Runoff Volume = 0.049 af Average Runoff Depth = 7.37"

0.00% Pervious = 0.000 ac 100.00% Impervious = 0.080 ac

Summary for Subcatchment 16: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P16: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event

Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af

Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min

Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

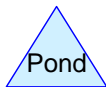
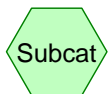
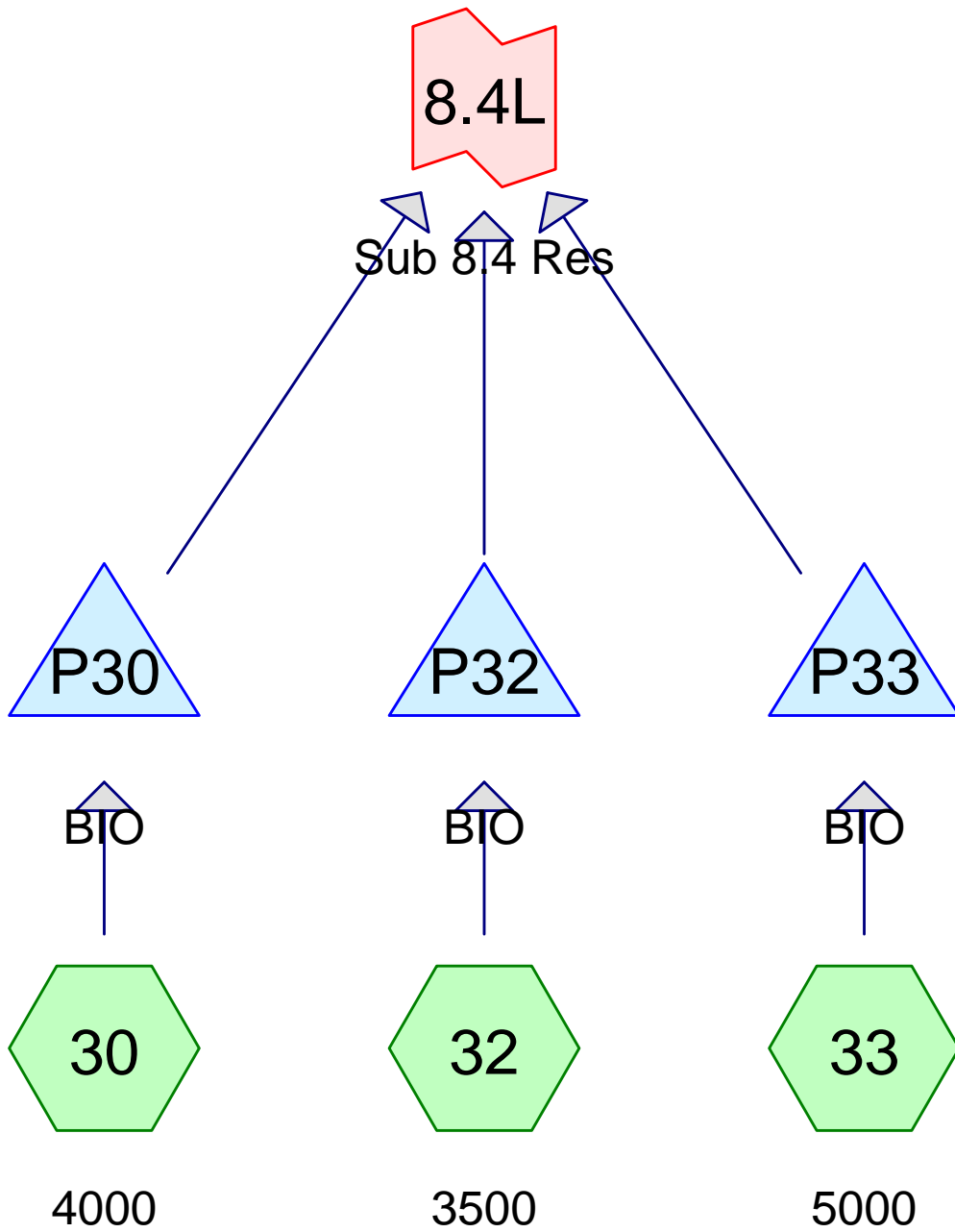
1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 8.1L: Sub 8.1 Res

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af
Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 8.4
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.069	98	Driveway, extra imperv., HSG C (30, 32, 33)
0.218	98	Roofs, HSG C (30, 32, 33)
0.287	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.287	HSG C	30, 32, 33
0.000	HSG D	
0.000	Other	
0.287		TOTAL AREA

08077_Sub 8.4

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 30: 4000 Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.23 cfs 0.016 af

Subcatchment 32: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 33: 5000 Runoff Area=5,000 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.29 cfs 0.020 af

Pond P30: BIO Peak Elev=1,686.34' Storage=300 cf Inflow=0.23 cfs 0.016 af
Outflow=0.01 cfs 0.016 af

Pond P32: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P33: BIO Peak Elev=1,686.35' Storage=386 cf Inflow=0.29 cfs 0.020 af
Outflow=0.01 cfs 0.020 af

Link 8.4L: Sub 8.4 Res Inflow=0.04 cfs 0.051 af
Primary=0.04 cfs 0.051 af

Total Runoff Area = 0.287 ac Runoff Volume = 0.051 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.287 ac

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 5

Summary for Subcatchment 30: 4000

Runoff = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 32: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 33: 5000

Runoff = 0.29 cfs @ 12.04 hrs, Volume= 0.020 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,000	98	Weighted Average
5,000		100.00% Impervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 6

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

Summary for Pond P30: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.23 cfs @ 12.04 hrs, Volume = 0.016 af
 Outflow = 0.01 cfs @ 13.68 hrs, Volume = 0.016 af, Atten = 95%, Lag = 98.4 min
 Primary = 0.01 cfs @ 13.68 hrs, Volume = 0.016 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.34' @ 13.68 hrs Surf.Area = 967 sf Storage = 300 cf

Plug-Flow detention time = 232.2 min calculated for 0.016 af (100% of inflow)
 Center-of-Mass det. time = 232.1 min (998.3 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.01 cfs @ 13.68 hrs HW = 1,686.33' (Free Discharge)
 1 = **Orifice/Grate** (Controls 0.00 cfs)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P32: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume = 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af, Atten = 95%, Lag = 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.32' @ 13.59 hrs Surf.Area = 879 sf Storage = 260 cf

Plug-Flow detention time = 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time = 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P33: BIO

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.29 cfs @ 12.04 hrs, Volume= 0.020 af
 Outflow = 0.01 cfs @ 13.71 hrs, Volume= 0.020 af, Atten= 95%, Lag= 100.1 min
 Primary = 0.01 cfs @ 13.71 hrs, Volume= 0.020 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.35' @ 13.71 hrs Surf.Area= 1,194 sf Storage= 386 cf

Plug-Flow detention time= 247.7 min calculated for 0.020 af (100% of inflow)
 Center-of-Mass det. time= 247.7 min (1,013.9 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,025 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,025	0	0
1,688.00	2,000	3,025	3,025

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.71 hrs HW=1,686.35' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 8.4L: Sub 8.4 Res

Inflow Area = 0.287 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.04 cfs @ 13.66 hrs, Volume= 0.051 af
 Primary = 0.04 cfs @ 13.66 hrs, Volume= 0.051 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 8.4

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 8

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 30: 4000

Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.38 cfs 0.031 af

Subcatchment 32: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 33: 5000

Runoff Area=5,000 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.48 cfs 0.038 af

Pond P30: BIO

Peak Elev=1,686.62' Storage=599 cf Inflow=0.38 cfs 0.031 af
Outflow=0.03 cfs 0.031 af

Pond P32: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P33: BIO

Peak Elev=1,686.63' Storage=747 cf Inflow=0.48 cfs 0.038 af
Outflow=0.05 cfs 0.038 af

Link 8.4L: Sub 8.4 Res

Inflow=0.10 cfs 0.096 af
Primary=0.10 cfs 0.096 af

Total Runoff Area = 0.287 ac Runoff Volume = 0.096 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.287 ac

Summary for Subcatchment 30: 4000

Runoff = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 32: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 33: 5000

Runoff = 0.48 cfs @ 12.04 hrs, Volume= 0.038 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,000	98	Weighted Average
5,000		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 10

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

Summary for Pond P30: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af
 Outflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 91%, Lag= 49.3 min
 Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 12.86 hrs Surf.Area= 1,091 sf Storage= 599 cf

Plug-Flow detention time= 400.4 min calculated for 0.031 af (100% of inflow)
 Center-of-Mass det. time= 400.5 min (1,152.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.03 cfs @ 12.86 hrs HW=1,686.62' (Free Discharge)
 1=Orifice/Grate (Weir Controls 0.02 cfs @ 0.52 fps)
 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P32: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 11

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P33: BIO

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.48 cfs @ 12.04 hrs, Volume= 0.038 af
 Outflow = 0.05 cfs @ 12.73 hrs, Volume= 0.038 af, Atten= 90%, Lag= 41.7 min
 Primary = 0.05 cfs @ 12.73 hrs, Volume= 0.038 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.63' @ 12.73 hrs Surf.Area= 1,334 sf Storage= 747 cf

Plug-Flow detention time= 401.3 min calculated for 0.038 af (100% of inflow)
 Center-of-Mass det. time= 401.4 min (1,153.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,025 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,025	0	0
1,688.00	2,000	3,025	3,025

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.05 cfs @ 12.73 hrs HW=1,686.63' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.03 cfs @ 0.59 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 8.4L: Sub 8.4 Res

Inflow Area = 0.287 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.10 cfs @ 12.90 hrs, Volume= 0.096 af
 Primary = 0.10 cfs @ 12.90 hrs, Volume= 0.096 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 8.4

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 12

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 30: 4000

Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.60 cfs 0.056 af

Subcatchment 32: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 33: 5000

Runoff Area=5,000 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.75 cfs 0.071 af

Pond P30: BIO

Peak Elev=1,686.77' Storage=767 cf Inflow=0.60 cfs 0.056 af
Outflow=0.39 cfs 0.056 af

Pond P32: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P33: BIO

Peak Elev=1,686.80' Storage=978 cf Inflow=0.75 cfs 0.071 af
Outflow=0.44 cfs 0.070 af

Link 8.4L: Sub 8.4 Res

Inflow=1.16 cfs 0.176 af
Primary=1.16 cfs 0.176 af

Total Runoff Area = 0.287 ac Runoff Volume = 0.176 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.287 ac

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 13

Summary for Subcatchment 30: 4000

Runoff = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 32: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 33: 5000

Runoff = 0.75 cfs @ 12.04 hrs, Volume= 0.071 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,000	98	Weighted Average
5,000		100.00% Impervious Area

08077_Sub 8.4

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 14

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

Summary for Pond P30: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af
 Outflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 36%, Lag= 5.3 min
 Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.77' @ 12.13 hrs Surf.Area= 1,154 sf Storage= 767 cf

Plug-Flow detention time= 291.5 min calculated for 0.056 af (100% of inflow)
 Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.38 cfs @ 12.13 hrs HW=1,686.77' (Free Discharge)
 1=Orifice/Grate (Weir Controls 0.37 cfs @ 1.36 fps)
 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P32: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 8.4

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 15

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P33: BIO

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.75 cfs @ 12.04 hrs, Volume= 0.071 af
 Outflow = 0.44 cfs @ 12.15 hrs, Volume= 0.070 af, Atten= 42%, Lag= 6.5 min
 Primary = 0.44 cfs @ 12.15 hrs, Volume= 0.070 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.80' @ 12.15 hrs Surf.Area= 1,416 sf Storage= 978 cf

Plug-Flow detention time= 291.5 min calculated for 0.070 af (100% of inflow)
 Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,025 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,025	0	0
1,688.00	2,000	3,025	3,025

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.44 cfs @ 12.15 hrs HW=1,686.80' (Free Discharge)

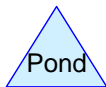
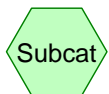
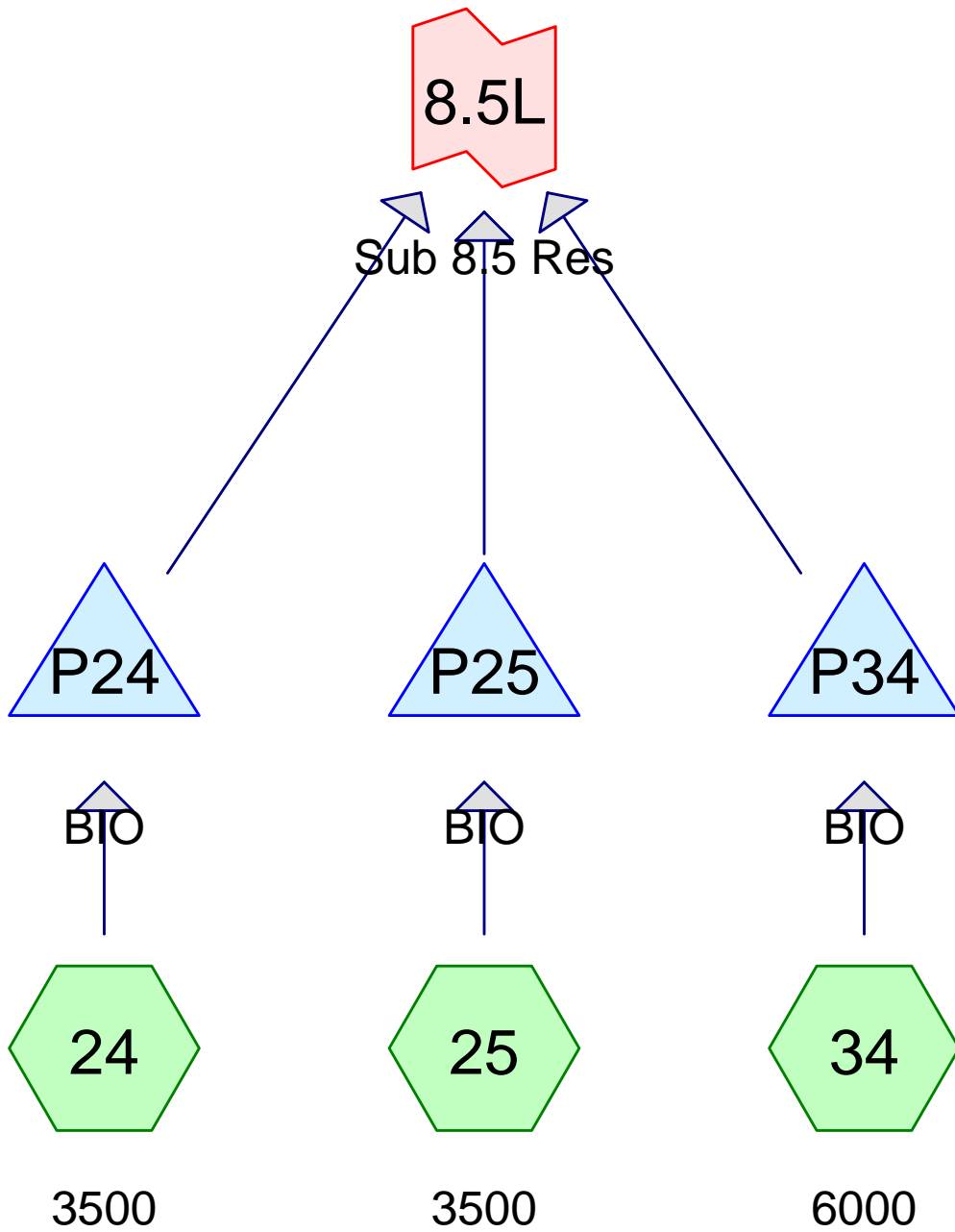
1=Orifice/Grate (Orifice Controls 0.42 cfs @ 2.16 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 8.4L: Sub 8.4 Res

Inflow Area = 0.287 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.16 cfs @ 12.14 hrs, Volume= 0.176 af
 Primary = 1.16 cfs @ 12.14 hrs, Volume= 0.176 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 8.5
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.069	98	Driveway, extra imperv., HSG C (24, 25, 34)
0.230	98	Roofs, HSG C (24, 25, 34)
0.298	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.298	HSG C	24, 25, 34
0.000	HSG D	
0.000	Other	
0.298		TOTAL AREA

08077_Sub 8.5

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 24: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 25: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 34: 6000 Runoff Area=6,000 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.34 cfs 0.025 af

Pond P24: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P25: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P34: BIO Peak Elev=1,686.37' Storage=471 cf Inflow=0.34 cfs 0.025 af
Outflow=0.02 cfs 0.025 af

Link 8.5L: Sub 8.5 Res Inflow=0.04 cfs 0.053 af
Primary=0.04 cfs 0.053 af

Total Runoff Area = 0.298 ac Runoff Volume = 0.053 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.298 ac

Summary for Subcatchment 24: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 25: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 34: 6000

Runoff = 0.34 cfs @ 12.04 hrs, Volume= 0.025 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
5,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
6,000	98	Weighted Average
6,000		100.00% Impervious Area

08077_Sub 8.5

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 6

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

Summary for Pond P24: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume = 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af, Atten = 95%, Lag = 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.32' @ 13.59 hrs Surf.Area = 879 sf Storage = 260 cf

Plug-Flow detention time = 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time = 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.01 cfs @ 13.59 hrs HW = 1,686.32' (Free Discharge)
 1 = **Orifice/Grate** (Controls 0.00 cfs)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P25: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume = 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af, Atten = 95%, Lag = 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.32' @ 13.59 hrs Surf.Area = 879 sf Storage = 260 cf

Plug-Flow detention time = 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time = 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 8.5

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P34: BIO

Inflow Area = 0.138 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.34 cfs @ 12.04 hrs, Volume= 0.025 af
 Outflow = 0.02 cfs @ 13.86 hrs, Volume= 0.025 af, Atten= 95%, Lag= 109.3 min
 Primary = 0.02 cfs @ 13.86 hrs, Volume= 0.025 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.37' @ 13.86 hrs Surf.Area= 1,348 sf Storage= 471 cf

Plug-Flow detention time= 268.4 min calculated for 0.025 af (100% of inflow)
 Center-of-Mass det. time= 268.4 min (1,034.6 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,200 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,200	0	0
1,688.00	2,000	3,200	3,200

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.86 hrs HW=1,686.37' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 8.5L: Sub 8.5 Res

Inflow Area = 0.298 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.04 cfs @ 13.67 hrs, Volume= 0.053 af
 Primary = 0.04 cfs @ 13.67 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 8.5

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 8

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 24: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 25: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 34: 6000

Runoff Area=6,000 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.57 cfs 0.046 af

Pond P24: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P25: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P34: BIO

Peak Elev=1,686.65' Storage=870 cf Inflow=0.57 cfs 0.046 af
Outflow=0.08 cfs 0.046 af

Link 8.5L: Sub 8.5 Res

Inflow=0.11 cfs 0.100 af
Primary=0.11 cfs 0.100 af

Total Runoff Area = 0.298 ac Runoff Volume = 0.100 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.298 ac

Summary for Subcatchment 24: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 25: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 34: 6000

Runoff = 0.57 cfs @ 12.04 hrs, Volume= 0.046 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
5,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
6,000	98	Weighted Average
6,000		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 10

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

Summary for Pond P24: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume = 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af, Atten = 93%, Lag = 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.62' @ 13.15 hrs Surf.Area = 1,018 sf Storage = 538 cf

Plug-Flow detention time = 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time = 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.02 cfs @ 13.15 hrs HW = 1,686.62' (Free Discharge)
 1 = **Orifice/Grate** (Weir Controls 0.01 cfs @ 0.43 fps)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P25: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume = 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af, Atten = 93%, Lag = 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.62' @ 13.15 hrs Surf.Area = 1,018 sf Storage = 538 cf

Plug-Flow detention time = 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time = 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 8.5

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 11

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P34: BIO

Inflow Area = 0.138 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.57 cfs @ 12.04 hrs, Volume= 0.046 af
 Outflow = 0.08 cfs @ 12.61 hrs, Volume= 0.046 af, Atten= 86%, Lag= 34.0 min
 Primary = 0.08 cfs @ 12.61 hrs, Volume= 0.046 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.65' @ 12.61 hrs Surf.Area= 1,461 sf Storage= 870 cf

Plug-Flow detention time= 394.7 min calculated for 0.046 af (100% of inflow)
 Center-of-Mass det. time= 394.6 min (1,146.8 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,200 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,200	0	0
1,688.00	2,000	3,200	3,200

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.08 cfs @ 12.61 hrs HW=1,686.65' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.06 cfs @ 0.76 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 8.5L: Sub 8.5 Res

Inflow Area = 0.298 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.11 cfs @ 12.85 hrs, Volume= 0.100 af
 Primary = 0.11 cfs @ 12.85 hrs, Volume= 0.100 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 8.5

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 12

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 24: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 25: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 34: 6000 Runoff Area=6,000 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.91 cfs 0.085 af

Pond P24: BIO Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P25: BIO Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P34: BIO Peak Elev=1,686.85' Storage=1,164 cf Inflow=0.91 cfs 0.085 af
Outflow=0.49 cfs 0.085 af

Link 8.5L: Sub 8.5 Res Inflow=1.14 cfs 0.183 af
Primary=1.14 cfs 0.183 af

Total Runoff Area = 0.298 ac Runoff Volume = 0.183 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.298 ac

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 13

Summary for Subcatchment 24: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 25: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 34: 6000

Runoff = 0.91 cfs @ 12.04 hrs, Volume= 0.085 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
5,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
6,000	98	Weighted Average
6,000		100.00% Impervious Area

08077_Sub 8.5

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 14

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

Summary for Pond P24: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume = 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af, Atten = 38%, Lag = 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.76' @ 12.14 hrs Surf.Area = 1,084 sf Storage = 683 cf

Plug-Flow detention time = 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time = 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.32 cfs @ 12.14 hrs HW = 1,686.75' (Free Discharge)
 1 = **Orifice/Grate** (Weir Controls 0.31 cfs @ 1.29 fps)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P25: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume = 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af, Atten = 38%, Lag = 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.76' @ 12.14 hrs Surf.Area = 1,084 sf Storage = 683 cf

Plug-Flow detention time = 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time = 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 8.5

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 15

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P34: BIO

Inflow Area = 0.138 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.91 cfs @ 12.04 hrs, Volume= 0.085 af
 Outflow = 0.49 cfs @ 12.16 hrs, Volume= 0.085 af, Atten= 46%, Lag= 7.3 min
 Primary = 0.49 cfs @ 12.16 hrs, Volume= 0.085 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.85' @ 12.16 hrs Surf.Area= 1,540 sf Storage= 1,164 cf

Plug-Flow detention time= 282.3 min calculated for 0.085 af (100% of inflow)
 Center-of-Mass det. time= 282.0 min (1,024.3 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,200 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,200	0	0
1,688.00	2,000	3,200	3,200

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.49 cfs @ 12.16 hrs HW=1,686.85' (Free Discharge)

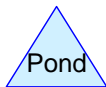
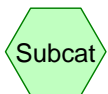
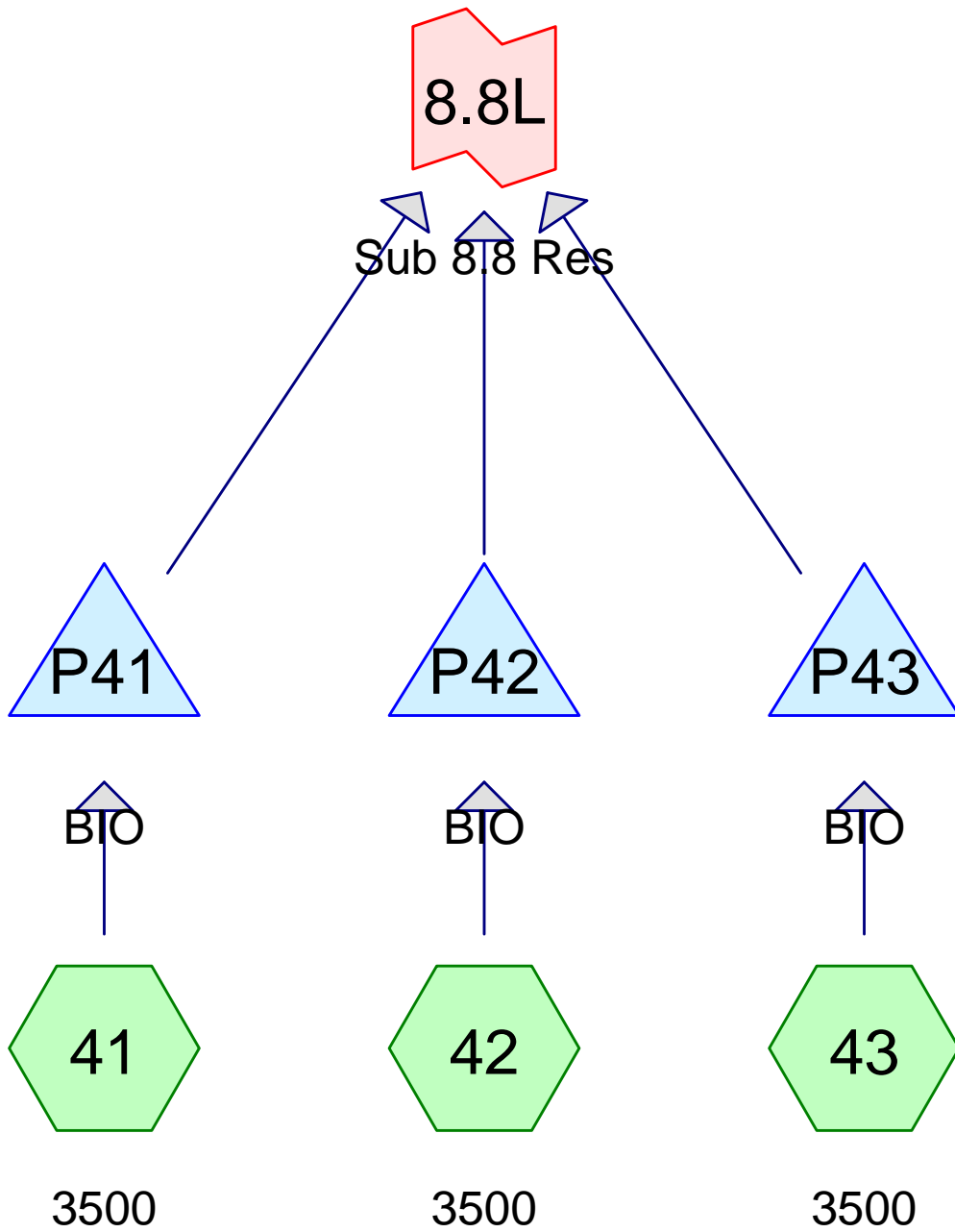
1=Orifice/Grate (Orifice Controls 0.47 cfs @ 2.40 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Link 8.5L: Sub 8.5 Res

Inflow Area = 0.298 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.14 cfs @ 12.14 hrs, Volume= 0.183 af
 Primary = 1.14 cfs @ 12.14 hrs, Volume= 0.183 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 8.8
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.069	98	Driveway, extra imperv., HSG C (41, 42, 43)
0.172	98	Roofs, HSG C (41, 42, 43)
0.241	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.241	HSG C	41, 42, 43
0.000	HSG D	
0.000	Other	
0.241		TOTAL AREA

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 41: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 42: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 43: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Pond P41: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P42: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P43: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Link 8.8L: Sub 8.8 Res Inflow=0.03 cfs 0.043 af
Primary=0.03 cfs 0.043 af

Total Runoff Area = 0.241 ac Runoff Volume = 0.043 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.241 ac

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 5

Summary for Subcatchment 41: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 42: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 43: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 6

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

Summary for Pond P41: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume = 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af, Atten = 95%, Lag = 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.32' @ 13.59 hrs Surf.Area = 879 sf Storage = 260 cf

Plug-Flow detention time = 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time = 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.01 cfs @ 13.59 hrs HW = 1,686.32' (Free Discharge)
 1 = **Orifice/Grate** (Controls 0.00 cfs)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P42: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume = 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af, Atten = 95%, Lag = 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.32' @ 13.59 hrs Surf.Area = 879 sf Storage = 260 cf

Plug-Flow detention time = 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time = 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 8.8

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P43: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 8.8L: Sub 8.8 Res

Inflow Area = 0.241 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.03 cfs @ 13.59 hrs, Volume= 0.043 af
 Primary = 0.03 cfs @ 13.59 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 8.8

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 8

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 41: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 42: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 43: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Pond P41: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P42: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P43: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Link 8.8L: Sub 8.8 Res

Inflow=0.07 cfs 0.080 af
Primary=0.07 cfs 0.080 af

Total Runoff Area = 0.241 ac Runoff Volume = 0.080 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.241 ac

Summary for Subcatchment 41: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 42: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 43: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 10

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

Summary for Pond P41: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume = 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af, Atten = 93%, Lag = 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.62' @ 13.15 hrs Surf.Area = 1,018 sf Storage = 538 cf

Plug-Flow detention time = 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time = 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.02 cfs @ 13.15 hrs HW = 1,686.62' (Free Discharge)
 1 = **Orifice/Grate** (Weir Controls 0.01 cfs @ 0.43 fps)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P42: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume = 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af, Atten = 93%, Lag = 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.62' @ 13.15 hrs Surf.Area = 1,018 sf Storage = 538 cf

Plug-Flow detention time = 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time = 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 8.8

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 11

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P43: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 8.8L: Sub 8.8 Res

Inflow Area = 0.241 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.07 cfs @ 13.15 hrs, Volume= 0.080 af
 Primary = 0.07 cfs @ 13.15 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 12

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 41: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 42: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 43: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Pond P41: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P42: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P43: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Link 8.8L: Sub 8.8 Res

Inflow=0.98 cfs 0.148 af
Primary=0.98 cfs 0.148 af

Total Runoff Area = 0.241 ac Runoff Volume = 0.148 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.241 ac

Summary for Subcatchment 41: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 42: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 43: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 14

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

Summary for Pond P41: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume = 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af, Atten = 38%, Lag = 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.76' @ 12.14 hrs Surf.Area = 1,084 sf Storage = 683 cf

Plug-Flow detention time = 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time = 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.32 cfs @ 12.14 hrs HW = 1,686.75' (Free Discharge)
 1 = **Orifice/Grate** (Weir Controls 0.31 cfs @ 1.29 fps)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P42: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume = 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af, Atten = 38%, Lag = 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.76' @ 12.14 hrs Surf.Area = 1,084 sf Storage = 683 cf

Plug-Flow detention time = 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time = 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 8.8

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 15

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P43: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

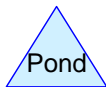
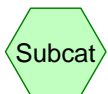
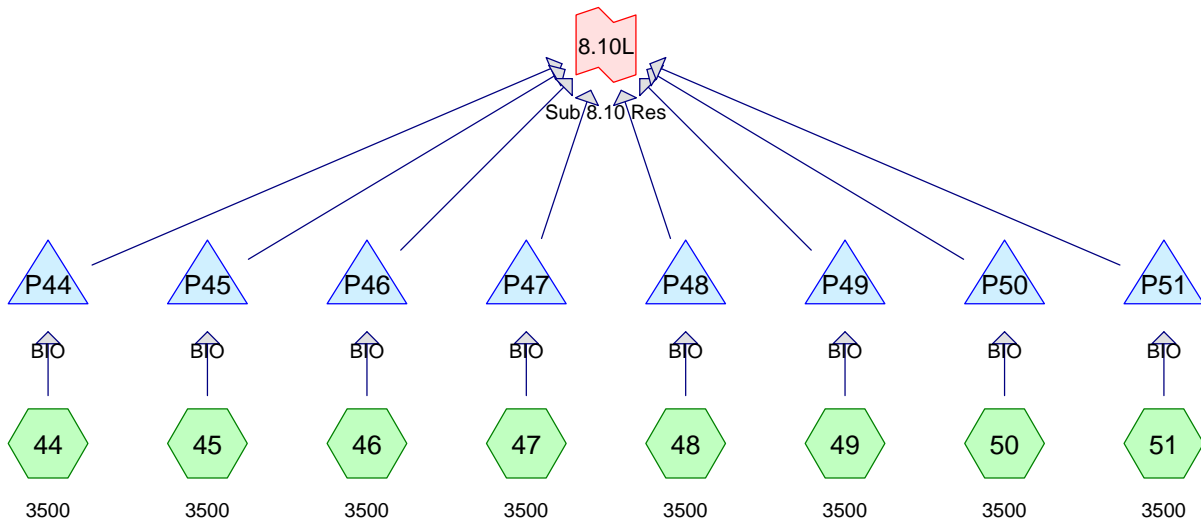
1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 8.8L: Sub 8.8 Res

Inflow Area = 0.241 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.98 cfs @ 12.14 hrs, Volume= 0.148 af
 Primary = 0.98 cfs @ 12.14 hrs, Volume= 0.148 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 8.10
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.184	98	Driveway, extra imperv., HSG C (44, 45, 46, 47, 48, 49, 50, 51)
0.459	98	Roofs, HSG C (44, 45, 46, 47, 48, 49, 50, 51)
0.643	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.643	HSG C	44, 45, 46, 47, 48, 49, 50, 51
0.000	HSG D	
0.000	Other	
0.643		TOTAL AREA

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 44: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 45: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 46: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 47: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 48: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 49: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 50: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 51: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Pond P44: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P45: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P46: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P47: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P48: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P49: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P50: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P51: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af

08077_Sub 8.10

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 5

Link 8.10L: Sub 8.10 Res

Inflow=0.08 cfs 0.115 af

Primary=0.08 cfs 0.115 af

Total Runoff Area = 0.643 ac Runoff Volume = 0.115 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.643 ac

Summary for Subcatchment 44: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 45: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 46: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 47: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 48: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 49: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 50: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 51: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P44: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P45: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P46: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P47: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 11

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P48: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P49: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P50: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P51: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 8.10L: Sub 8.10 Res

Inflow Area = 0.643 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.08 cfs @ 13.59 hrs, Volume= 0.115 af
 Primary = 0.08 cfs @ 13.59 hrs, Volume= 0.115 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 44: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 45: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 46: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 47: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 48: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 49: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 50: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 51: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Pond P44: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P45: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P46: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P47: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P48: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P49: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P50: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P51: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af

08077_Sub 8.10

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 15

Link 8.10L: Sub 8.10 Res

Inflow=0.19 cfs 0.215 af

Primary=0.19 cfs 0.215 af

Total Runoff Area = 0.643 ac Runoff Volume = 0.215 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.643 ac

Summary for Subcatchment 44: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 45: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 46: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 17

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

Summary for Subcatchment 47: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 48: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 49: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 18

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 50: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 51: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P44: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P45: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P46: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P47: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 21

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P48: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P49: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P50: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 23

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P51: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 8.10L: Sub 8.10 Res

Inflow Area = 0.643 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.19 cfs @ 13.15 hrs, Volume= 0.215 af
 Primary = 0.19 cfs @ 13.15 hrs, Volume= 0.215 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 44: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 45: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 46: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 47: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 48: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 49: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 50: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 51: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Pond P44: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P45: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P46: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P47: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P48: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P49: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P50: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P51: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af

08077_Sub 8.10

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 25

Link 8.10L: Sub 8.10 Res

Inflow=2.62 cfs 0.395 af

Primary=2.62 cfs 0.395 af

Total Runoff Area = 0.643 ac Runoff Volume = 0.395 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.643 ac

Summary for Subcatchment 44: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 45: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 46: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 47: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 48: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 49: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 50: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 51: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P44: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P45: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P46: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P47: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 31

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P48: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P49: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P50: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 33

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

↑1=**Orifice/Grate** (Weir Controls 0.31 cfs @ 1.29 fps)

↑2=**Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P51: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

↑1=**Orifice/Grate** (Weir Controls 0.31 cfs @ 1.29 fps)

↑2=**Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Link 8.10L: Sub 8.10 Res

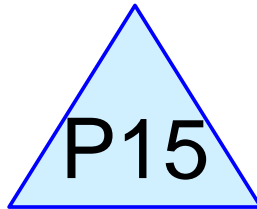
Inflow Area = 0.643 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 2.62 cfs @ 12.14 hrs, Volume= 0.395 af
 Primary = 2.62 cfs @ 12.14 hrs, Volume= 0.395 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



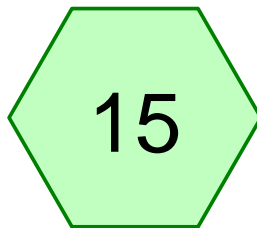
8.11L

Sub 8.11 Res



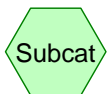
P15

BIO



15

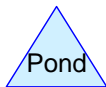
3500



Subcat



Reach



Pond



Link

Routing Diagram for 08077_Sub 8.11

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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.023	98	Driveway, extra imperv., HSG C (15)
0.057	98	Roofs, HSG C (15)
0.080	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.080	HSG C	15
0.000	HSG D	
0.000	Other	
0.080		TOTAL AREA

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 15: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"

Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Pond P15: BIO

Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af

Outflow=0.01 cfs 0.014 af

Link 8.11L: Sub 8.11 Res

Inflow=0.01 cfs 0.014 af

Primary=0.01 cfs 0.014 af

Total Runoff Area = 0.080 ac Runoff Volume = 0.014 af Average Runoff Depth = 2.14"

0.00% Pervious = 0.000 ac 100.00% Impervious = 0.080 ac

Summary for Subcatchment 15: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P15: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 8.11L: Sub 8.11 Res

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af
Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 8.11

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 7

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 15: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Pond P15: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Link 8.11L: Sub 8.11 Res

Inflow=0.02 cfs 0.027 af
Primary=0.02 cfs 0.027 af

Total Runoff Area = 0.080 ac Runoff Volume = 0.027 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.080 ac

Summary for Subcatchment 15: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P15: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 8.11L: Sub 8.11 Res

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af
Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 8.11

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 10

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 15: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"

Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Pond P15: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af

Outflow=0.33 cfs 0.049 af

Link 8.11L: Sub 8.11 Res

Inflow=0.33 cfs 0.049 af

Primary=0.33 cfs 0.049 af

Total Runoff Area = 0.080 ac Runoff Volume = 0.049 af Average Runoff Depth = 7.37"

0.00% Pervious = 0.000 ac 100.00% Impervious = 0.080 ac

Summary for Subcatchment 15: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P15: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event

Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af

Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min

Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

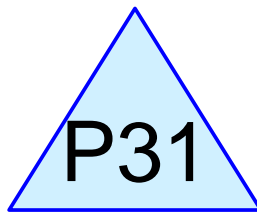
Summary for Link 8.11L: Sub 8.11 Res

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af
Primary = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af, Atten = 0%, Lag = 0.0 min

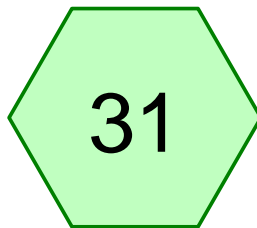
Primary outflow = Inflow, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs



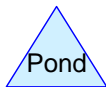
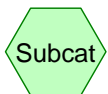
Sub 8.15 Res



BIO



3500



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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.023	98	Driveway, extra imperv., HSG C (31)
0.057	98	Roofs, HSG C (31)
0.080	98	TOTAL AREA

08077_Sub 8.15

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.080	HSG C	31
0.000	HSG D	
0.000	Other	
0.080		TOTAL AREA

08077_Sub 8.15

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 31: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Pond P31: BIO

Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Link 8.15L: Sub 8.15 Res

Inflow=0.01 cfs 0.014 af
Primary=0.01 cfs 0.014 af

Total Runoff Area = 0.080 ac Runoff Volume = 0.014 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.080 ac

Summary for Subcatchment 31: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P31: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 8.15L: Sub 8.15 Res

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af
Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 8.15

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 7

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 31: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Pond P31: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Link 8.15L: Sub 8.15 Res

Inflow=0.02 cfs 0.027 af
Primary=0.02 cfs 0.027 af

Total Runoff Area = 0.080 ac Runoff Volume = 0.027 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.080 ac

Summary for Subcatchment 31: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P31: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 8.15L: Sub 8.15 Res

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af
Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 8.15

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 10

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 31: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"

Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Pond P31: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af

Outflow=0.33 cfs 0.049 af

Link 8.15L: Sub 8.15 Res

Inflow=0.33 cfs 0.049 af

Primary=0.33 cfs 0.049 af

Total Runoff Area = 0.080 ac Runoff Volume = 0.049 af Average Runoff Depth = 7.37"

0.00% Pervious = 0.000 ac 100.00% Impervious = 0.080 ac

Summary for Subcatchment 31: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P31: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event

Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af

Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min

Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

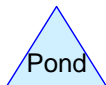
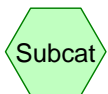
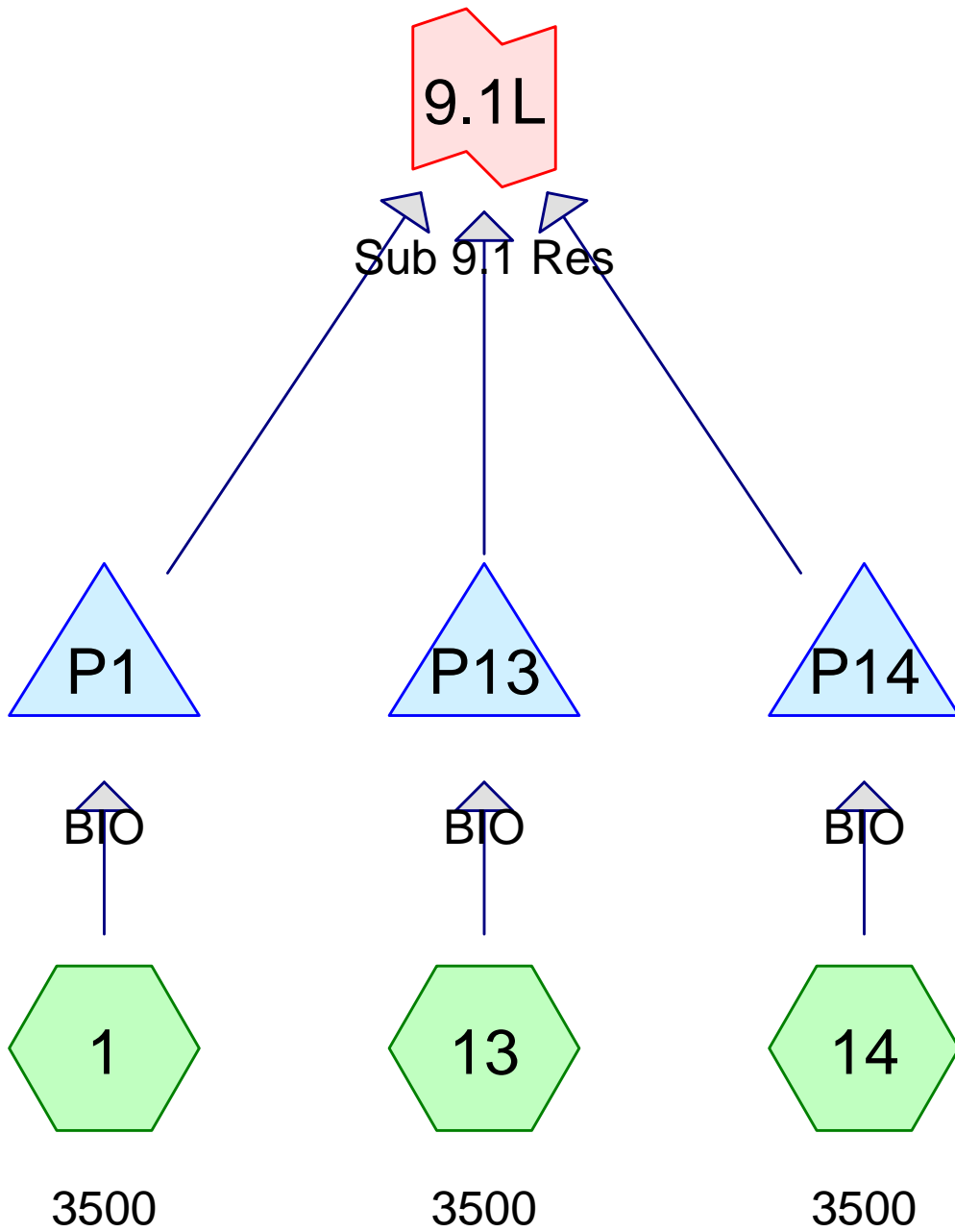
1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 8.15L: Sub 8.15 Res

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af
Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 9.1
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.069	98	Driveway, extra imperv., HSG C (1, 13, 14)
0.172	98	Roofs, HSG C (1, 13, 14)
0.241	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.241	HSG C	1, 13, 14
0.000	HSG D	
0.000	Other	
0.241		TOTAL AREA

08077_Sub 9.1

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 13: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 14: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Pond P1: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P13: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P14: BIO Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Link 9.1L: Sub 9.1 Res Inflow=0.03 cfs 0.043 af
Primary=0.03 cfs 0.043 af

Total Runoff Area = 0.241 ac Runoff Volume = 0.043 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.241 ac

Summary for Subcatchment 1: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 13: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 14: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P1: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume = 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af, Atten = 95%, Lag = 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.32' @ 13.59 hrs Surf.Area = 879 sf Storage = 260 cf

Plug-Flow detention time = 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time = 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.01 cfs @ 13.59 hrs HW = 1,686.32' (Free Discharge)
 1 = **Orifice/Grate** (Controls 0.00 cfs)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P13: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume = 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af, Atten = 95%, Lag = 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume = 0.014 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.32' @ 13.59 hrs Surf.Area = 879 sf Storage = 260 cf

Plug-Flow detention time = 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time = 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P14: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 9.1L: Sub 9.1 Res

Inflow Area = 0.241 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.03 cfs @ 13.59 hrs, Volume= 0.043 af
 Primary = 0.03 cfs @ 13.59 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 13: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 14: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Pond P1: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P13: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P14: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Link 9.1L: Sub 9.1 Res Inflow=0.07 cfs 0.080 af
Primary=0.07 cfs 0.080 af

Total Runoff Area = 0.241 ac Runoff Volume = 0.080 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.241 ac

Summary for Subcatchment 1: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 13: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 14: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 10

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

Summary for Pond P1: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume = 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af, Atten = 93%, Lag = 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.62' @ 13.15 hrs Surf.Area = 1,018 sf Storage = 538 cf

Plug-Flow detention time = 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time = 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.02 cfs @ 13.15 hrs HW = 1,686.62' (Free Discharge)
 1 = **Orifice/Grate** (Weir Controls 0.01 cfs @ 0.43 fps)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P13: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume = 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af, Atten = 93%, Lag = 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume = 0.027 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.62' @ 13.15 hrs Surf.Area = 1,018 sf Storage = 538 cf

Plug-Flow detention time = 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time = 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 11

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P14: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 9.1L: Sub 9.1 Res

Inflow Area = 0.241 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.07 cfs @ 13.15 hrs, Volume= 0.080 af
 Primary = 0.07 cfs @ 13.15 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 12

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 13: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 14: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Pond P1: BIO Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P13: BIO Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P14: BIO Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Link 9.1L: Sub 9.1 Res Inflow=0.98 cfs 0.148 af
Primary=0.98 cfs 0.148 af

Total Runoff Area = 0.241 ac Runoff Volume = 0.148 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.241 ac

Summary for Subcatchment 1: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 13: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 14: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 14

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

Summary for Pond P1: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume = 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af, Atten = 38%, Lag = 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.76' @ 12.14 hrs Surf.Area = 1,084 sf Storage = 683 cf

Plug-Flow detention time = 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time = 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C = 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max = 0.32 cfs @ 12.14 hrs HW = 1,686.75' (Free Discharge)
 1 = **Orifice/Grate** (Weir Controls 0.31 cfs @ 1.29 fps)
 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P13: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume = 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af, Atten = 38%, Lag = 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af

Routing by Stor-Ind method, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs / 2
 Peak Elev = 1,686.76' @ 12.14 hrs Surf.Area = 1,084 sf Storage = 683 cf

Plug-Flow detention time = 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time = 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

08077_Sub 9.1

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 15

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P14: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

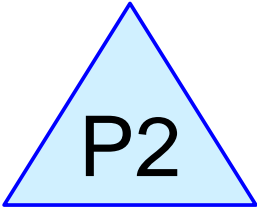
Summary for Link 9.1L: Sub 9.1 Res

Inflow Area = 0.241 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.98 cfs @ 12.14 hrs, Volume= 0.148 af
 Primary = 0.98 cfs @ 12.14 hrs, Volume= 0.148 af, Atten= 0%, Lag= 0.0 min

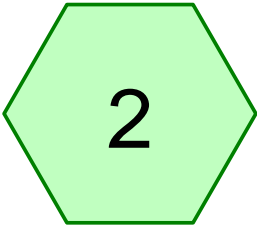
Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



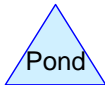
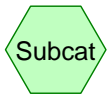
Sub 9.5 Res



BIO



4000



08077_Sub 9.5

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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.023	98	Driveway, extra imperv., HSG C (2)
0.069	98	Roofs, HSG C (2)
0.092	98	TOTAL AREA

08077_Sub 9.5

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.092	HSG C	2
0.000	HSG D	
0.000	Other	
0.092		TOTAL AREA

08077_Sub 9.5

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 2: 4000

Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.23 cfs 0.016 af

Pond P2: BIO

Peak Elev=1,686.34' Storage=300 cf Inflow=0.23 cfs 0.016 af
Outflow=0.01 cfs 0.016 af

Link 9.5L: Sub 9.5 Res

Inflow=0.01 cfs 0.016 af
Primary=0.01 cfs 0.016 af

Total Runoff Area = 0.092 ac Runoff Volume = 0.016 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.092 ac

Summary for Subcatchment 2: 4000

Runoff = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Pond P2: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af
 Outflow = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af, Atten= 95%, Lag= 98.4 min
 Primary = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.34' @ 13.68 hrs Surf.Area= 967 sf Storage= 300 cf

Plug-Flow detention time= 232.2 min calculated for 0.016 af (100% of inflow)
 Center-of-Mass det. time= 232.1 min (998.3 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.68 hrs HW=1,686.33' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 9.5L: Sub 9.5 Res

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af
Primary = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 7

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 2: 4000

Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.38 cfs 0.031 af

Pond P2: BIO

Peak Elev=1,686.62' Storage=599 cf Inflow=0.38 cfs 0.031 af
Outflow=0.03 cfs 0.031 af

Link 9.5L: Sub 9.5 Res

Inflow=0.03 cfs 0.031 af
Primary=0.03 cfs 0.031 af

Total Runoff Area = 0.092 ac Runoff Volume = 0.031 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.092 ac

Summary for Subcatchment 2: 4000

Runoff = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Pond P2: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af
 Outflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 91%, Lag= 49.3 min
 Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 12.86 hrs Surf.Area= 1,091 sf Storage= 599 cf

Plug-Flow detention time= 400.4 min calculated for 0.031 af (100% of inflow)
 Center-of-Mass det. time= 400.5 min (1,152.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.03 cfs @ 12.86 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.02 cfs @ 0.52 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 9.5L: Sub 9.5 Res

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af
Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 10

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 2: 4000

Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.60 cfs 0.056 af

Pond P2: BIO

Peak Elev=1,686.77' Storage=767 cf Inflow=0.60 cfs 0.056 af
Outflow=0.39 cfs 0.056 af

Link 9.5L: Sub 9.5 Res

Inflow=0.39 cfs 0.056 af
Primary=0.39 cfs 0.056 af

Total Runoff Area = 0.092 ac Runoff Volume = 0.056 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.092 ac

Summary for Subcatchment 2: 4000

Runoff = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Pond P2: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event

Inflow = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af

Outflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 36%, Lag= 5.3 min

Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.77' @ 12.13 hrs Surf.Area= 1,154 sf Storage= 767 cf

Plug-Flow detention time= 291.5 min calculated for 0.056 af (100% of inflow)

Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.38 cfs @ 12.13 hrs HW=1,686.77' (Free Discharge)

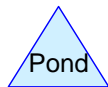
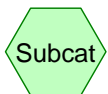
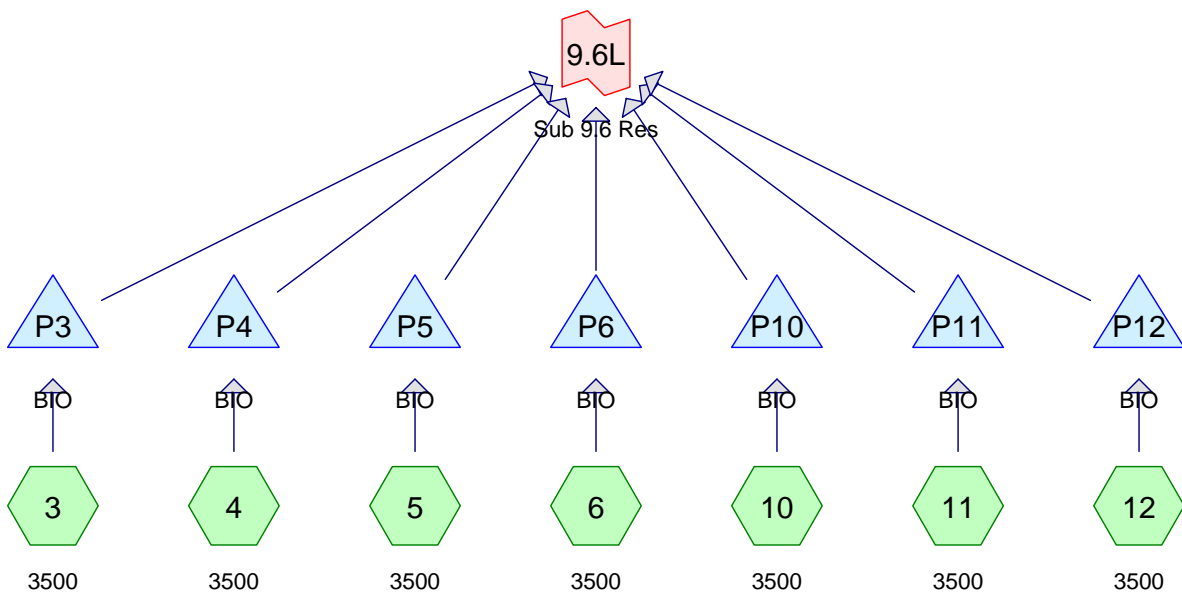
1=Orifice/Grate (Weir Controls 0.37 cfs @ 1.36 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 9.5L: Sub 9.5 Res

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af
Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 9.6
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.161	98	Driveway, extra imperv., HSG C (3, 4, 5, 6, 10, 11, 12)
0.402	98	Roofs, HSG C (3, 4, 5, 6, 10, 11, 12)
0.562	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.562	HSG C	3, 4, 5, 6, 10, 11, 12
0.000	HSG D	
0.000	Other	
0.562		TOTAL AREA

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 3: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 4: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 5: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 6: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 10: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 11: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 12: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Pond P10: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P11: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P12: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P3: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P4: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P5: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P6: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Link 9.6L: Sub 9.6 Res	Inflow=0.07 cfs 0.100 af Primary=0.07 cfs 0.100 af

Total Runoff Area = 0.562 ac Runoff Volume = 0.100 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.562 ac

Summary for Subcatchment 3: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 4: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 5: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

08077_Sub 9.6

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 6

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

Summary for Subcatchment 6: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 10: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 11: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 12: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P10: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume #1	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P11: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P12: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 9

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P3: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P4: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P5: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 11

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P6: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 9.6L: Sub 9.6 Res

Inflow Area = 0.562 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.07 cfs @ 13.59 hrs, Volume= 0.100 af
 Primary = 0.07 cfs @ 13.59 hrs, Volume= 0.100 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 12

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 3: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 4: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 5: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 6: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 10: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 11: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 12: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Pond P10: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P11: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P12: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P3: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P4: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P5: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P6: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Link 9.6L: Sub 9.6 Res	Inflow=0.16 cfs 0.188 af Primary=0.16 cfs 0.188 af

Total Runoff Area = 0.562 ac Runoff Volume = 0.188 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.562 ac

Summary for Subcatchment 3: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 4: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 5: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 14

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

Summary for Subcatchment 6: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 10: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 11: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 15

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 12: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P10: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume #1	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P11: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P12: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 17

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P3: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P4: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P5: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 19

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P6: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 9.6L: Sub 9.6 Res

Inflow Area = 0.562 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.16 cfs @ 13.15 hrs, Volume= 0.188 af
 Primary = 0.16 cfs @ 13.15 hrs, Volume= 0.188 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 9.6

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 20

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 3: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 4: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 5: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 6: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 10: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 11: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 12: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Pond P10: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P11: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P12: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P3: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P4: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P5: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P6: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Link 9.6L: Sub 9.6 Res	Inflow=2.30 cfs 0.345 af Primary=2.30 cfs 0.345 af

Total Runoff Area = 0.562 ac Runoff Volume = 0.345 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.562 ac

Summary for Subcatchment 3: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 4: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 5: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 22

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

Summary for Subcatchment 6: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 10: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 11: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 23

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 12: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P10: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume #1	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P11: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P12: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 25

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P3: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P4: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)
 1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)
 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P5: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 27

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P6: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

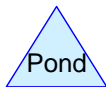
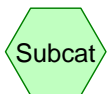
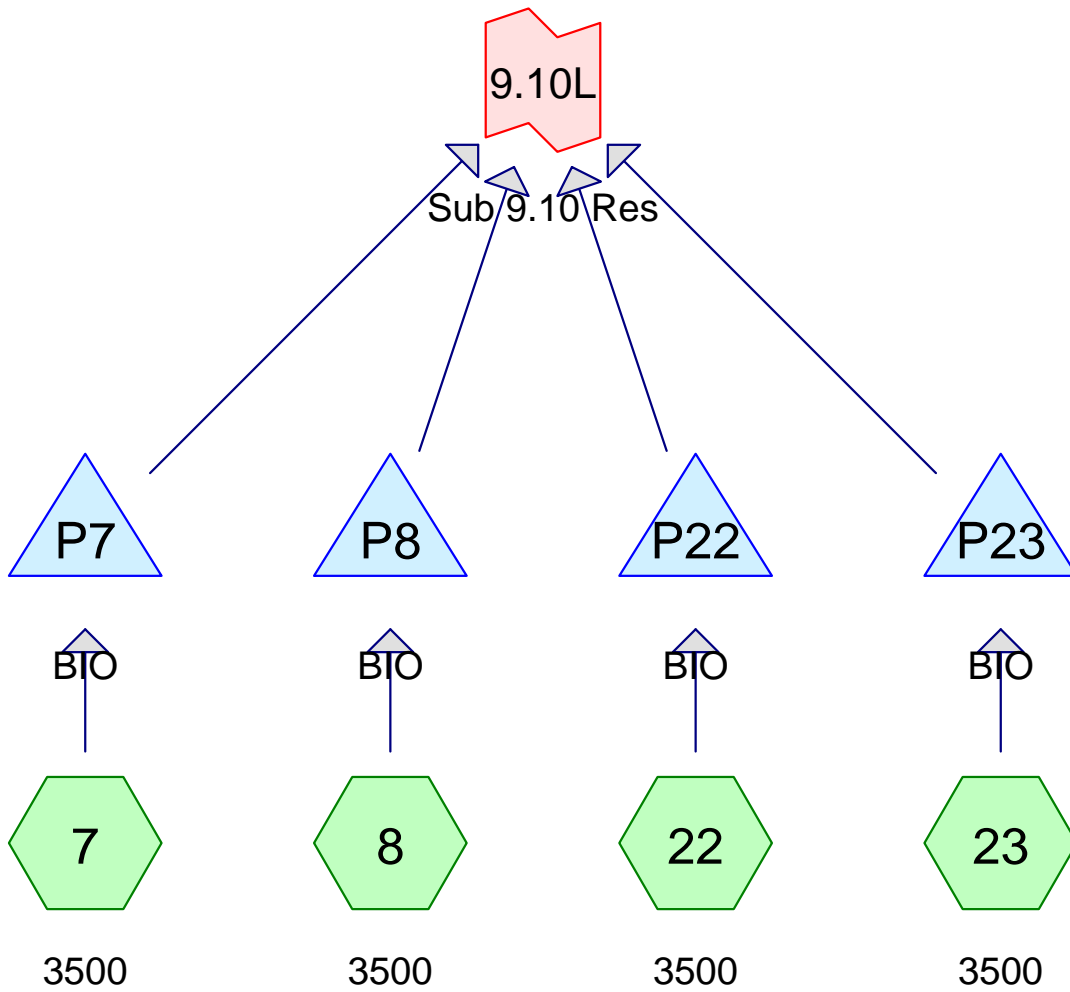
1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 9.6L: Sub 9.6 Res

Inflow Area = 0.562 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 2.30 cfs @ 12.14 hrs, Volume= 0.345 af
 Primary = 2.30 cfs @ 12.14 hrs, Volume= 0.345 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 9.10
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.092	98	Driveway, extra imperv., HSG C (7, 8, 22, 23)
0.230	98	Roofs, HSG C (7, 8, 22, 23)
0.321	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.321	HSG C	7, 8, 22, 23
0.000	HSG D	
0.000	Other	
0.321		TOTAL AREA

08077_Sub 9.10

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 7: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 8: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 22: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 23: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Pond P22: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P23: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P7: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P8: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Link 9.10L: Sub 9.10 Res	Inflow=0.04 cfs 0.057 af Primary=0.04 cfs 0.057 af

Total Runoff Area = 0.321 ac Runoff Volume = 0.057 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.321 ac

Summary for Subcatchment 7: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 8: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 22: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 23: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P22: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1 = **Orifice/Grate** (Controls 0.00 cfs)
- 2 = **Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P23: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P7: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P8: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 9.10L: Sub 9.10 Res

Inflow Area = 0.321 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.04 cfs @ 13.59 hrs, Volume= 0.057 af
 Primary = 0.04 cfs @ 13.59 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 7: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 8: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 22: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 23: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Pond P22: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P23: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P7: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P8: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Link 9.10L: Sub 9.10 Res Inflow=0.09 cfs 0.107 af
Primary=0.09 cfs 0.107 af

Total Runoff Area = 0.321 ac Runoff Volume = 0.107 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.321 ac

Summary for Subcatchment 7: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 8: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 22: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 23: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P22: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

- 1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P23: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P7: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

08077_Sub 9.10

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 13

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P8: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 9.10L: Sub 9.10 Res

Inflow Area = 0.321 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.09 cfs @ 13.15 hrs, Volume= 0.107 af
 Primary = 0.09 cfs @ 13.15 hrs, Volume= 0.107 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 9.10

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 14

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 7: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 8: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 22: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 23: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Pond P22: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P23: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P7: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P8: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Link 9.10L: Sub 9.10 Res	Inflow=1.31 cfs 0.197 af Primary=1.31 cfs 0.197 af

Total Runoff Area = 0.321 ac Runoff Volume = 0.197 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.321 ac

Summary for Subcatchment 7: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 8: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 22: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 23: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P22: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

- 1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P23: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P7: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

08077_Sub 9.10

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Prepared by The LA group

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Page 18

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

- 1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P8: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

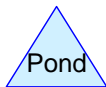
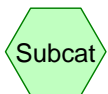
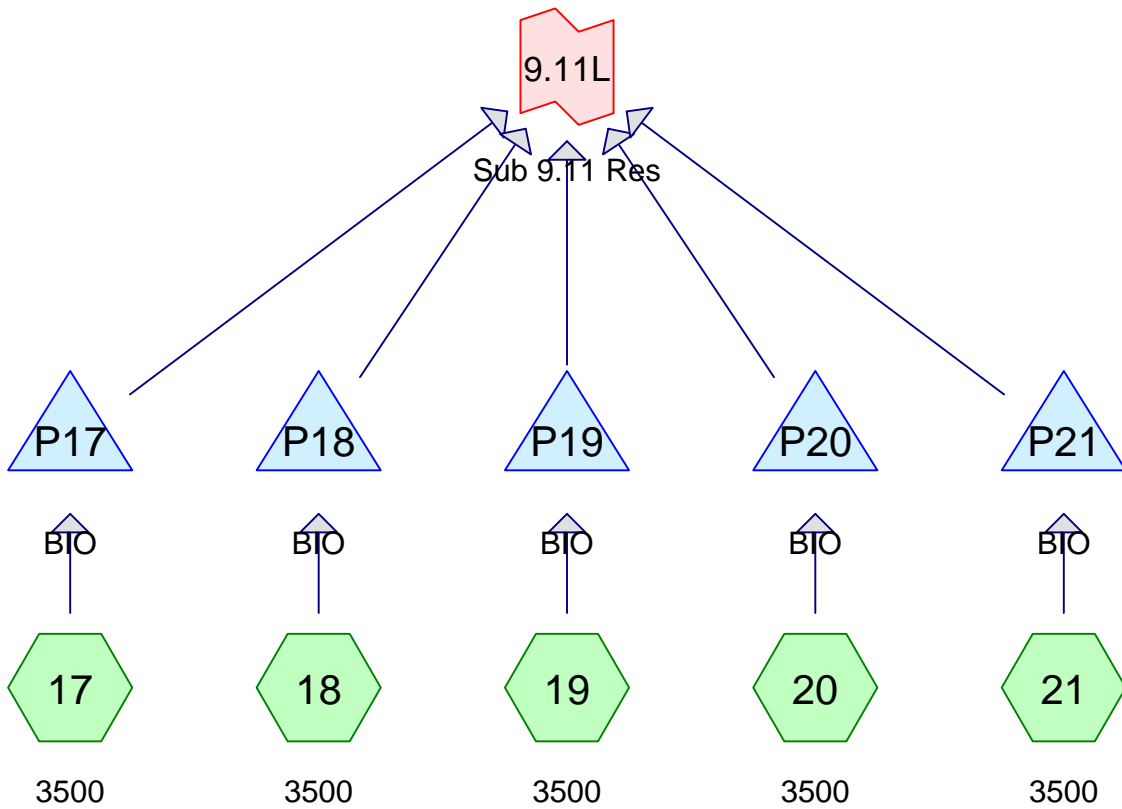
- 1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 9.10L: Sub 9.10 Res

Inflow Area = 0.321 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.31 cfs @ 12.14 hrs, Volume= 0.197 af
 Primary = 1.31 cfs @ 12.14 hrs, Volume= 0.197 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 9.11
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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.115	98	Driveway, extra imperv., HSG C (17, 18, 19, 20, 21)
0.287	98	Roofs, HSG C (17, 18, 19, 20, 21)
0.402	98	TOTAL AREA

08077_Sub 9.11

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.402	HSG C	17, 18, 19, 20, 21
0.000	HSG D	
0.000	Other	
0.402		TOTAL AREA

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 17: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 18: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 19: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 20: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 21: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Pond P17: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P18: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P19: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P20: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P21: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Link 9.11L: Sub 9.11 Res	Inflow=0.05 cfs 0.072 af Primary=0.05 cfs 0.072 af

Total Runoff Area = 0.402 ac Runoff Volume = 0.072 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.402 ac

Summary for Subcatchment 17: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 18: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 19: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 20: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 21: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P17: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P18: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P19: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P20: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P21: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)

Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 9.11L: Sub 9.11 Res

Inflow Area = 0.402 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.05 cfs @ 13.59 hrs, Volume= 0.072 af
 Primary = 0.05 cfs @ 13.59 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 17: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 18: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 19: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 20: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 21: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Pond P17: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P18: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P19: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P20: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P21: BIO Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Link 9.11L: Sub 9.11 Res Inflow=0.12 cfs 0.134 af
Primary=0.12 cfs 0.134 af

Total Runoff Area = 0.402 ac Runoff Volume = 0.134 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.402 ac

Summary for Subcatchment 17: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 18: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 19: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 20: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 21: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P17: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P18: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P19: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P20: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P21: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 9.11L: Sub 9.11 Res

Inflow Area = 0.402 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.12 cfs @ 13.15 hrs, Volume= 0.134 af
 Primary = 0.12 cfs @ 13.15 hrs, Volume= 0.134 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 17: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 18: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 19: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 20: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 21: 3500 Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Pond P17: BIO Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P18: BIO Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P19: BIO Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P20: BIO Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P21: BIO Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Link 9.11L: Sub 9.11 Res Inflow=1.64 cfs 0.247 af
Primary=1.64 cfs 0.247 af

Total Runoff Area = 0.402 ac Runoff Volume = 0.247 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.402 ac

Summary for Subcatchment 17: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 18: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 19: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 20: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 21: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P17: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P18: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P19: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P20: BIO

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

└1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

└2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P21: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

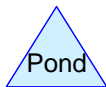
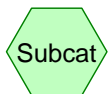
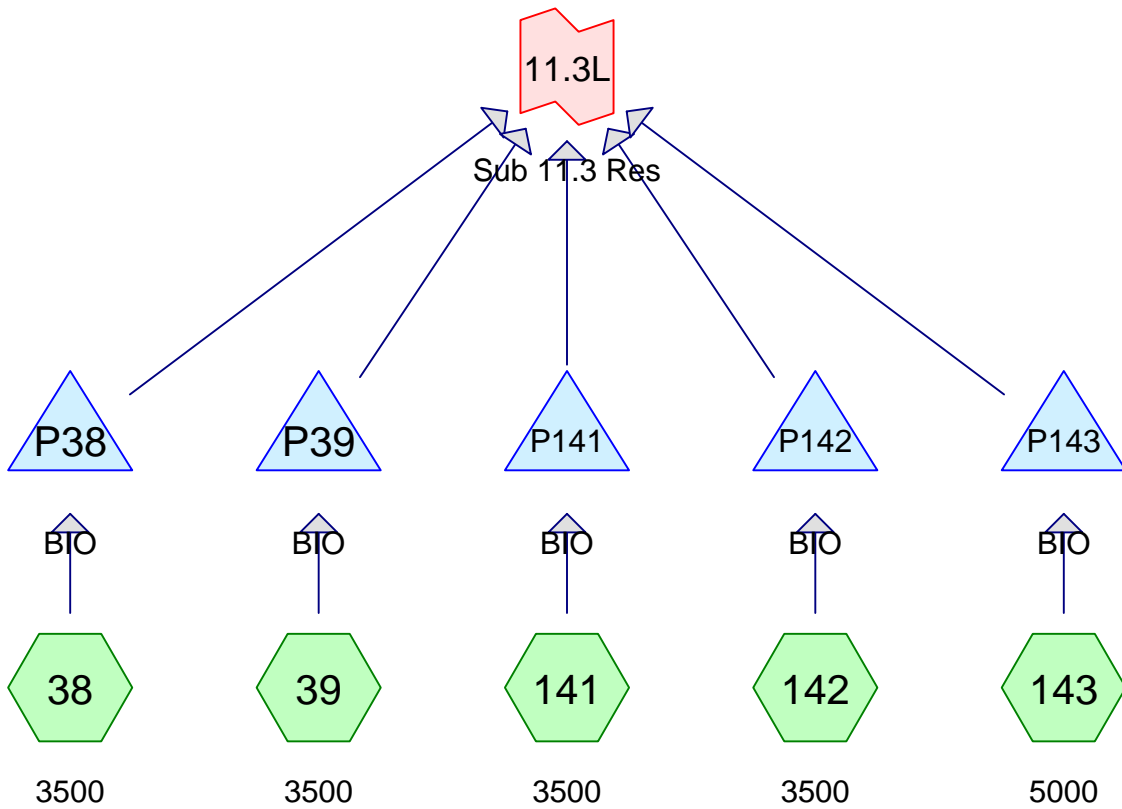
└1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

└2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 9.11L: Sub 9.11 Res

Inflow Area = 0.402 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.64 cfs @ 12.14 hrs, Volume= 0.247 af
 Primary = 1.64 cfs @ 12.14 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



Routing Diagram for 08077_Sub 11.3
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.115	98	Driveway, extra imperv., HSG C (38, 39, 141, 142, 143)
0.321	98	Roofs, HSG C (38, 39, 141, 142, 143)
0.436	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.436	HSG C	38, 39, 141, 142, 143
0.000	HSG D	
0.000	Other	
0.436		TOTAL AREA

08077_Sub 11.3

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 38: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 39: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 141: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 142: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 143: 5000	Runoff Area=5,000 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.29 cfs 0.020 af
Pond P141: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P142: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P143: BIO	Peak Elev=1,686.35' Storage=386 cf Inflow=0.29 cfs 0.020 af Outflow=0.01 cfs 0.020 af
Pond P38: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P39: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Link 11.3L: Sub 11.3 Res	Inflow=0.05 cfs 0.078 af Primary=0.05 cfs 0.078 af

Total Runoff Area = 0.436 ac Runoff Volume = 0.078 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.436 ac

Summary for Subcatchment 38: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 39: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 141: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 142: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 143: 5000

Runoff = 0.29 cfs @ 12.04 hrs, Volume= 0.020 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,000	98	Weighted Average
5,000		100.00% Impervious Area

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

Summary for Pond P141: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

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NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 7

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P142: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P143: BIO

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.29 cfs @ 12.04 hrs, Volume= 0.020 af
 Outflow = 0.01 cfs @ 13.71 hrs, Volume= 0.020 af, Atten= 95%, Lag= 100.1 min
 Primary = 0.01 cfs @ 13.71 hrs, Volume= 0.020 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.35' @ 13.71 hrs Surf.Area= 1,194 sf Storage= 386 cf

Plug-Flow detention time= 247.7 min calculated for 0.020 af (100% of inflow)
 Center-of-Mass det. time= 247.7 min (1,013.9 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,025 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,025	0	0
1,688.00	2,000	3,025	3,025

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.71 hrs HW=1,686.35' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P38: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P39: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 11.3L: Sub 11.3 Res

Inflow Area = 0.436 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.05 cfs @ 13.62 hrs, Volume= 0.078 af
 Primary = 0.05 cfs @ 13.62 hrs, Volume= 0.078 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 10

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 38: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 39: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 141: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 142: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 143: 5000	Runoff Area=5,000 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.48 cfs 0.038 af
Pond P141: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P142: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P143: BIO	Peak Elev=1,686.63' Storage=747 cf Inflow=0.48 cfs 0.038 af Outflow=0.05 cfs 0.038 af
Pond P38: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P39: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Link 11.3L: Sub 11.3 Res	Inflow=0.13 cfs 0.146 af Primary=0.13 cfs 0.146 af

Total Runoff Area = 0.436 ac Runoff Volume = 0.146 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.436 ac

Summary for Subcatchment 38: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 39: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 141: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

08077_Sub 11.3

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 12

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

Summary for Subcatchment 142: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 143: 5000

Runoff = 0.48 cfs @ 12.04 hrs, Volume= 0.038 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,000	98	Weighted Average
5,000		100.00% Impervious Area

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

Summary for Pond P141: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

08077_Sub 11.3

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 13

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P142: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P143: BIO

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.48 cfs @ 12.04 hrs, Volume= 0.038 af
 Outflow = 0.05 cfs @ 12.73 hrs, Volume= 0.038 af, Atten= 90%, Lag= 41.7 min
 Primary = 0.05 cfs @ 12.73 hrs, Volume= 0.038 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.63' @ 12.73 hrs Surf.Area= 1,334 sf Storage= 747 cf

Plug-Flow detention time= 401.3 min calculated for 0.038 af (100% of inflow)
 Center-of-Mass det. time= 401.4 min (1,153.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,025 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,025	0	0
1,688.00	2,000	3,025	3,025

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.05 cfs @ 12.73 hrs HW=1,686.63' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.03 cfs @ 0.59 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P38: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 15

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P39: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 11.3L: Sub 11.3 Res

Inflow Area = 0.436 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.13 cfs @ 13.06 hrs, Volume= 0.146 af
 Primary = 0.13 cfs @ 13.06 hrs, Volume= 0.146 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 11.3

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 16

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 38: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 39: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 141: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 142: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 143: 5000	Runoff Area=5,000 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.75 cfs 0.071 af
Pond P141: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P142: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P143: BIO	Peak Elev=1,686.80' Storage=978 cf Inflow=0.75 cfs 0.071 af Outflow=0.44 cfs 0.070 af
Pond P38: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P39: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Link 11.3L: Sub 11.3 Res	Inflow=1.75 cfs 0.268 af Primary=1.75 cfs 0.268 af

Total Runoff Area = 0.436 ac Runoff Volume = 0.268 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.436 ac

Summary for Subcatchment 38: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 39: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 141: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 18

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

Summary for Subcatchment 142: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 143: 5000

Runoff = 0.75 cfs @ 12.04 hrs, Volume= 0.071 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,000	98	Weighted Average
5,000		100.00% Impervious Area

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

Summary for Pond P141: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

08077_Sub 11.3

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 19

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P142: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P143: BIO

Inflow Area = 0.115 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.75 cfs @ 12.04 hrs, Volume= 0.071 af
 Outflow = 0.44 cfs @ 12.15 hrs, Volume= 0.070 af, Atten= 42%, Lag= 6.5 min
 Primary = 0.44 cfs @ 12.15 hrs, Volume= 0.070 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.80' @ 12.15 hrs Surf.Area= 1,416 sf Storage= 978 cf

Plug-Flow detention time= 291.5 min calculated for 0.070 af (100% of inflow)
 Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,025 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,025	0	0
1,688.00	2,000	3,025	3,025

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.44 cfs @ 12.15 hrs HW=1,686.80' (Free Discharge)

1=Orifice/Grate (Orifice Controls 0.42 cfs @ 2.16 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P38: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

08077_Sub 11.3

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 21

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P39: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

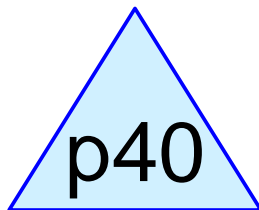
Summary for Link 11.3L: Sub 11.3 Res

Inflow Area = 0.436 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.75 cfs @ 12.14 hrs, Volume= 0.268 af
 Primary = 1.75 cfs @ 12.14 hrs, Volume= 0.268 af, Atten= 0%, Lag= 0.0 min

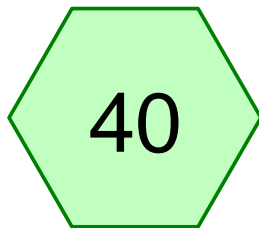
Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs



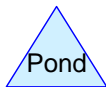
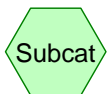
Sub 11.14 Res



BIO



3500



Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.023	98	Driveway, extra imperv., HSG C (40)
0.057	98	Roofs, HSG C (40)
0.080	98	TOTAL AREA

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.080	HSG C	40
0.000	HSG D	
0.000	Other	
0.080		TOTAL AREA

08077_Sub 11.14

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 40: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"

Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Pond p40: BIO

Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af

Outflow=0.01 cfs 0.014 af

Link 11.14L: Sub 11.14 Res

Inflow=0.01 cfs 0.014 af

Primary=0.01 cfs 0.014 af

Total Runoff Area = 0.080 ac Runoff Volume = 0.014 af Average Runoff Depth = 2.14"

0.00% Pervious = 0.000 ac 100.00% Impervious = 0.080 ac

Summary for Subcatchment 40: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond p40: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 11.14L: Sub 11.14 Res

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af
Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 11.14

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 7

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 40: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"

Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Pond p40: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af

Outflow=0.02 cfs 0.027 af

Link 11.14L: Sub 11.14 Res

Inflow=0.02 cfs 0.027 af

Primary=0.02 cfs 0.027 af

Total Runoff Area = 0.080 ac Runoff Volume = 0.027 af Average Runoff Depth = 4.00"

0.00% Pervious = 0.000 ac 100.00% Impervious = 0.080 ac

Summary for Subcatchment 40: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond p40: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 11.14L: Sub 11.14 Res

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af
Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 11.14

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 10

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 40: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"

Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Pond p40: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af

Outflow=0.33 cfs 0.049 af

Link 11.14L: Sub 11.14 Res

Inflow=0.33 cfs 0.049 af

Primary=0.33 cfs 0.049 af

Total Runoff Area = 0.080 ac Runoff Volume = 0.049 af Average Runoff Depth = 7.37"

0.00% Pervious = 0.000 ac 100.00% Impervious = 0.080 ac

Summary for Subcatchment 40: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond p40: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event

Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af

Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min

Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

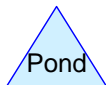
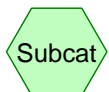
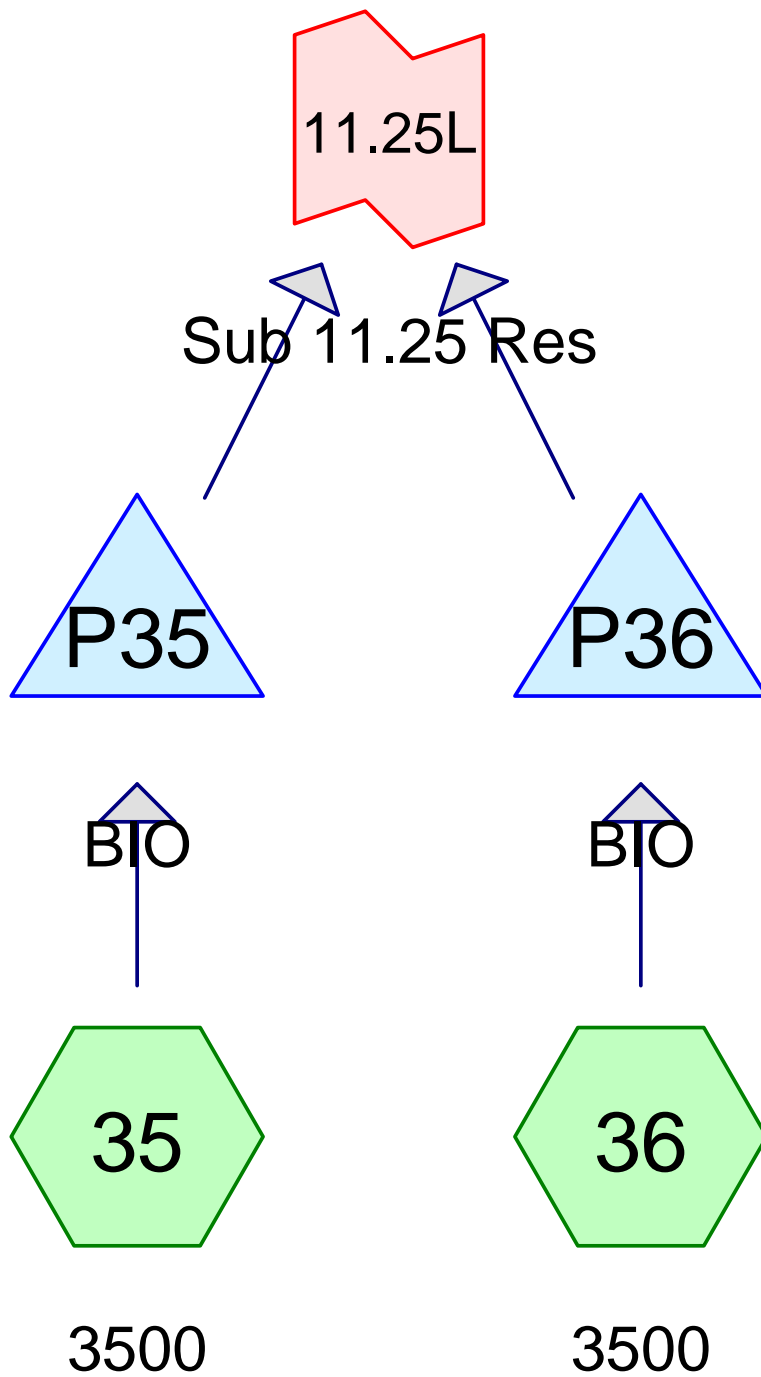
1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 11.14L: Sub 11.14 Res

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af
Primary = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af, Atten = 0%, Lag = 0.0 min

Primary outflow = Inflow, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs



Routing Diagram for 08077_Sub 11.25
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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.046	98	Driveway, extra imperv., HSG C (35, 36)
0.115	98	Roofs, HSG C (35, 36)
0.161	98	TOTAL AREA

08077_Sub 11.25

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.161	HSG C	35, 36
0.000	HSG D	
0.000	Other	
0.161		TOTAL AREA

08077_Sub 11.25

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 35: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Subcatchment 36: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"
Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Pond P35: BIO

Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Pond P36: BIO

Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.014 af

Link 11.25L: Sub 11.25 Res

Inflow=0.02 cfs 0.029 af
Primary=0.02 cfs 0.029 af

Total Runoff Area = 0.161 ac Runoff Volume = 0.029 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.161 ac

Summary for Subcatchment 35: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 36: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P35: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

08077_Sub 11.25

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 6

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P36: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 11.25L: Sub 11.25 Res

Inflow Area = 0.161 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.02 cfs @ 13.59 hrs, Volume = 0.029 af
Primary = 0.02 cfs @ 13.59 hrs, Volume = 0.029 af, Atten = 0%, Lag = 0.0 min

Primary outflow = Inflow, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs

08077_Sub 11.25

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 8

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 35: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Subcatchment 36: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"
Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Pond P35: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Pond P36: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af
Outflow=0.02 cfs 0.027 af

Link 11.25L: Sub 11.25 Res

Inflow=0.05 cfs 0.054 af
Primary=0.05 cfs 0.054 af

Total Runoff Area = 0.161 ac Runoff Volume = 0.054 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.161 ac

Summary for Subcatchment 35: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 36: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P35: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

08077_Sub 11.25

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 10

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P36: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 11.25L: Sub 11.25 Res

Inflow Area = 0.161 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.05 cfs @ 13.15 hrs, Volume = 0.054 af
Primary = 0.05 cfs @ 13.15 hrs, Volume = 0.054 af, Atten = 0%, Lag = 0.0 min

Primary outflow = Inflow, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs

08077_Sub 11.25

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 12

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 35: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Subcatchment 36: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"
Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Pond P35: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Pond P36: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af
Outflow=0.33 cfs 0.049 af

Link 11.25L: Sub 11.25 Res

Inflow=0.66 cfs 0.099 af
Primary=0.66 cfs 0.099 af

Total Runoff Area = 0.161 ac Runoff Volume = 0.099 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.161 ac

Summary for Subcatchment 35: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 36: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P35: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

08077_Sub 11.25

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 14

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P36: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

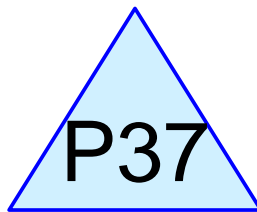
Summary for Link 11.25L: Sub 11.25 Res

Inflow Area = 0.161 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.66 cfs @ 12.14 hrs, Volume = 0.099 af
Primary = 0.66 cfs @ 12.14 hrs, Volume = 0.099 af, Atten = 0%, Lag = 0.0 min

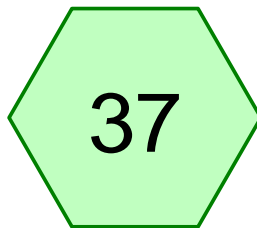
Primary outflow = Inflow, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs



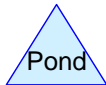
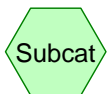
Sub 11.33 Res



BIO



3500



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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.023	98	Driveway, extra imperv., HSG C (37)
0.057	98	Roofs, HSG C (37)
0.080	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.080	HSG C	37
0.000	HSG D	
0.000	Other	
0.080		TOTAL AREA

08077_Sub 11.33

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 37: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14"

Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af

Pond P37: BIO

Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af

Outflow=0.01 cfs 0.014 af

Link 11.33L: Sub 11.33 Res

Inflow=0.01 cfs 0.014 af

Primary=0.01 cfs 0.014 af

Total Runoff Area = 0.080 ac Runoff Volume = 0.014 af Average Runoff Depth = 2.14"

0.00% Pervious = 0.000 ac 100.00% Impervious = 0.080 ac

Summary for Subcatchment 37: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P37: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 11.33L: Sub 11.33 Res

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
Inflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af
Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 7

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 37: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00"

Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af

Pond P37: BIO

Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af

Outflow=0.02 cfs 0.027 af

Link 11.33L: Sub 11.33 Res

Inflow=0.02 cfs 0.027 af

Primary=0.02 cfs 0.027 af

Total Runoff Area = 0.080 ac Runoff Volume = 0.027 af Average Runoff Depth = 4.00"

0.00% Pervious = 0.000 ac 100.00% Impervious = 0.080 ac

Summary for Subcatchment 37: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P37: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 11.33L: Sub 11.33 Res

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
Inflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af
Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 11.33

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 10

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 37: 3500

Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37"

Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af

Pond P37: BIO

Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af

Outflow=0.33 cfs 0.049 af

Link 11.33L: Sub 11.33 Res

Inflow=0.33 cfs 0.049 af

Primary=0.33 cfs 0.049 af

Total Runoff Area = 0.080 ac Runoff Volume = 0.049 af Average Runoff Depth = 7.37"

0.00% Pervious = 0.000 ac 100.00% Impervious = 0.080 ac

Summary for Subcatchment 37: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P37: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event

Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af

Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min

Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

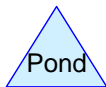
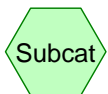
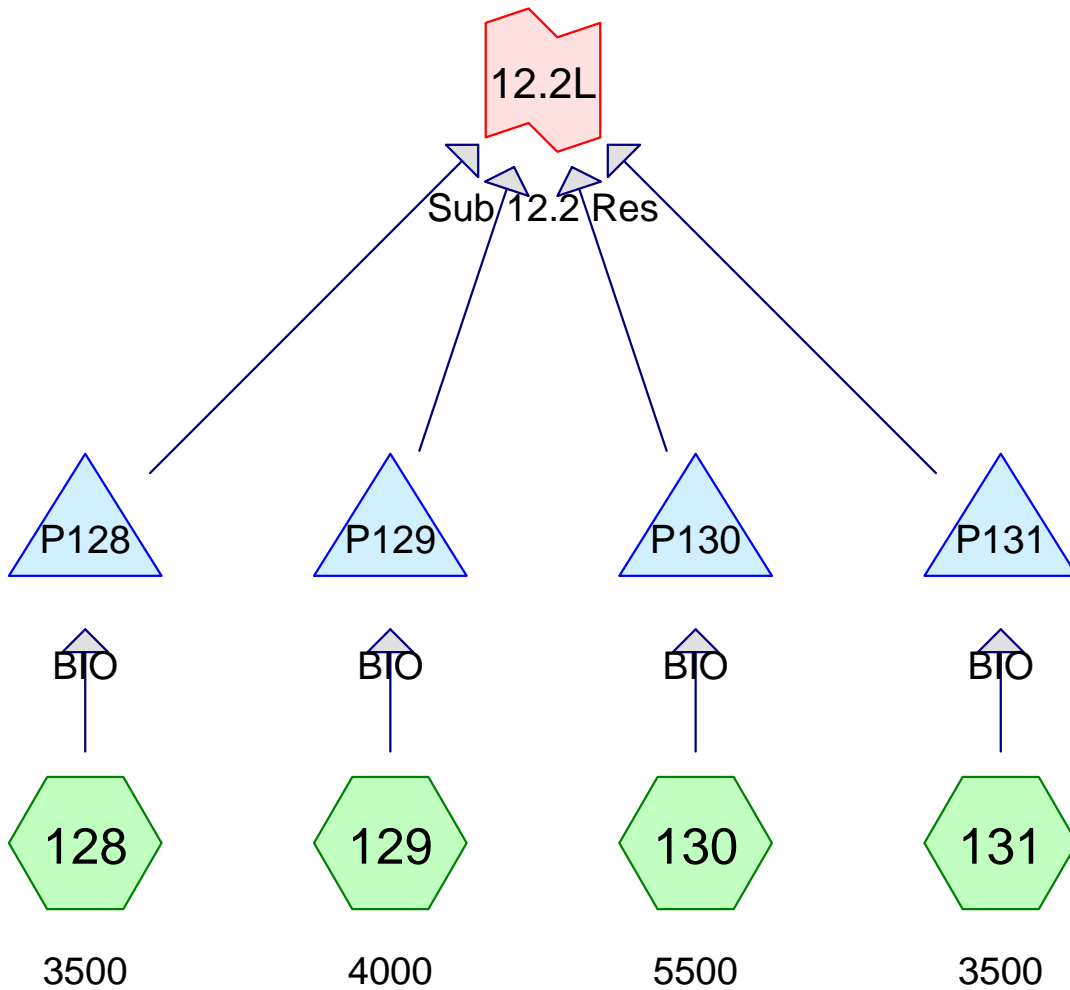
1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 11.33L: Sub 11.33 Res

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
Inflow = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af
Primary = 0.33 cfs @ 12.14 hrs, Volume = 0.049 af, Atten = 0%, Lag = 0.0 min

Primary outflow = Inflow, Time Span = 0.00-144.00 hrs, dt = 0.05 hrs



Routing Diagram for 08077_Sub 12.2
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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.092	98	Driveway, extra imperv., HSG C (128, 129, 130, 131)
0.287	98	Roofs, HSG C (128, 129, 130, 131)
0.379	98	TOTAL AREA

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.379	HSG C	128, 129, 130, 131
0.000	HSG D	
0.000	Other	
0.379		TOTAL AREA

08077_Sub 12.2

NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

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Page 4

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 128: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment 129: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.23 cfs 0.016 af
Subcatchment 130: 5500	Runoff Area=5,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.32 cfs 0.023 af
Subcatchment 131: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=2.14" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.014 af
Pond P128: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Pond P129: BIO	Peak Elev=1,686.34' Storage=300 cf Inflow=0.23 cfs 0.016 af Outflow=0.01 cfs 0.016 af
Pond P130: BIO	Peak Elev=1,686.36' Storage=429 cf Inflow=0.32 cfs 0.023 af Outflow=0.01 cfs 0.023 af
Pond P131: BIO	Peak Elev=1,686.32' Storage=260 cf Inflow=0.20 cfs 0.014 af Outflow=0.01 cfs 0.014 af
Link 12.2L: Sub 12.2 Res	Inflow=0.05 cfs 0.068 af Primary=0.05 cfs 0.068 af

Total Runoff Area = 0.379 ac Runoff Volume = 0.068 af Average Runoff Depth = 2.14"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.379 ac

Summary for Subcatchment 128: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 129: 4000

Runoff = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 130: 5500

Runoff = 0.32 cfs @ 12.04 hrs, Volume= 0.023 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,500	98	Weighted Average
5,500		100.00% Impervious Area

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

Summary for Subcatchment 131: 3500

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 1-yr 1-yr Local Rainfall=2.37"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P128: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P129: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.23 cfs @ 12.04 hrs, Volume= 0.016 af
 Outflow = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af, Atten= 95%, Lag= 98.4 min
 Primary = 0.01 cfs @ 13.68 hrs, Volume= 0.016 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.34' @ 13.68 hrs Surf.Area= 967 sf Storage= 300 cf

Plug-Flow detention time= 232.2 min calculated for 0.016 af (100% of inflow)
 Center-of-Mass det. time= 232.1 min (998.3 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.68 hrs HW=1,686.33' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P130: BIO

Inflow Area = 0.126 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.32 cfs @ 12.04 hrs, Volume= 0.023 af
 Outflow = 0.01 cfs @ 13.80 hrs, Volume= 0.023 af, Atten= 95%, Lag= 105.8 min
 Primary = 0.01 cfs @ 13.80 hrs, Volume= 0.023 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.36' @ 13.80 hrs Surf.Area= 1,264 sf Storage= 429 cf

Plug-Flow detention time= 261.7 min calculated for 0.023 af (100% of inflow)
 Center-of-Mass det. time= 261.7 min (1,027.9 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,100 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,100	0	0
1,688.00	2,000	3,100	3,100

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.80 hrs HW=1,686.36' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P131: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.014 af
 Outflow = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af, Atten= 95%, Lag= 93.2 min
 Primary = 0.01 cfs @ 13.59 hrs, Volume= 0.014 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.32' @ 13.59 hrs Surf.Area= 879 sf Storage= 260 cf

Plug-Flow detention time= 221.5 min calculated for 0.014 af (100% of inflow)
 Center-of-Mass det. time= 221.5 min (987.7 - 766.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.01 cfs @ 13.59 hrs HW=1,686.32' (Free Discharge)

- 1=Orifice/Grate (Controls 0.00 cfs)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 12.2L: Sub 12.2 Res

Inflow Area = 0.379 ac, 100.00% Impervious, Inflow Depth = 2.14" for 1-yr Local event
 Inflow = 0.05 cfs @ 13.66 hrs, Volume= 0.068 af
 Primary = 0.05 cfs @ 13.66 hrs, Volume= 0.068 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

08077_Sub 12.2

NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 9

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 128: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Subcatchment 129: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.38 cfs 0.031 af
Subcatchment 130: 5500	Runoff Area=5,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.52 cfs 0.042 af
Subcatchment 131: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=4.00" Tc=6.0 min CN=98 Runoff=0.33 cfs 0.027 af
Pond P128: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Pond P129: BIO	Peak Elev=1,686.62' Storage=599 cf Inflow=0.38 cfs 0.031 af Outflow=0.03 cfs 0.031 af
Pond P130: BIO	Peak Elev=1,686.65' Storage=805 cf Inflow=0.52 cfs 0.042 af Outflow=0.07 cfs 0.042 af
Pond P131: BIO	Peak Elev=1,686.62' Storage=538 cf Inflow=0.33 cfs 0.027 af Outflow=0.02 cfs 0.027 af
Link 12.2L: Sub 12.2 Res	Inflow=0.13 cfs 0.126 af Primary=0.13 cfs 0.126 af

Total Runoff Area = 0.379 ac Runoff Volume = 0.126 af Average Runoff Depth = 4.00"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.379 ac

Summary for Subcatchment 128: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 129: 4000

Runoff = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 130: 5500

Runoff = 0.52 cfs @ 12.04 hrs, Volume= 0.042 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,500	98	Weighted Average
5,500		100.00% Impervious Area

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

Summary for Subcatchment 131: 3500

Runoff = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af, Depth= 4.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P128: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)
 Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

- 1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P129: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.38 cfs @ 12.04 hrs, Volume= 0.031 af
 Outflow = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af, Atten= 91%, Lag= 49.3 min
 Primary = 0.03 cfs @ 12.86 hrs, Volume= 0.031 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.62' @ 12.86 hrs Surf.Area= 1,091 sf Storage= 599 cf

Plug-Flow detention time= 400.4 min calculated for 0.031 af (100% of inflow)
 Center-of-Mass det. time= 400.5 min (1,152.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.03 cfs @ 12.86 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.02 cfs @ 0.52 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P130: BIO

Inflow Area = 0.126 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.52 cfs @ 12.04 hrs, Volume= 0.042 af
 Outflow = 0.07 cfs @ 12.62 hrs, Volume= 0.042 af, Atten= 87%, Lag= 35.0 min
 Primary = 0.07 cfs @ 12.62 hrs, Volume= 0.042 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.65' @ 12.62 hrs Surf.Area= 1,391 sf Storage= 805 cf

Plug-Flow detention time= 395.4 min calculated for 0.042 af (100% of inflow)
 Center-of-Mass det. time= 395.5 min (1,147.7 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,100 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,100	0	0
1,688.00	2,000	3,100	3,100

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NY-Windham 24-hr S1 10-yr 10-yr Local Rainfall=4.24"

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Page 13

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.07 cfs @ 12.62 hrs HW=1,686.65' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.05 cfs @ 0.70 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P131: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.33 cfs @ 12.04 hrs, Volume= 0.027 af
 Outflow = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af, Atten= 93%, Lag= 66.6 min
 Primary = 0.02 cfs @ 13.15 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.62' @ 13.15 hrs Surf.Area= 1,018 sf Storage= 538 cf

Plug-Flow detention time= 403.1 min calculated for 0.027 af (100% of inflow)

Center-of-Mass det. time= 403.0 min (1,155.2 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.02 cfs @ 13.15 hrs HW=1,686.62' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.01 cfs @ 0.43 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 12.2L: Sub 12.2 Res

Inflow Area = 0.379 ac, 100.00% Impervious, Inflow Depth = 4.00" for 10-yr Local event
 Inflow = 0.13 cfs @ 12.91 hrs, Volume= 0.126 af
 Primary = 0.13 cfs @ 12.91 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs

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NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 14

Time span=0.00-144.00 hrs, dt=0.05 hrs, 2881 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 128: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Subcatchment 129: 4000	Runoff Area=4,000 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.60 cfs 0.056 af
Subcatchment 130: 5500	Runoff Area=5,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.83 cfs 0.078 af
Subcatchment 131: 3500	Runoff Area=3,500 sf 100.00% Impervious Runoff Depth=7.37" Tc=6.0 min CN=98 Runoff=0.53 cfs 0.049 af
Pond P128: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Pond P129: BIO	Peak Elev=1,686.77' Storage=767 cf Inflow=0.60 cfs 0.056 af Outflow=0.39 cfs 0.056 af
Pond P130: BIO	Peak Elev=1,686.83' Storage=1,065 cf Inflow=0.83 cfs 0.078 af Outflow=0.47 cfs 0.078 af
Pond P131: BIO	Peak Elev=1,686.76' Storage=683 cf Inflow=0.53 cfs 0.049 af Outflow=0.33 cfs 0.049 af
Link 12.2L: Sub 12.2 Res	Inflow=1.51 cfs 0.233 af Primary=1.51 cfs 0.233 af

Total Runoff Area = 0.379 ac Runoff Volume = 0.233 af Average Runoff Depth = 7.37"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.379 ac

08077_Sub 12.2

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 15

Summary for Subcatchment 128: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Subcatchment 129: 4000

Runoff = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
3,000	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
4,000	98	Weighted Average
4,000		100.00% Impervious Area

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

Summary for Subcatchment 130: 5500

Runoff = 0.83 cfs @ 12.04 hrs, Volume= 0.078 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
4,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
5,500	98	Weighted Average
5,500		100.00% Impervious Area

08077_Sub 12.2

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

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Page 16

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

Summary for Subcatchment 131: 3500

Runoff = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af, Depth= 7.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs
 NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Area (sf)	CN	Description
2,500	98	Roofs, HSG C
* 1,000	98	Driveway, extra imperv., HSG C
3,500	98	Weighted Average
3,500		100.00% Impervious Area

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

Summary for Pond P128: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

- 1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)
- 2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P129: BIO

Inflow Area = 0.092 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.60 cfs @ 12.04 hrs, Volume= 0.056 af
 Outflow = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af, Atten= 36%, Lag= 5.3 min
 Primary = 0.39 cfs @ 12.13 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.77' @ 12.13 hrs Surf.Area= 1,154 sf Storage= 767 cf

Plug-Flow detention time= 291.5 min calculated for 0.056 af (100% of inflow)
 Center-of-Mass det. time= 291.4 min (1,033.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	1,038 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	825	0	0
1,687.00	1,250	1,038	1,038

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.38 cfs @ 12.13 hrs HW=1,686.77' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.37 cfs @ 1.36 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond P130: BIO

Inflow Area = 0.126 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.83 cfs @ 12.04 hrs, Volume= 0.078 af
 Outflow = 0.47 cfs @ 12.15 hrs, Volume= 0.078 af, Atten= 44%, Lag= 6.9 min
 Primary = 0.47 cfs @ 12.15 hrs, Volume= 0.078 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2
 Peak Elev= 1,686.83' @ 12.15 hrs Surf.Area= 1,473 sf Storage= 1,065 cf

Plug-Flow detention time= 284.3 min calculated for 0.078 af (100% of inflow)
 Center-of-Mass det. time= 284.7 min (1,026.9 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	3,100 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	1,100	0	0
1,688.00	2,000	3,100	3,100

08077_Sub 12.2

NY-Windham 24-hr S1 100-yr 100-yr Local Rainfall=7.61"

Prepared by The LA group

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Page 18

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.47 cfs @ 12.15 hrs HW=1,686.83' (Free Discharge)

1=Orifice/Grate (Orifice Controls 0.45 cfs @ 2.30 fps)

2=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond P131: BIO

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 0.53 cfs @ 12.04 hrs, Volume= 0.049 af
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af, Atten= 38%, Lag= 5.9 min
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs / 2

Peak Elev= 1,686.76' @ 12.14 hrs Surf.Area= 1,084 sf Storage= 683 cf

Plug-Flow detention time= 296.3 min calculated for 0.049 af (100% of inflow)

Center-of-Mass det. time= 296.4 min (1,038.7 - 742.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,686.00'	963 cf	surface storage (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,686.00	725	0	0
1,687.00	1,200	963	963

Device	Routing	Invert	Outlet Devices
#1	Primary	1,686.60'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	1,686.00'	0.500 in/hr Exfiltration over Surface area

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=1,686.75' (Free Discharge)

1=Orifice/Grate (Weir Controls 0.31 cfs @ 1.29 fps)

2=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Link 12.2L: Sub 12.2 Res

Inflow Area = 0.379 ac, 100.00% Impervious, Inflow Depth = 7.37" for 100-yr Local event
 Inflow = 1.51 cfs @ 12.14 hrs, Volume= 0.233 af
 Primary = 1.51 cfs @ 12.14 hrs, Volume= 0.233 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-144.00 hrs, dt= 0.05 hrs