Device	Routing	Invert	Outlet Devices
#1	Discarded	152.00'	**0.520 in/hr Exfiltration TH #95-105 over Surface area** Phase-In= 0.01'
#2	Primary	165.00'	**Grass Weir, Cv= 2.62 (C= 3.28)** Head (feet) 0.00 1.00 2.00 Width (feet) 4.00 36.00 85.00

Discarded OutFlow Max=0.12 cfs @ 24.89 hrs HW=164.42' (Free Discharge)
└**1=Exfiltration TH #95-105** (Exfiltration Controls 0.12 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=152.00' TW=0.00' (Dynamic Tailwater)
└**2=Grass Weir** (Controls 0.00 cfs)

Summary for Pond 235: Existing Depression (STA 4+00)

Inflow Area = 0.442 ac, 0.00% Impervious, Inflow Depth = 1.37" for 100-Year event
Inflow = 0.51 cfs @ 12.11 hrs, Volume= 0.051 af
Outflow = 0.02 cfs @ 19.78 hrs, Volume= 0.051 af, Atten= 96%, Lag= 459.9 min
Discarded = 0.02 cfs @ 19.78 hrs, Volume= 0.051 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Link 231 : DP-2: Brushy Brook

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 148.88' @ 19.78 hrs Surf.Area= 1,800 sf Storage= 1,343 cf

Plug-Flow detention time= 716.0 min calculated for 0.051 af (100% of inflow)
Center-of-Mass det. time= 716.0 min (1,620.8 - 904.8)

Volume	Invert	Avail.Storage	Storage Description
#1	148.00'	18,588 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
148.00	1,274	143.0	0	0	1,274
150.00	2,605	198.0	3,800	3,800	2,805
152.00	3,640	228.0	6,216	10,017	3,908
154.00	4,966	280.0	8,572	18,588	6,070

Device	Routing	Invert	Outlet Devices
#1	Discarded	148.00'	**0.520 in/hr Exfiltration TH #95-100 over Surface area** Phase-In= 0.01'
#2	Primary	153.00'	**Grass Weir, Cv= 2.62 (C= 3.28)** Head (feet) 0.00 1.00 3.00 Width (feet) 1.00 17.00 99.00

Discarded OutFlow Max=0.02 cfs @ 19.78 hrs HW=148.88' (Free Discharge)
└**1=Exfiltration TH #95-100** (Exfiltration Controls 0.02 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=148.00' TW=0.00' (Dynamic Tailwater)
└**2=Grass Weir** (Controls 0.00 cfs)

Summary for Pond 363.2: Drywell A (1.02 in/hr) (2' Deep)

Inflow Area = 0.046 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.47 cfs @ 12.00 hrs, Volume= 0.032 af
Outflow = 0.45 cfs @ 12.01 hrs, Volume= 0.032 af, Atten= 4%, Lag= 0.6 min
Discarded = 0.00 cfs @ 2.98 hrs, Volume= 0.007 af
Primary = 0.45 cfs @ 12.01 hrs, Volume= 0.025 af
Routed to Pond 364 : Existing Depression (STA 19+00)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.28' @ 12.01 hrs Surf.Area= 116 sf Storage= 88 cf

Plug-Flow detention time= 71.4 min calculated for 0.032 af (100% of inflow)
Center-of-Mass det. time= 71.4 min (806.3 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#2	997.00'	38 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 116 cf Overall x 33.0% Voids
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		48 cf	x 2.00 = 97 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	58	0	0
999.00	58	116	116

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Orifice X 2.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 2.98 hrs HW=997.04' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.44 cfs @ 12.01 hrs HW=1,000.28' TW=202.64' (Dynamic Tailwater)
↑**2=Dome Orifice** (Orifice Controls 0.44 cfs @ 2.55 fps)

Summary for Pond 363.4: Drywell D (1.02 in/hr) (2' Deep)

Inflow Area = 0.080 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.81 cfs @ 12.00 hrs, Volume= 0.055 af
Outflow = 0.81 cfs @ 12.00 hrs, Volume= 0.055 af, Atten= 1%, Lag= 0.2 min
Discarded = 0.00 cfs @ 2.89 hrs, Volume= 0.012 af
Primary = 0.80 cfs @ 12.00 hrs, Volume= 0.043 af
Routed to Pond 364 : Existing Depression (STA 19+00)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.10' @ 12.00 hrs Surf.Area= 196 sf Storage= 145 cf

Plug-Flow detention time= 70.1 min calculated for 0.055 af (100% of inflow)
Center-of-Mass det. time= 70.1 min (805.0 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	18 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 56 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		29 cf	x 7.00 = 200 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	28	0	0
999.00	28	56	56

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 7.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 2.89 hrs HW=997.04' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.80 cfs @ 12.00 hrs HW=1,000.10' TW=202.62' (Dynamic Tailwater)
↑—**2=Dome Grate** (Weir Controls 0.80 cfs @ 1.05 fps)

Summary for Pond 364: Existing Depression (STA 19+00)

Inflow Area = 7.066 ac, 1.78% Impervious, Inflow Depth = 3.30" for 100-Year event
Inflow = 17.14 cfs @ 12.31 hrs, Volume= 1.946 af
Outflow = 4.94 cfs @ 12.90 hrs, Volume= 1.946 af, Atten= 71%, Lag= 35.5 min
Primary = 4.94 cfs @ 12.90 hrs, Volume= 1.946 af
Routed to Reach 364A : To DP-2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 204.87' @ 12.90 hrs Surf.Area= 17,633 sf Storage= 24,875 cf

Plug-Flow detention time= 44.5 min calculated for 1.946 af (100% of inflow)
Center-of-Mass det. time= 44.5 min (906.5 - 862.0)

Volume	Invert	Avail.Storage	Storage Description
#1	201.53'	50,140 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
201.53	12	0	0
204.00	10,279	12,709	12,709
206.00	27,152	37,431	50,140

Device	Routing	Invert	Outlet Devices
#1	Device 2	201.53'	**12.00" Round Culvert** L= 124.4' Ke= 0.500 Inlet / Outlet Invert= 201.53' / 200.91' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#2	Device 3	200.91'	**12.00" Round Culvert** L= 169.0' Ke= 0.500 Inlet / Outlet Invert= 200.91' / 197.00' S= 0.0231 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#3	Device 4	197.00'	**12.00" Round Culvert** L= 160.0' Ke= 0.500 Inlet / Outlet Invert= 197.00' / 193.80' S= 0.0200 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#4	Primary	193.80'	**12.00" Round Culvert** L= 146.7' Ke= 0.500 Inlet / Outlet Invert= 193.80' / 193.21' S= 0.0040 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=4.94 cfs @ 12.90 hrs HW=204.87' TW=193.22' (Dynamic Tailwater)
- **4=Culvert** (Passes 4.94 cfs of 8.84 cfs potential flow)
  - **3=Culvert** (Passes 4.94 cfs of 8.32 cfs potential flow)
    - **2=Culvert** (Passes 4.94 cfs of 6.73 cfs potential flow)
      - **1=Culvert** (Barrel Controls 4.94 cfs @ 6.29 fps)

Summary for Pond 400.2: Drywell D (1.02 in/hr) (2' Deep)

Inflow Area = 0.069 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.70 cfs @ 12.00 hrs, Volume= 0.047 af
Outflow = 0.69 cfs @ 12.00 hrs, Volume= 0.047 af, Atten= 1%, Lag= 0.2 min
Discarded = 0.00 cfs @ 2.87 hrs, Volume= 0.010 af
Primary = 0.69 cfs @ 12.00 hrs, Volume= 0.037 af
Routed to Link 401 : DP-4: NE Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.10' @ 12.00 hrs Surf.Area= 168 sf Storage= 124 cf

Plug-Flow detention time= 69.7 min calculated for 0.047 af (100% of inflow)
Center-of-Mass det. time= 69.8 min (804.7 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	18 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 56 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		29 cf	x 6.00 = 172 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	28	0	0
999.00	28	56	56

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 6.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 2.87 hrs HW=997.04' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.69 cfs @ 12.00 hrs HW=1,000.10' TW=0.00' (Dynamic Tailwater)
2=Dome Grate (Weir Controls 0.69 cfs @ 1.05 fps)

Summary for Pond 505: Culvert

Inflow Area = 239.106 ac, 3.24% Impervious, Inflow Depth = 3.25" for 100-Year event
Inflow = 361.46 cfs @ 12.86 hrs, Volume= 64.697 af
Outflow = 361.46 cfs @ 12.86 hrs, Volume= 64.697 af, Atten= 0%, Lag= 0.0 min
Primary = 85.57 cfs @ 12.86 hrs, Volume= 42.118 af
Routed to Link 506 : Site Convergence
Secondary = 275.89 cfs @ 12.86 hrs, Volume= 22.579 af
Routed to Link 506 : Site Convergence

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 142.02' @ 12.86 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	128.00'	**18.00" Round Culvert** L= 30.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 128.00' / 125.00' S= 0.1000 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Primary	128.00'	**24.00" Round Culvert** L= 30.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 128.00' / 125.00' S= 0.1000 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#3	Secondary	139.00'	**20.0' long x 24.0' breadth Road** 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=85.57 cfs @ 12.86 hrs HW=142.02' TW=0.00' (Dynamic Tailwater)
1=Culvert (Inlet Controls 30.99 cfs @ 17.54 fps)
2=Culvert (Inlet Controls 54.58 cfs @ 17.37 fps)

Secondary OutFlow Max=275.86 cfs @ 12.86 hrs HW=142.02' TW=0.00' (Dynamic Tailwater)
3=Road (Weir Controls 275.86 cfs @ 4.57 fps)

Summary for Link 117: DP-1: NW Wetland

Inflow Area = 45.161 ac, 4.55% Impervious, Inflow Depth = 3.35" for 100-Year event
Inflow = 95.71 cfs @ 12.39 hrs, Volume= 12.609 af
Primary = 95.71 cfs @ 12.39 hrs, Volume= 12.609 af, Atten= 0%, Lag= 0.0 min
Routed to Reach 500 : Northwest Wetland

Primary outflow = Inflow, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs

Summary for Link 231: DP-2: Brushy Brook

Inflow Area = 35.977 ac, 4.50% Impervious, Inflow Depth = 2.49" for 100-Year event
Inflow = 56.43 cfs @ 12.21 hrs, Volume= 7.469 af
Primary = 56.43 cfs @ 12.21 hrs, Volume= 7.469 af, Atten= 0%, Lag= 0.0 min
Routed to Reach 501 : Brushy Brook

Primary outflow = Inflow, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs

Summary for Link 369: DP-3 Central Wetland/Dye Hill Road Crossing

Inflow Area = 239.106 ac, 3.24% Impervious, Inflow Depth = 3.25" for 100-Year event
Inflow = 364.52 cfs @ 12.81 hrs, Volume= 64.697 af
Primary = 364.52 cfs @ 12.81 hrs, Volume= 64.697 af, Atten= 0%, Lag= 0.0 min
Routed to Reach 504 : Unnamed Stream - To Dye Hill Road

Primary outflow = Inflow, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs

100-Year Primary Outflow Imported from 1193-001-ALLS-PHCD-INHS DP-3~Link 369.hce

Summary for Link 401: DP-4: NE Abutters

Inflow Area = 18.836 ac, 0.37% Impervious, Inflow Depth = 3.14" for 100-Year event
Inflow = 42.25 cfs @ 12.35 hrs, Volume= 4.934 af
Primary = 42.25 cfs @ 12.35 hrs, Volume= 4.934 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 36R

Primary outflow = Inflow, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs

Summary for Link 506: Site Convergence

Inflow Area = 2,144.293 ac, 0.90% Impervious, Inflow Depth > 3.24" for 100-Year event
Inflow = 459.30 cfs @ 12.84 hrs, Volume= 578.097 af
Primary = 459.30 cfs @ 12.84 hrs, Volume= 578.097 af, Atten= 0%, Lag= 0.0 min
Routed to Reach 507 : Brushy Brook

Primary outflow = Inflow, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs

Summary for Link POST: Brushy Brook/Sawmill Road Crossing

Inflow Area = 2,295.293 ac, 0.97% Impervious, Inflow Depth > 3.26" for 100-Year event
Inflow = 450.10 cfs @ 13.01 hrs, Volume= 623.288 af
Primary = 450.10 cfs @ 13.01 hrs, Volume= 623.288 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs

Time span=0.00-100.00 hrs, dt=0.01 hrs, 10001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 3CAT: CAT Runoff Area=155.800 ac 0.10% Impervious Runoff Depth=3.36"
Flow Length=1,898' Tc=46.4 min CN=57 Runoff=272.41 cfs 43.659 af

Subcatchment 300: Subcat 300 Runoff Area=6.256 ac 0.00% Impervious Runoff Depth=3.25"
Flow Length=698' Tc=27.5 min CN=56 Runoff=13.59 cfs 1.693 af

Subcatchment 301: Subcat 301 Runoff Area=0.617 ac 32.74% Impervious Runoff Depth=5.26"
Flow Length=288' Tc=6.0 min CN=73 Runoff=3.79 cfs 0.270 af

Subcatchment 301.1: Lots 47 & 51 Runoff Area=0.046 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.47 cfs 0.032 af

Subcatchment 301.3: Lots 45, 46, & 50 Runoff Area=0.069 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.70 cfs 0.047 af

Subcatchment 301.5: Lots 48 & 49 Half of Runoff Area=0.057 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.58 cfs 0.039 af

Subcatchment 304: Subcat 304 Runoff Area=1.814 ac 8.43% Impervious Runoff Depth=3.95"
Flow Length=235' Tc=6.2 min CN=62 Runoff=8.29 cfs 0.597 af

Subcatchment 304.1: Lots 63, 64, & Half of Runoff Area=0.057 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.58 cfs 0.039 af

Subcatchment 305: Subcat 305 Runoff Area=0.027 ac 0.00% Impervious Runoff Depth=4.42"
Tc=0.0 min CN=66 Runoff=0.17 cfs 0.010 af

Subcatchment 307: Subcat 307 Runoff Area=1.076 ac 34.01% Impervious Runoff Depth=5.38"
Flow Length=267' Tc=6.0 min CN=74 Runoff=6.75 cfs 0.482 af

Subcatchment 309: Subcat 309 Runoff Area=0.886 ac 32.51% Impervious Runoff Depth=5.26"
Flow Length=319' Tc=6.4 min CN=73 Runoff=5.37 cfs 0.388 af

Subcatchment 310: Subcat 310 Runoff Area=0.057 ac 0.00% Impervious Runoff Depth=4.18"
Tc=0.0 min CN=64 Runoff=0.34 cfs 0.020 af

Subcatchment 312: Subcat 312 Runoff Area=0.426 ac 0.00% Impervious Runoff Depth=3.48"
Flow Length=221' Tc=6.2 min CN=58 Runoff=1.70 cfs 0.124 af

Subcatchment 313: Subcat 313 Runoff Area=0.212 ac 0.00% Impervious Runoff Depth=4.78"
Tc=0.0 min CN=69 Runoff=1.45 cfs 0.084 af

Subcatchment 313.1: Lot 62 Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.23 cfs 0.016 af

Subcatchment 315: Subcat 315 Runoff Area=0.243 ac 0.00% Impervious Runoff Depth=3.25"
Flow Length=243' Tc=17.4 min CN=56 Runoff=0.64 cfs 0.066 af

Subcatchment 316: Subcat 316 Runoff Area=0.445 ac 0.00% Impervious Runoff Depth=6.22"
Tc=0.0 min CN=81 Runoff=3.88 cfs 0.231 af

Subcatchment 318: Subcat 318 Runoff Area=0.486 ac 32.51% Impervious Runoff Depth=5.26"
Flow Length=382' Tc=6.0 min CN=73 Runoff=2.99 cfs 0.213 af

Subcatchment 321: Subcat 321 Runoff Area=2.324 ac 32.40% Impervious Runoff Depth=5.26"
Flow Length=123' Tc=6.5 min CN=73 Runoff=14.03 cfs 1.018 af

Subcatchment 321.1: Half of Lot 72 Runoff Area=0.011 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.11 cfs 0.008 af

Subcatchment 324: Subcat 324 Runoff Area=2.234 ac 25.51% Impervious Runoff Depth=4.78"
Flow Length=260' Tc=6.0 min CN=69 Runoff=12.52 cfs 0.889 af

Subcatchment 325: Subcat 325 Runoff Area=0.038 ac 0.00% Impervious Runoff Depth=4.42"
Tc=0.0 min CN=66 Runoff=0.24 cfs 0.014 af

Subcatchment 325.1: Lots 81 & 82 Runoff Area=0.046 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.47 cfs 0.032 af

Subcatchment 327: Subcat 327 Runoff Area=0.805 ac 0.00% Impervious Runoff Depth=3.36"
Flow Length=417' Tc=6.0 min CN=57 Runoff=3.11 cfs 0.226 af

Subcatchment 328: Subcat 328 Runoff Area=0.129 ac 0.00% Impervious Runoff Depth=5.38"
Tc=0.0 min CN=74 Runoff=0.99 cfs 0.058 af

Subcatchment 328.1: Lot 83 Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.23 cfs 0.016 af

Subcatchment 328.3: Lot 84 & Half of 85 Runoff Area=0.034 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.35 cfs 0.023 af

Subcatchment 330: Subcat 330 Runoff Area=0.071 ac 0.00% Impervious Runoff Depth=3.83"
Flow Length=80' Slope=0.0979 '/' Tc=6.0 min CN=61 Runoff=0.32 cfs 0.023 af

Subcatchment 331: Subcat 331 Runoff Area=0.490 ac 0.00% Impervious Runoff Depth=6.10"
Tc=0.0 min CN=80 Runoff=4.20 cfs 0.249 af

Subcatchment 333: Subcat 333 Runoff Area=12.560 ac 0.33% Impervious Runoff Depth=3.48"
Flow Length=1,068' Tc=8.7 min CN=58 Runoff=45.81 cfs 3.641 af

Subcatchment 334: Subcat 334 Runoff Area=1.962 ac 32.01% Impervious Runoff Depth=5.26"
Flow Length=1,330' Tc=6.0 min CN=73 Runoff=12.06 cfs 0.859 af

Subcatchment 334.1: Lots Runoff Area=0.138 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=1.41 cfs 0.095 af

Subcatchment 334.3: Lot 93 Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.23 cfs 0.016 af

Subcatchment 334.5: Lots 95-105, 109, Runoff Area=0.345 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=3.51 cfs 0.237 af

Subcatchment 334.7: Lot 106 Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.23 cfs 0.016 af

Subcatchment 337: Subcat 337 Runoff Area=26,746 sf 36.49% Impervious Runoff Depth=5.50"
Flow Length=326' Tc=6.0 min CN=75 Runoff=3.93 cfs 0.281 af

Subcatchment 339: Subcat 339 Runoff Area=0.702 ac 0.00% Impervious Runoff Depth=3.60"
Flow Length=145' Tc=11.6 min CN=59 Runoff=2.42 cfs 0.210 af

Subcatchment 339.1: Half of Lot 90 Runoff Area=0.011 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.11 cfs 0.008 af

Subcatchment 340: Subcat 340 Runoff Area=0.038 ac 0.00% Impervious Runoff Depth=4.66"
Tc=0.0 min CN=68 Runoff=0.25 cfs 0.015 af

Subcatchment 342: Subcat 342 Runoff Area=2.044 ac 33.27% Impervious Runoff Depth=5.26"
Flow Length=1,406' Tc=6.9 min CN=73 Runoff=12.17 cfs 0.895 af

Subcatchment 342.1: Lot 107 Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.23 cfs 0.016 af

Subcatchment 345: Subcat 345 Runoff Area=0.572 ac 35.84% Impervious Runoff Depth=5.38"
Flow Length=50' Slope=0.2213 '/' Tc=6.0 min CN=74 Runoff=3.59 cfs 0.256 af

Subcatchment 346: Subcat 346 Runoff Area=0.065 ac 0.00% Impervious Runoff Depth=3.95"
Tc=0.0 min CN=62 Runoff=0.36 cfs 0.021 af

Subcatchment 348: Subcat 348 Runoff Area=0.910 ac 0.00% Impervious Runoff Depth=3.48"
Flow Length=352' Tc=13.6 min CN=58 Runoff=2.85 cfs 0.264 af

Subcatchment 349: Subcat 349 Runoff Area=0.169 ac 0.00% Impervious Runoff Depth=4.30"
Tc=0.0 min CN=65 Runoff=1.04 cfs 0.061 af

Subcatchment 349.1: Lot 115 Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.23 cfs 0.016 af

Subcatchment 349.3: Lots 116 & 117 Runoff Area=0.046 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.47 cfs 0.032 af

Subcatchment 351: Subcat 351 Runoff Area=0.624 ac 0.00% Impervious Runoff Depth=4.18"
Tc=0.0 min CN=64 Runoff=3.74 cfs 0.218 af

Subcatchment 352.1: Half of 55, 65, 72, 85, Runoff Area=0.069 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.70 cfs 0.047 af

Subcatchment 352.3: Lots 56-60, 66, 68, Runoff Area=0.460 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=4.68 cfs 0.317 af

Subcatchment 353: Subcat 353 Runoff Area=4.008 ac 31.01% Impervious Runoff Depth=5.14"
Flow Length=2,082' Tc=6.5 min CN=72 Runoff=23.67 cfs 1.715 af

Subcatchment 353.1: Lot 134-136 Runoff Area=0.069 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.70 cfs 0.047 af

Subcatchment 355: Subcat 355 Runoff Area=7.910 ac 0.52% Impervious Runoff Depth=3.36"
Flow Length=1,048' Tc=20.8 min CN=57 Runoff=20.12 cfs 2.217 af

Subcatchment 356: Subcat 356 Runoff Area=0.051 ac 0.00% Impervious Runoff Depth=4.30"
Tc=0.0 min CN=65 Runoff=0.32 cfs 0.018 af

Subcatchment 356.1: Lots 130-132 Runoff Area=0.069 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.70 cfs 0.047 af

Subcatchment 356.3: Lot 133 Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.23 cfs 0.016 af

Subcatchment 356.5: Lots 127-129 & Runoff Area=0.172 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=1.75 cfs 0.118 af

Subcatchment 358: Subcat 358 Runoff Area=0.136 ac 0.00% Impervious Runoff Depth=5.50"
Tc=0.0 min CN=75 Runoff=1.06 cfs 0.062 af

Subcatchment 360: Subcat 360 Runoff Area=2.719 ac 0.00% Impervious Runoff Depth=3.13"
Flow Length=849' Tc=17.7 min CN=55 Runoff=6.82 cfs 0.710 af

Subcatchment 361: Subcat 361 Runoff Area=0.822 ac 0.00% Impervious Runoff Depth=6.46"
Tc=0.0 min CN=83 Runoff=7.37 cfs 0.442 af

Subcatchment 365: Subcat 365 Runoff Area=14.688 ac 0.00% Impervious Runoff Depth=3.36"
Flow Length=405' Tc=19.5 min CN=57 Runoff=38.44 cfs 4.116 af

Subcatchment 365.1: Lot 67 Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.23 cfs 0.016 af

Subcatchment 365.3: Lots 61, 69, 77-79, Runoff Area=0.161 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=1.64 cfs 0.111 af

Subcatchment 366: Subcat 366 Runoff Area=4.682 ac 0.00% Impervious Runoff Depth=3.36"
Flow Length=283' Tc=12.7 min CN=57 Runoff=14.49 cfs 1.312 af

Subcatchment 367: Subcat 367 Runoff Area=1.194 ac 0.00% Impervious Runoff Depth=1.90"
Flow Length=257' Tc=10.4 min CN=44 Runoff=1.92 cfs 0.189 af

Subcatchment 368: Subcat 368 Runoff Area=6.156 ac 0.00% Impervious Runoff Depth=3.36"
Flow Length=121' Tc=10.8 min CN=57 Runoff=20.17 cfs 1.725 af

Reach 303A: Swale D Avg. Flow Depth=0.71' Max Vel=4.38 fps Inflow=15.19 cfs 2.052 af
n=0.030 L=327.2' S=0.0235 '/' Capacity=80.81 cfs Outflow=15.15 cfs 2.052 af

Reach 303B: Swale D Avg. Flow Depth=1.00' Max Vel=3.08 fps Inflow=18.42 cfs 2.679 af
n=0.030 L=38.0' S=0.0079 '/' Capacity=46.84 cfs Outflow=18.42 cfs 2.679 af

Reach 317A: Wetland/Stream Avg. Flow Depth=0.51' Max Vel=1.96 fps Inflow=16.74 cfs 3.071 af
n=0.080 L=1,938.6' S=0.0605 '/' Capacity=627.13 cfs Outflow=15.50 cfs 3.071 af

Reach 317B: Wetland/Stream Avg. Flow Depth=1.77' Max Vel=3.46 fps Inflow=287.40 cfs 46.730 af
n=0.080 L=313.2' S=0.0393 '/' Capacity=505.24 cfs Outflow=287.07 cfs 46.730 af

Reach 320: Road Swale Avg. Flow Depth=0.25' Max Vel=3.79 fps Inflow=2.99 cfs 0.213 af
n=0.030 L=676.0' S=0.0567 '/' Capacity=125.47 cfs Outflow=2.77 cfs 0.213 af

Reach 320.1: Road Swale Avg. Flow Depth=0.58' Max Vel=6.55 fps Inflow=16.71 cfs 1.231 af
n=0.030 L=685.1' S=0.0664 '/' Capacity=135.84 cfs Outflow=16.22 cfs 1.231 af

Reach 323: Swale E Avg. Flow Depth=0.60' Max Vel=6.10 fps Inflow=16.26 cfs 1.237 af
n=0.030 L=187.0' S=0.0548 '/' Capacity=123.41 cfs Outflow=16.22 cfs 1.237 af

Reach 332A: Wetland Avg. Flow Depth=0.17' Max Vel=1.00 fps Inflow=8.11 cfs 1.867 af
n=0.080 L=485.8' S=0.0525 '/' Capacity=16,432.28 cfs Outflow=7.71 cfs 1.867 af

Reach 335: Road Swale Avg. Flow Depth=1.18' Max Vel=7.42 fps Inflow=58.84 cfs 4.785 af
n=0.030 L=89.9' S=0.0378 '/' Capacity=102.51 cfs Outflow=58.83 cfs 4.785 af

Reach 338A: Swale F Avg. Flow Depth=1.04' Max Vel=9.71 fps Inflow=62.48 cfs 5.066 af
n=0.030 L=118.4' S=0.0747 '/' Capacity=144.11 cfs Outflow=62.46 cfs 5.066 af

Reach 338B: Swale F Avg. Flow Depth=1.04' Max Vel=10.16 fps Inflow=64.73 cfs 5.282 af
n=0.030 L=108.0' S=0.0824 '/' Capacity=151.32 cfs Outflow=64.72 cfs 5.282 af

Reach 344: Swale Avg. Flow Depth=0.49' Max Vel=6.31 fps Inflow=12.27 cfs 0.901 af
n=0.030 L=239.5' S=0.0739 '/' Capacity=143.30 cfs Outflow=12.22 cfs 0.901 af

Reach 344A: Swale Avg. Flow Depth=0.61' Max Vel=5.75 fps Inflow=15.74 cfs 1.157 af
n=0.030 L=114.9' S=0.0479 '/' Capacity=115.33 cfs Outflow=15.72 cfs 1.157 af

Reach 352A: Upland Avg. Flow Depth=0.02' Max Vel=1.27 fps Inflow=0.69 cfs 0.037 af
n=0.030 L=356.4' S=0.1058 '/' Capacity=264.31 cfs Outflow=0.56 cfs 0.037 af

Reach 352B: Upland Avg. Flow Depth=0.04' Max Vel=2.37 fps Inflow=4.58 cfs 0.192 af
n=0.030 L=187.0' S=0.2118 '/' Capacity=185.54 cfs Outflow=4.39 cfs 0.192 af

Reach 352C: Wetland Avg. Flow Depth=0.34' Max Vel=1.95 fps Inflow=37.00 cfs 6.156 af
n=0.080 L=214.5' S=0.0797 '/' Capacity=1,215.81 cfs Outflow=36.93 cfs 6.156 af

Reach 354: Swale G Avg. Flow Depth=0.93' Max Vel=3.74 fps Inflow=23.99 cfs 1.749 af
n=0.030 L=310.0' S=0.0116 '/' Capacity=66.09 cfs Outflow=23.53 cfs 1.749 af

Reach 362A: Wetland Avg. Flow Depth=0.19' Max Vel=0.51 fps Inflow=4.65 cfs 2.299 af
n=0.080 L=163.6' S=0.0116 '/' Capacity=5,799.68 cfs Outflow=4.64 cfs 2.299 af

Reach 365A: Upland Avg. Flow Depth=0.04' Max Vel=1.44 fps Inflow=0.22 cfs 0.008 af
n=0.030 L=141.4' S=0.0693 '/' Capacity=206.29 cfs Outflow=0.21 cfs 0.008 af

Reach 365B: Upland Avg. Flow Depth=0.62' Max Vel=5.84 fps Inflow=38.50 cfs 4.124 af
n=0.030 L=1,125.5' S=0.0547 '/' Capacity=183.32 cfs Outflow=37.55 cfs 4.124 af

Reach 365C: Wetland Avg. Flow Depth=0.31' Max Vel=1.81 fps Inflow=37.91 cfs 4.190 af
n=0.080 L=734.6' S=0.0765 '/' Capacity=19,838.06 cfs Outflow=35.15 cfs 4.190 af

Reach 365D: Wetland Avg. Flow Depth=0.39' Max Vel=1.29 fps Inflow=35.15 cfs 4.190 af
n=0.080 L=140.0' S=0.0293 '/' Capacity=12,273.95 cfs Outflow=34.98 cfs 4.190 af

Reach 365E: Wetland Avg. Flow Depth=0.62' Max Vel=1.83 fps Inflow=41.75 cfs 6.057 af
n=0.080 L=385.1' S=0.0314 '/' Capacity=141.51 cfs Outflow=41.15 cfs 6.057 af

Reach 365F: Stream Avg. Flow Depth=2.32' Max Vel=3.62 fps Inflow=322.57 cfs 52.787 af
n=0.100 L=657.0' S=0.0597 '/' Capacity=135.25 cfs Outflow=320.20 cfs 52.787 af

Reach 366A: Wetland Avg. Flow Depth=0.30' Max Vel=2.09 fps Inflow=16.11 cfs 1.504 af
n=0.080 L=187.8' S=0.1070 '/' Capacity=12,003.67 cfs Outflow=15.95 cfs 1.504 af

Reach 366B: Wetland Avg. Flow Depth=0.33' Max Vel=1.79 fps Inflow=16.24 cfs 1.541 af
n=0.080 L=155.5' S=0.0675 '/' Capacity=9,534.40 cfs Outflow=16.13 cfs 1.541 af

Reach 367A: Wetland Avg. Flow Depth=0.12' Max Vel=0.33 fps Inflow=1.92 cfs 0.189 af
n=0.080 L=185.9' S=0.0086 '/' Capacity=4,992.74 cfs Outflow=1.47 cfs 0.189 af

Reach 368A: Wetland Avg. Flow Depth=0.26' Max Vel=1.52 fps Inflow=20.17 cfs 1.725 af
n=0.080 L=155.6' S=0.0675 '/' Capacity=1,118.59 cfs Outflow=19.83 cfs 1.725 af

Reach 368B: Stream Avg. Flow Depth=1.61' Max Vel=2.72 fps Inflow=66.20 cfs 9.422 af
n=0.100 L=1,788.3' S=0.0405 '/' Capacity=4,131.61 cfs Outflow=57.00 cfs 9.422 af

Reach 368C: Stream Avg. Flow Depth=2.46' Max Vel=1.23 fps Inflow=57.00 cfs 9.422 af
n=0.100 L=224.3' S=0.0049 '/' Capacity=1,436.98 cfs Outflow=56.65 cfs 9.422 af

Reach 368D: Stream Avg. Flow Depth=3.80' Max Vel=3.41 fps Inflow=370.38 cfs 62.209 af
n=0.100 L=1,451.6' S=0.0216 '/' Capacity=3,013.14 cfs Outflow=360.09 cfs 62.209 af

Reach 368E: Stream Avg. Flow Depth=4.17' Max Vel=2.87 fps Inflow=364.14 cfs 64.508 af
n=0.100 L=124.9' S=0.0136 '/' Capacity=2,393.94 cfs Outflow=364.05 cfs 64.508 af

Reach 368F: Stream Avg. Flow Depth=4.12' Max Vel=2.95 fps Inflow=364.66 cfs 64.697 af
n=0.100 L=157.2' S=0.0146 '/' Capacity=2,482.04 cfs Outflow=364.52 cfs 64.697 af

Pond 301.2: Drywell A (1.02 in/hr) (2' Deep) Peak Elev=1,000.28' Storage=88 cf Inflow=0.47 cfs 0.032 af
Discarded=0.00 cfs 0.007 af Primary=0.45 cfs 0.025 af Outflow=0.45 cfs 0.032 af

Pond 301.4: Drywell B (1.02 in/hr) (1' Deep) Peak Elev=1,000.28' Storage=111 cf Inflow=0.70 cfs 0.047 af
Discarded=0.01 cfs 0.014 af Primary=0.67 cfs 0.033 af Outflow=0.67 cfs 0.047 af

Pond 301.6: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=103 cf Inflow=0.58 cfs 0.039 af
Discarded=0.00 cfs 0.008 af Primary=0.57 cfs 0.031 af Outflow=0.57 cfs 0.039 af

Pond 302: 3 x 15" Pipe Peak Elev=379.58' Inflow=15.19 cfs 2.052 af
15.00" Round Culvert x 3.00 n=0.012 L=42.0' S=0.0050 '/' Outflow=15.19 cfs 2.052 af

Pond 304.2: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=103 cf Inflow=0.58 cfs 0.039 af
Discarded=0.00 cfs 0.008 af Primary=0.57 cfs 0.031 af Outflow=0.57 cfs 0.039 af

Pond 306: Forebay D North (367.5, 371) Peak Elev=370.29' Inflow=18.47 cfs 2.689 af
Primary=2.08 cfs 1.135 af Secondary=16.39 cfs 1.554 af Outflow=18.47 cfs 2.689 af

Pond 308: 2 x 18" Pipe Peak Elev=369.26' Inflow=6.75 cfs 0.482 af
18.00" Round Culvert x 2.00 n=0.013 L=59.0' S=0.0049 '/' Outflow=6.75 cfs 0.482 af

Pond 311: Forebay D South (364, 370) Peak Elev=369.25' Inflow=12.29 cfs 0.890 af
Outflow=12.29 cfs 0.890 af

Pond 313.2: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=41 cf Inflow=0.23 cfs 0.016 af
Discarded=0.00 cfs 0.003 af Primary=0.23 cfs 0.012 af Outflow=0.23 cfs 0.016 af

Pond 314: WQ Pond D (365.5, Peak Elev=369.25' Storage=13,927 cf Inflow=16.90 cfs 2.245 af
Discarded=0.31 cfs 0.334 af Primary=9.69 cfs 1.911 af Outflow=9.94 cfs 2.245 af

Pond 317: QP Pond D (366.5, 370.25) (2.41 Peak Elev=369.25' Storage=30,754 cf Inflow=27.67 cfs 3.762 af
Discarded=0.81 cfs 0.691 af Primary=16.73 cfs 3.071 af Secondary=0.00 cfs 0.000 af Outflow=17.55 cfs 3.762 af

Pond 319: 15" Pipe Peak Elev=381.74' Inflow=2.99 cfs 0.213 af
15.00" Round Culvert n=0.013 L=100.5' S=0.0343 '/' Outflow=2.99 cfs 0.213 af

Pond 321.2: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=21 cf Inflow=0.11 cfs 0.008 af
Discarded=0.00 cfs 0.002 af Primary=0.11 cfs 0.006 af Outflow=0.11 cfs 0.008 af

Pond 322: 24" Pipe Peak Elev=296.66' Inflow=16.26 cfs 1.237 af
24.00" Round Culvert n=0.013 L=110.5' S=0.0308 '/' Outflow=16.26 cfs 1.237 af

Pond 325.2: Drywell E (1.02 in/hr) (1' Deep) Peak Elev=1,000.10' Storage=68 cf Inflow=0.47 cfs 0.032 af
Discarded=0.00 cfs 0.009 af Primary=0.46 cfs 0.023 af Outflow=0.46 cfs 0.032 af

Pond 326: Forebay E (277.5, 282) Peak Elev=281.03' Inflow=28.37 cfs 2.163 af
Primary=11.43 cfs 1.479 af Secondary=16.93 cfs 0.684 af Outflow=28.37 cfs 2.163 af

Pond 328.2: Drywell A (1.02 in/hr) (2' Deep) Peak Elev=1,000.28' Storage=44 cf Inflow=0.23 cfs 0.016 af
Discarded=0.00 cfs 0.003 af Primary=0.22 cfs 0.012 af Outflow=0.22 cfs 0.016 af

Pond 328.4: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=62 cf Inflow=0.35 cfs 0.023 af
Discarded=0.00 cfs 0.005 af Primary=0.34 cfs 0.018 af Outflow=0.34 cfs 0.023 af

Pond 329: WQ Pond E (279, 282)(1.02in/hr) Peak Elev=280.79' Storage=4,916 cf Inflow=15.16 cfs 1.793 af
Discarded=0.08 cfs 0.202 af Primary=15.04 cfs 1.590 af Outflow=15.12 cfs 1.793 af

Pond 332: QP Pond E (276.50, 281) (1.02 Peak Elev=280.04' Storage=46,239 cf Inflow=33.99 cfs 2.546 af
Discarded=0.38 cfs 0.679 af Primary=7.52 cfs 1.860 af Secondary=0.59 cfs 0.006 af Outflow=8.49 cfs 2.546 af

Pond 334.2: Drywell A (1.02 in/hr) (2' Deep) Peak Elev=1,000.28' Storage=264 cf Inflow=1.41 cfs 0.095 af
Discarded=0.01 cfs 0.021 af Primary=1.34 cfs 0.074 af Outflow=1.34 cfs 0.095 af

Pond 334.4: Drywell B (1.02 in/hr) (1' Deep) Peak Elev=1,000.28' Storage=37 cf Inflow=0.23 cfs 0.016 af
Discarded=0.00 cfs 0.005 af Primary=0.22 cfs 0.011 af Outflow=0.22 cfs 0.016 af

Pond 334.6: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=620 cf Inflow=3.51 cfs 0.237 af
Discarded=0.02 cfs 0.050 af Primary=3.45 cfs 0.187 af Outflow=3.47 cfs 0.237 af

Pond 334.8: Drywell E (1.02 in/hr) (1' Deep) Peak Elev=1,000.10' Storage=34 cf Inflow=0.23 cfs 0.016 af
Discarded=0.00 cfs 0.005 af Primary=0.23 cfs 0.011 af Outflow=0.23 cfs 0.016 af

Pond 336: 3 x 30" Pipe Peak Elev=311.14' Inflow=58.83 cfs 4.785 af
30.00" Round Culvert x 3.00 n=0.012 L=42.2' S=0.0751 '/' Outflow=58.83 cfs 4.785 af

Pond 339.2: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=21 cf Inflow=0.11 cfs 0.008 af
Discarded=0.00 cfs 0.002 af Primary=0.11 cfs 0.006 af Outflow=0.11 cfs 0.008 af

Pond 341: Forebay F East (284.0, 289) Peak Elev=288.07' Inflow=64.82 cfs 5.297 af
Primary=2.57 cfs 1.751 af Secondary=62.25 cfs 3.546 af Outflow=64.82 cfs 5.297 af

Pond 342.2: Drywell C (1.02 in/hr) (0.5' Deep) Peak Elev=1,000.10' Storage=117 cf Inflow=0.23 cfs 0.016 af
Discarded=0.01 cfs 0.010 af Primary=0.22 cfs 0.005 af Outflow=0.23 cfs 0.016 af

Pond 343: 2X 15" Pipe Peak Elev=309.86' Inflow=12.27 cfs 0.901 af
15.00" Round Culvert x 2.00 n=0.012 L=44.8' S=0.0049 '/' Outflow=12.27 cfs 0.901 af

Pond 347: Forebay F West (278, 287) Peak Elev=286.12' Inflow=15.88 cfs 1.178 af
Primary=0.66 cfs 0.074 af Secondary=15.88 cfs 1.104 af Outflow=15.88 cfs 1.178 af

Pond 349.2: Drywell A (1.02 in/hr) (2' Deep) Peak Elev=1,000.28' Storage=44 cf Inflow=0.23 cfs 0.016 af
Discarded=0.00 cfs 0.003 af Primary=0.22 cfs 0.012 af Outflow=0.22 cfs 0.016 af

Pond 349.4: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=83 cf Inflow=0.47 cfs 0.032 af
Discarded=0.00 cfs 0.007 af Primary=0.46 cfs 0.025 af Outflow=0.46 cfs 0.032 af

Pond 350: WQ Pond F (283, 287)(2.41in/hr) Peak Elev=286.13' Storage=14,051 cf Inflow=5.97 cfs 2.187 af
Discarded=0.33 cfs 0.673 af Primary=5.52 cfs 1.514 af Outflow=5.84 cfs 2.187 af

Pond 352: QP Pond F (280, 287.1) (0.482 Peak Elev=286.12' Storage=79,110 cf Inflow=84.45 cfs 6.381 af
Discarded=0.00 cfs 0.000 af Primary=36.76 cfs 6.154 af Secondary=0.24 cfs 0.001 af Outflow=37.00 cfs 6.156 af

Pond 352.2: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=124 cf Inflow=0.70 cfs 0.047 af
Discarded=0.00 cfs 0.010 af Primary=0.69 cfs 0.037 af Outflow=0.69 cfs 0.047 af

Pond 352.4: Drywell H (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=1,565 cf Inflow=4.68 cfs 0.317 af
Discarded=0.05 cfs 0.125 af Primary=4.58 cfs 0.192 af Outflow=4.63 cfs 0.317 af

Pond 353.2: Drywell B (1.02 in/hr) (1' Deep) Peak Elev=1,000.28' Storage=111 cf Inflow=0.70 cfs 0.047 af
Discarded=0.01 cfs 0.014 af Primary=0.67 cfs 0.033 af Outflow=0.67 cfs 0.047 af

Pond 356.2: Drywell A (1.02 in/hr) (2' Deep) Peak Elev=1,000.28' Storage=132 cf Inflow=0.70 cfs 0.047 af
Discarded=0.00 cfs 0.010 af Primary=0.67 cfs 0.037 af Outflow=0.67 cfs 0.047 af

Pond 356.4: Drywell C (1.02 in/hr) (0.5' Deep) Peak Elev=1,000.24' Storage=66 cf Inflow=0.23 cfs 0.016 af
Discarded=0.00 cfs 0.007 af Primary=0.21 cfs 0.009 af Outflow=0.21 cfs 0.016 af

Pond 356.6: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.07' Storage=596 cf Inflow=1.75 cfs 0.118 af
Discarded=0.02 cfs 0.047 af Primary=1.71 cfs 0.072 af Outflow=1.73 cfs 0.118 af

Pond 357: Forebay G (162.5, 167.5) Peak Elev=166.20' Inflow=36.60 cfs 4.101 af
Primary=9.43 cfs 2.293 af Secondary=27.17 cfs 1.808 af Outflow=36.60 cfs 4.101 af

Pond 359: WQ Pond G (162, 165.75) Peak Elev=164.77' Storage=8,942 cf Inflow=9.85 cfs 2.356 af
Discarded=0.24 cfs 0.312 af Primary=9.50 cfs 2.044 af Outflow=9.68 cfs 2.356 af

Pond 362: QP Pond G (161, 165.75) (2.41 Peak Elev=164.77' Storage=100,483 cf Inflow=44.59 cfs 5.003 af
Discarded=1.69 cfs 2.704 af Primary=4.44 cfs 2.291 af Secondary=0.20 cfs 0.008 af Outflow=6.34 cfs 5.003 af

Pond 365.2: Drywell G (1.02 in/hr) (1' Deep) Peak Elev=1,000.27' Storage=68 cf Inflow=0.23 cfs 0.016 af
Discarded=0.00 cfs 0.008 af Primary=0.22 cfs 0.008 af Outflow=0.22 cfs 0.016 af

Pond 365.4: Drywell F (1.02 in/hr) (2' Deep) Peak Elev=1,000.28' Storage=575 cf Inflow=1.64 cfs 0.111 af
Discarded=0.02 cfs 0.045 af Primary=1.55 cfs 0.066 af Outflow=1.57 cfs 0.111 af

Link 369: DP-3 Central Wetland Inflow=364.52 cfs 64.697 af
Primary=364.52 cfs 64.697 af

Summary for Subcatchment 3CAT: CAT

Runoff = 272.41 cfs @ 12.68 hrs, Volume= 43.659 af, Depth= 3.36"
Routed to Reach 317B : Wetland/Stream

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
101.609	55	Woods, Good, HSG B
0.150	98	Impervious, HSG B
0.000	98	Water Surface, 0% imp, HSG B
54.041	61	>75% Grass cover, Good, HSG B
155.800	57	Weighted Average
155.650	57	99.90% Pervious Area
0.150	98	0.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
40.1	300	0.0363	0.12		**Sheet Flow, A** Woods: Light underbrush n= 0.400 P2= 3.30"
6.3	1,598	0.0683	4.21		**Shallow Concentrated Flow, B** Unpaved Kv= 16.1 fps
46.4	1,898	Total			

Summary for Subcatchment 300: Subcat 300

Runoff = 13.59 cfs @ 12.40 hrs, Volume= 1.693 af, Depth= 3.25"
Routed to Pond 302 : 3 x 15" Pipe

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
1.172	61	>75% Grass cover, Good, HSG B
0.000	98	Roofs, HSG B
5.084	55	Woods, Good, HSG B
6.256	56	Weighted Average
6.256	56	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.7	100	0.0150	0.07		**Sheet Flow, A** Woods: Light underbrush n= 0.400 P2= 3.30"
3.0	506	0.0306	2.82		**Shallow Concentrated Flow, B** Unpaved Kv= 16.1 fps
0.8	92	0.0019	1.91	22.98	**Trap/Vee/Rect Channel Flow, C** Bot.W=2.00' D=1.50' Z= 4.0 '/' Top.W=14.00' n= 0.030
27.5	698	Total			

Summary for Subcatchment 301: Subcat 301

Runoff = 3.79 cfs @ 12.09 hrs, Volume= 0.270 af, Depth= 5.26"
Routed to Pond 302 : 3 x 15" Pipe

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.402	61	>75% Grass cover, Good, HSG B
0.202	98	Impervious, HSG B
0.000	98	Roofs, HSG B
0.013	55	Woods, Good, HSG B
0.617	73	Weighted Average
0.415	61	67.26% Pervious Area
0.202	98	32.74% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	62	0.0581	0.24		**Sheet Flow, A** Grass: Short n= 0.150 P2= 3.30"
0.6	226	0.0190	6.05	72.66	**Trap/Vee/Rect Channel Flow, B** Bot.W=2.00' D=1.50' Z= 4.0 '/' Top.W=14.00' n= 0.030
1.1					**Direct Entry,**
6.0	288	Total			

Summary for Subcatchment 301.1: Lots 47 & 51

Runoff = 0.47 cfs @ 12.00 hrs, Volume= 0.032 af, Depth= 8.26"
Routed to Pond 301.2 : Drywell A (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.046	98	Roofs, HSG B
0.046	98	100.00% Impervious Area

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

Summary for Subcatchment 301.3: Lots 45, 46, & 50

Runoff = 0.70 cfs @ 12.00 hrs, Volume= 0.047 af, Depth= 8.26"
Routed to Pond 301.4 : Drywell B (1.02 in/hr) (1' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.069	98	Roofs, HSG B
0.069	98	100.00% Impervious Area

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

Summary for Subcatchment 301.5: Lots 48 & 49 Half of 52

Runoff = 0.58 cfs @ 12.00 hrs, Volume= 0.039 af, Depth= 8.26"
Routed to Pond 301.6 : Drywell D (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.057	98	Roofs, HSG B
0.057	98	100.00% Impervious Area

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

Summary for Subcatchment 304: Subcat 304

Runoff = 8.29 cfs @ 12.09 hrs, Volume= 0.597 af, Depth= 3.95"
Routed to Reach 303B : Swale D

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.931	61	>75% Grass cover, Good, HSG B
0.153	98	Impervious, HSG B
0.000	98	Roofs, HSG B
0.730	55	Woods, Good, HSG B
1.814	62	Weighted Average
1.661	58	91.57% Pervious Area
0.153	98	8.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	100	0.0790	0.30		**Sheet Flow, A** Grass: Short n= 0.150 P2= 3.30"
0.6	135	0.0512	3.64		**Shallow Concentrated Flow, B** Unpaved Kv= 16.1 fps
6.2	235	Total			

Summary for Subcatchment 304.1: Lots 63, 64, & Half of 65

Runoff = 0.58 cfs @ 12.00 hrs, Volume= 0.039 af, Depth= 8.26"
Routed to Pond 304.2 : Drywell D (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.057	98	Roofs, HSG B
0.057	98	100.00% Impervious Area

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

Summary for Subcatchment 305: Subcat 305

Runoff = 0.17 cfs @ 12.00 hrs, Volume= 0.010 af, Depth= 4.42"
Routed to Pond 306 : Forebay D North (367.5, 371)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.023	61	>75% Grass cover, Good, HSG B
0.004	98	Water Surface, 0% imp, HSG B
0.027	66	Weighted Average
0.027	66	100.00% Pervious Area

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

Summary for Subcatchment 307: Subcat 307

Runoff = 6.75 cfs @ 12.09 hrs, Volume= 0.482 af, Depth= 5.38"
Routed to Pond 308 : 2 x 18" Pipe

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

	Area (ac)	CN	Description
	0.698	61	>75% Grass cover, Good, HSG B
	0.363	98	Impervious, HSG B
	0.000	98	Roofs, HSG B
	0.012	55	Woods, Good, HSG B
*	0.003	98	Paved Waterways, HSG B
	1.076	74	Weighted Average
	0.710	61	65.99% Pervious Area
	0.366	98	34.01% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.6	50	0.0317	0.18		**Sheet Flow, A** Grass: Short n= 0.150 P2= 3.30"
0.7	217	0.0138	5.16	61.92	**Trap/Vee/Rect Channel Flow, B** Bot.W=2.00' D=1.50' Z= 4.0 '/' Top.W=14.00' n= 0.030
0.7					**Direct Entry,**
6.0	267	Total			

Summary for Subcatchment 309: Subcat 309

Runoff = 5.37 cfs @ 12.09 hrs, Volume= 0.388 af, Depth= 5.26"
Routed to Pond 311 : Forebay D South (364, 370)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

	Area (ac)	CN	Description
	0.598	61	>75% Grass cover, Good, HSG B
	0.285	98	Impervious, HSG B
	0.000	98	Roofs, HSG B
	0.000	55	Woods, Good, HSG B
*	0.003	98	Paved Waterways, HSG B
	0.886	73	Weighted Average
	0.598	61	67.49% Pervious Area
	0.288	98	32.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	73	0.0354	0.20		**Sheet Flow, A** Grass: Short n= 0.150 P2= 3.30"
0.0	13	0.0673	5.27		**Shallow Concentrated Flow, B** Paved Kv= 20.3 fps
0.4	233	0.0506	9.88	118.57	**Trap/Vee/Rect Channel Flow, C** Bot.W=2.00' D=1.50' Z= 4.0 '/' Top.W=14.00' n= 0.030
6.4	319	Total			

Summary for Subcatchment 310: Subcat 310

Runoff = 0.34 cfs @ 12.00 hrs, Volume= 0.020 af, Depth= 4.18"
Routed to Pond 311 : Forebay D South (364, 370)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.053	61	>75% Grass cover, Good, HSG B
0.004	98	Water Surface, 0% imp, HSG B
0.057	64	Weighted Average
0.057	64	100.00% Pervious Area

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

Summary for Subcatchment 312: Subcat 312

Runoff = 1.70 cfs @ 12.09 hrs, Volume= 0.124 af, Depth= 3.48"
Routed to Pond 314 : WQ Pond D (365.5, 370.25)(2.41in/hr)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.218	61	>75% Grass cover, Good, HSG B
0.000	98	Roofs, HSG B
0.208	55	Woods, Good, HSG B
0.426	58	Weighted Average
0.426	58	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	100	0.0738	0.29		**Sheet Flow, A** Grass: Short n= 0.150 P2= 3.30"
0.5	121	0.0570	3.84		**Shallow Concentrated Flow, B** Unpaved Kv= 16.1 fps
6.2	221	Total			

Summary for Subcatchment 313: Subcat 313

Runoff = 1.45 cfs @ 12.00 hrs, Volume= 0.084 af, Depth= 4.78"
Routed to Pond 314 : WQ Pond D (365.5, 370.25)(2.41in/hr)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.166	61	>75% Grass cover, Good, HSG B
0.046	98	Water Surface, 0% imp, HSG B
0.212	69	Weighted Average
0.212	69	100.00% Pervious Area

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

Summary for Subcatchment 313.1: Lot 62

Runoff = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af, Depth= 8.26"
Routed to Pond 313.2 : Drywell D (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.023	98	Roofs, HSG B
0.023	98	100.00% Impervious Area

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

Summary for Subcatchment 315: Subcat 315

Runoff = 0.64 cfs @ 12.25 hrs, Volume= 0.066 af, Depth= 3.25"
Routed to Pond 317 : QP Pond D (366.5, 370.25) (2.41 in/hr)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.039	61	>75% Grass cover, Good, HSG B
0.203	55	Woods, Good, HSG B
0.243	56	Weighted Average
0.243	56	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.7	100	0.0360	0.10		**Sheet Flow, A** Woods: Light underbrush n= 0.400 P2= 3.30"
0.7	143	0.0418	3.29		**Shallow Concentrated Flow, B** Unpaved Kv= 16.1 fps
17.4	243	Total			

Summary for Subcatchment 316: Subcat 316

Runoff = 3.88 cfs @ 12.00 hrs, Volume= 0.231 af, Depth= 6.22"
Routed to Pond 317 : QP Pond D (366.5, 370.25) (2.41 in/hr)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.202	61	>75% Grass cover, Good, HSG B
0.243	98	Water Surface, 0% imp, HSG B
0.445	81	Weighted Average
0.445	81	100.00% Pervious Area

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

Summary for Subcatchment 318: Subcat 318

Runoff = 2.99 cfs @ 12.09 hrs, Volume= 0.213 af, Depth= 5.26"
Routed to Pond 319 : 15" Pipe

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.328	61	>75% Grass cover, Good, HSG B
0.158	98	Impervious, HSG B
0.000	98	Roofs, HSG B
0.486	73	Weighted Average
0.328	61	67.49% Pervious Area
0.158	98	32.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.8	46	0.0961	0.28		**Sheet Flow, A** Grass: Short n= 0.150 P2= 3.30"
0.8	336	0.0280	7.35	88.20	**Trap/Vee/Rect Channel Flow, B** Bot.W=2.00' D=1.50' Z= 4.0 '/' Top.W=14.00' n= 0.030
2.4					**Direct Entry,**
6.0	382	Total			

Summary for Subcatchment 321: Subcat 321

Runoff = 14.03 cfs @ 12.09 hrs, Volume= 1.018 af, Depth= 5.26"
Routed to Reach 320.1 : Road Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

	Area (ac)	CN	Description
	1.571	61	>75% Grass cover, Good, HSG B
	0.655	98	Impervious, HSG B
	0.092	98	Roofs, HSG B
*	0.006	98	Paved Waterways, HSG B
	2.324	73	Weighted Average
	1.571	61	67.60% Pervious Area
	0.753	98	32.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	100	0.0548	0.26		**Sheet Flow, A** Grass: Short n= 0.150 P2= 3.30"
0.1	23	0.2247	7.63		**Shallow Concentrated Flow, B** Unpaved Kv= 16.1 fps
6.5	123	Total			

Summary for Subcatchment 321.1: Half of Lot 72

Runoff = 0.11 cfs @ 12.00 hrs, Volume= 0.008 af, Depth= 8.26"
Routed to Pond 321.2 : Drywell D (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.011	98	Roofs, HSG B
0.011	98	100.00% Impervious Area

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

Summary for Subcatchment 324: Subcat 324

Runoff = 12.52 cfs @ 12.09 hrs, Volume= 0.889 af, Depth= 4.78"
Routed to Pond 326 : Forebay E (277.5, 282)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
1.218	61	>75% Grass cover, Good, HSG B
0.567	98	Impervious, HSG B
0.000	98	Roofs, HSG B
0.446	55	Woods, Good, HSG B
* 0.003	98	Paved Waterways, HSG B
2.234	69	Weighted Average
1.664	59	74.49% Pervious Area
0.570	98	25.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.4	100	0.1415	0.38		**Sheet Flow, A** Grass: Short n= 0.150 P2= 3.30"
0.7	160	0.0610	3.98		**Shallow Concentrated Flow, B** Unpaved Kv= 16.1 fps
0.9					**Direct Entry,**
6.0	260	Total			

Summary for Subcatchment 325: Subcat 325

Runoff = 0.24 cfs @ 12.00 hrs, Volume= 0.014 af, Depth= 4.42"
Routed to Pond 326 : Forebay E (277.5, 282)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.032	61	>75% Grass cover, Good, HSG B
0.005	98	Water Surface, 0% imp, HSG B
0.038	66	Weighted Average
0.038	66	100.00% Pervious Area

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

Summary for Subcatchment 325.1: Lots 81 & 82

Runoff = 0.47 cfs @ 12.00 hrs, Volume= 0.032 af, Depth= 8.26"
Routed to Pond 325.2 : Drywell E (1.02 in/hr) (1' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.046	98	Roofs, HSG B
0.046	98	100.00% Impervious Area

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

Summary for Subcatchment 327: Subcat 327

Runoff = 3.11 cfs @ 12.09 hrs, Volume= 0.226 af, Depth= 3.36"
Routed to Pond 329 : WQ Pond E (279, 282)(1.02in/hr)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.263	61	>75% Grass cover, Good, HSG B
0.000	98	Roofs, HSG B
0.542	55	Woods, Good, HSG B
0.805	57	Weighted Average
0.805	57	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	100	0.1923	0.43		**Sheet Flow, A** Grass: Short n= 0.150 P2= 3.30"
1.2	317	0.0813	4.59		**Shallow Concentrated Flow, B** Unpaved Kv= 16.1 fps
0.9					**Direct Entry,**
6.0	417	Total			

Summary for Subcatchment 328: Subcat 328

Runoff = 0.99 cfs @ 12.00 hrs, Volume= 0.058 af, Depth= 5.38"
Routed to Pond 329 : WQ Pond E (279, 282)(1.02in/hr)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.083	61	>75% Grass cover, Good, HSG B
0.046	98	Water Surface, 0% imp, HSG B
0.129	74	Weighted Average
0.129	74	100.00% Pervious Area

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

Summary for Subcatchment 328.1: Lot 83

Runoff = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af, Depth= 8.26"
Routed to Pond 328.2 : Drywell A (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.023	98	Roofs, HSG B
0.023	98	100.00% Impervious Area

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

Summary for Subcatchment 328.3: Lot 84 & Half of 85

Runoff = 0.35 cfs @ 12.00 hrs, Volume= 0.023 af, Depth= 8.26"
Routed to Pond 328.4 : Drywell D (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.034	98	Roofs, HSG B
0.034	98	100.00% Impervious Area

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

Summary for Subcatchment 330: Subcat 330

Runoff = 0.32 cfs @ 12.09 hrs, Volume= 0.023 af, Depth= 3.83"
Routed to Pond 332 : QP Pond E (276.50, 281) (1.02 in/hr)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.071	61	>75% Grass cover, Good, HSG B
0.071	61	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	80	0.0979	0.31		**Sheet Flow, A**
					Grass: Short n= 0.150 P2= 3.30"
1.7					**Direct Entry,**
6.0	80	Total			

Summary for Subcatchment 331: Subcat 331

Runoff = 4.20 cfs @ 12.00 hrs, Volume= 0.249 af, Depth= 6.10"
Routed to Pond 332 : QP Pond E (276.50, 281) (1.02 in/hr)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.239	61	>75% Grass cover, Good, HSG B
0.251	98	Water Surface, 0% imp, HSG B
0.490	80	Weighted Average
0.490	80	100.00% Pervious Area

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

Summary for Subcatchment 333: Subcat 333

Runoff = 45.81 cfs @ 12.13 hrs, Volume= 3.641 af, Depth= 3.48"
Routed to Reach 335 : Road Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
4.984	61	>75% Grass cover, Good, HSG B
0.041	98	Roofs, HSG B
7.535	55	Woods, Good, HSG B
12.560	58	Weighted Average
12.519	57	99.67% Pervious Area
0.041	98	0.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	100	0.1089	0.34		**Sheet Flow, A**
					Grass: Short n= 0.150 P2= 3.30"
3.8	968	0.0700	4.26		**Shallow Concentrated Flow, B**
					Unpaved Kv= 16.1 fps
8.7	1,068	Total			

Summary for Subcatchment 334: Subcat 334

Runoff = 12.06 cfs @ 12.09 hrs, Volume= 0.859 af, Depth= 5.26"
Routed to Reach 335 : Road Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

	Area (ac)	CN	Description
	1.334	61	>75% Grass cover, Good, HSG B
	0.622	98	Impervious, HSG B
	0.000	98	Roofs, HSG B
*	0.006	98	Paved Waterways, HSG B
	1.962	73	Weighted Average
	1.334	61	67.99% Pervious Area
	0.628	98	32.01% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	63	0.0730	0.26		**Sheet Flow, A** Grass: Short n= 0.150 P2= 3.30"
2.0	1,267	0.0579	10.57	126.84	**Trap/Vee/Rect Channel Flow, B** Bot.W=2.00' D=1.50' Z= 4.0 '/' Top.W=14.00' n= 0.030
6.0	1,330	Total			

Summary for Subcatchment 334.1: Lots 91,92,94,108,111,114

Runoff = 1.41 cfs @ 12.00 hrs, Volume= 0.095 af, Depth= 8.26"
Routed to Pond 334.2 : Drywell A (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.138	98	Roofs, HSG B
0.138	98	100.00% Impervious Area

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

Summary for Subcatchment 334.3: Lot 93

Runoff = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af, Depth= 8.26"
Routed to Pond 334.4 : Drywell B (1.02 in/hr) (1' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.023	98	Roofs, HSG B
0.023	98	100.00% Impervious Area

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

Summary for Subcatchment 334.5: Lots 95-105, 109, 110, 112, 113

Runoff = 3.51 cfs @ 12.00 hrs, Volume= 0.237 af, Depth= 8.26"
Routed to Pond 334.6 : Drywell D (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.345	98	Roofs, HSG B
0.345	98	100.00% Impervious Area

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

Summary for Subcatchment 334.7: Lot 106

Runoff = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af, Depth= 8.26"
Routed to Pond 334.8 : Drywell E (1.02 in/hr) (1' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.023	98	Roofs, HSG B
0.023	98	100.00% Impervious Area

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

Summary for Subcatchment 337: Subcat 337

Runoff = 3.93 cfs @ 12.09 hrs, Volume= 0.281 af, Depth= 5.50"
Routed to Reach 338A : Swale F

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

	Area (sf)	CN	Description
	16,987	61	>75% Grass cover, Good, HSG B
	9,627	98	Impervious, HSG B
*	132	98	Paved Waterways, HSG B
	26,746	75	Weighted Average
	16,987	61	63.51% Pervious Area
	9,759	98	36.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.3	41	0.1245	0.30		**Sheet Flow, A** Grass: Short n= 0.150 P2= 3.30"
0.4	285	0.0769	12.18	146.17	**Trap/Vee/Rect Channel Flow, B** Bot.W=2.00' D=1.50' Z= 4.0 '/' Top.W=14.00' n= 0.030
3.3					**Direct Entry,**
6.0	326	Total			

Summary for Subcatchment 339: Subcat 339

Runoff = 2.42 cfs @ 12.17 hrs, Volume= 0.210 af, Depth= 3.60"
Routed to Reach 338B : Swale F

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.487	61	>75% Grass cover, Good, HSG B
0.215	55	Woods, Good, HSG B
0.702	59	Weighted Average
0.702	59	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	97	0.0859	0.14		**Sheet Flow, A** Woods: Light underbrush n= 0.400 P2= 3.30"
0.1	48	0.2056	7.30		**Shallow Concentrated Flow, B** Unpaved Kv= 16.1 fps
11.6	145	Total			

Summary for Subcatchment 339.1: Half of Lot 90

Runoff = 0.11 cfs @ 12.00 hrs, Volume= 0.008 af, Depth= 8.26"
Routed to Pond 339.2 : Drywell D (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.011	98	Roofs, HSG B
0.011	98	100.00% Impervious Area

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

Summary for Subcatchment 340: Subcat 340

Runoff = 0.25 cfs @ 12.00 hrs, Volume= 0.015 af, Depth= 4.66"
Routed to Pond 341 : Forebay F East (284.0, 289)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.031	61	>75% Grass cover, Good, HSG B
0.007	98	Water Surface, 0% imp, HSG B
0.038	68	Weighted Average
0.038	68	100.00% Pervious Area

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

Summary for Subcatchment 342: Subcat 342

Runoff = 12.17 cfs @ 12.10 hrs, Volume= 0.895 af, Depth= 5.26"
Routed to Pond 343 : 2X 15" Pipe

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

	Area (ac)	CN	Description
	1.364	61	>75% Grass cover, Good, HSG B
	0.674	98	Impervious, HSG B
	0.000	98	Roofs, HSG B
*	0.006	98	Paved Waterways, HSG B
	2.044	73	Weighted Average
	1.364	61	66.73% Pervious Area
	0.680	98	33.27% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.8	91	0.0936	0.31		**Sheet Flow, A** Grass: Short n= 0.150 P2= 3.30"
2.1	1,315	0.0578	10.56	126.73	**Trap/Vee/Rect Channel Flow, B** Bot.W=2.00' D=1.50' Z= 4.0 '/' Top.W=14.00' n= 0.030

6.9	1,406	Total

Summary for Subcatchment 342.1: Lot 107

Runoff = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af, Depth= 8.26"
Routed to Pond 342.2 : Drywell C (1.02 in/hr) (0.5' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.023	98	Roofs, HSG B
0.023	98	100.00% Impervious Area

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

Summary for Subcatchment 345: Subcat 345

Runoff = 3.59 cfs @ 12.09 hrs, Volume= 0.256 af, Depth= 5.38"
Routed to Reach 344A : Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

	Area (ac)	CN	Description
	0.367	61	>75% Grass cover, Good, HSG B
	0.202	98	Impervious, HSG B
	0.000	98	Roofs, HSG B
*	0.003	98	Paved Waterways, HSG B
	0.572	74	Weighted Average
	0.367	61	64.16% Pervious Area
	0.205	98	35.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.1	50	0.2213	0.39		**Sheet Flow, A** Grass: Short n= 0.150 P2= 3.30"
3.9					**Direct Entry,**
6.0	50	Total			

Summary for Subcatchment 346: Subcat 346

Runoff = 0.36 cfs @ 12.00 hrs, Volume= 0.021 af, Depth= 3.95"
Routed to Pond 347 : Forebay F West (278, 287)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.063	61	>75% Grass cover, Good, HSG B
0.002	98	Water Surface, 0% imp, HSG B
0.065	62	Weighted Average
0.065	62	100.00% Pervious Area

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

Summary for Subcatchment 348: Subcat 348

Runoff = 2.85 cfs @ 12.19 hrs, Volume= 0.264 af, Depth= 3.48"
Routed to Pond 350 : WQ Pond F (283, 287)(2.41in/hr)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.421	61	>75% Grass cover, Good, HSG B
0.000	98	Roofs, HSG B
0.489	55	Woods, Good, HSG B
0.910	58	Weighted Average
0.910	58	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.7	100	0.0717	0.13		**Sheet Flow, A** Woods: Light underbrush n= 0.400 P2= 3.30"
0.3	64	0.0583	3.89		**Shallow Concentrated Flow, B** Unpaved Kv= 16.1 fps
0.6	188	0.0585	5.68	11.36	**Trap/Vee/Rect Channel Flow, C** Bot.W=2.00' D=0.50' Z= 4.0 '/' Top.W=6.00' n= 0.030
13.6	352	Total			

Summary for Subcatchment 349: Subcat 349

Runoff = 1.04 cfs @ 12.00 hrs, Volume= 0.061 af, Depth= 4.30"
Routed to Pond 350 : WQ Pond F (283, 287)(2.41in/hr)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.150	61	>75% Grass cover, Good, HSG B
0.019	98	Water Surface, 0% imp, HSG B
0.169	65	Weighted Average
0.169	65	100.00% Pervious Area

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

Summary for Subcatchment 349.1: Lot 115

Runoff = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af, Depth= 8.26"
Routed to Pond 349.2 : Drywell A (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.023	98	Roofs, HSG B
0.023	98	100.00% Impervious Area

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

Summary for Subcatchment 349.3: Lots 116 & 117

Runoff = 0.47 cfs @ 12.00 hrs, Volume= 0.032 af, Depth= 8.26"
Routed to Pond 349.4 : Drywell D (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.046	98	Roofs, HSG B
0.046	98	100.00% Impervious Area

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

Summary for Subcatchment 351: Subcat 351

Runoff = 3.74 cfs @ 12.00 hrs, Volume= 0.218 af, Depth= 4.18"
Routed to Pond 352 : QP Pond F (280, 287.1) (0.482 in/hr)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.570	61	>75% Grass cover, Good, HSG B
0.054	98	Water Surface, 0% imp, HSG B
0.624	64	Weighted Average
0.624	64	100.00% Pervious Area

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

Summary for Subcatchment 352.1: Half of 55, 65, 72, 85, 90, 126

Runoff = 0.70 cfs @ 12.00 hrs, Volume= 0.047 af, Depth= 8.26"
Routed to Pond 352.2 : Drywell D (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.069	98	Roofs, HSG B
0.069	98	100.00% Impervious Area

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

Summary for Subcatchment 352.3: Lots 56-60, 66, 68, 70-71, 80, 86, 87, 89, 118-120, 122-125

Runoff = 4.68 cfs @ 12.00 hrs, Volume= 0.317 af, Depth= 8.26"
Routed to Pond 352.4 : Drywell H (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.460	98	Roofs, HSG B
0.460	98	100.00% Impervious Area

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

Summary for Subcatchment 353: Subcat 353

Runoff = 23.67 cfs @ 12.09 hrs, Volume= 1.715 af, Depth= 5.14"
Routed to Reach 354 : Swale G

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
2.762	61	>75% Grass cover, Good, HSG B
1.234	98	Impervious, HSG B
0.000	98	Roofs, HSG B
0.003	55	Woods, Good, HSG B
* 0.009	98	Paved Waterways, HSG B
4.008	72	Weighted Average
2.765	61	68.99% Pervious Area
1.243	98	31.01% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	43	0.1046	0.28		**Sheet Flow, A** Grass: Short n= 0.150 P2= 3.30"
4.0	2,039	0.0374	8.50	101.94	**Trap/Vee/Rect Channel Flow, B** Bot.W=2.00' D=1.50' Z= 4.0 '/' Top.W=14.00' n= 0.030
6.5	2,082	Total			

Summary for Subcatchment 353.1: Lot 134-136

Runoff = 0.70 cfs @ 12.00 hrs, Volume= 0.047 af, Depth= 8.26"
Routed to Pond 353.2 : Drywell B (1.02 in/hr) (1' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.069	98	Roofs, HSG B
0.069	98	100.00% Impervious Area

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

Summary for Subcatchment 355: Subcat 355

Runoff = 20.12 cfs @ 12.30 hrs, Volume= 2.217 af, Depth= 3.36"
Routed to Pond 357 : Forebay G (162.5, 167.5)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.005	39	>75% Grass cover, Good, HSG A
2.091	61	>75% Grass cover, Good, HSG B
0.000	98	Impervious, HSG B
0.041	98	Roofs, HSG B
5.773	55	Woods, Good, HSG B
7.910	57	Weighted Average
7.869	57	99.48% Pervious Area
0.041	98	0.52% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.2	100	0.0389	0.10		**Sheet Flow, A** Woods: Light underbrush n= 0.400 P2= 3.30"
4.6	948	0.0455	3.43		**Shallow Concentrated Flow, B** Unpaved Kv= 16.1 fps
20.8	1,048	Total			

Summary for Subcatchment 356: Subcat 356

Runoff = 0.32 cfs @ 12.00 hrs, Volume= 0.018 af, Depth= 4.30"
Routed to Pond 357 : Forebay G (162.5, 167.5)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.045	61	>75% Grass cover, Good, HSG B
0.006	98	Water Surface, 0% imp, HSG B
0.051	65	Weighted Average
0.051	65	100.00% Pervious Area

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

Summary for Subcatchment 356.1: Lots 130-132

Runoff = 0.70 cfs @ 12.00 hrs, Volume= 0.047 af, Depth= 8.26"
Routed to Pond 356.2 : Drywell A (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.069	98	Roofs, HSG B
0.069	98	100.00% Impervious Area

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

Summary for Subcatchment 356.3: Lot 133

Runoff = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af, Depth= 8.26"
Routed to Pond 356.4 : Drywell C (1.02 in/hr) (0.5' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.023	98	Roofs, HSG B
0.023	98	100.00% Impervious Area

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

Summary for Subcatchment 356.5: Lots 127-129 & 137-140 & Half of 126

Runoff = 1.75 cfs @ 12.00 hrs, Volume= 0.118 af, Depth= 8.26"
Routed to Pond 356.6 : Drywell D (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.172	98	Roofs, HSG B
0.172	98	100.00% Impervious Area

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

Summary for Subcatchment 358: Subcat 358

Runoff = 1.06 cfs @ 12.00 hrs, Volume= 0.062 af, Depth= 5.50"
Routed to Pond 359 : WQ Pond G (162, 165.75) (2.41in/hr)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.083	61	>75% Grass cover, Good, HSG B
0.053	98	Water Surface, 0% imp, HSG B
0.136	75	Weighted Average
0.136	75	100.00% Pervious Area

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

Summary for Subcatchment 360: Subcat 360

Runoff = 6.82 cfs @ 12.25 hrs, Volume= 0.710 af, Depth= 3.13"
Routed to Pond 362 : QP Pond G (161, 165.75) (2.41 in/hr)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.081	61	>75% Grass cover, Good, HSG B
0.000	98	Impervious, HSG B
2.638	55	Woods, Good, HSG B
2.719	55	Weighted Average
2.719	55	100.00% Pervious Area
0.000	98	0.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.5	100	0.0518	0.12		**Sheet Flow, A** Woods: Light underbrush n= 0.400 P2= 3.30"
3.2	749	0.0574	3.86		**Shallow Concentrated Flow, B** Unpaved Kv= 16.1 fps
17.7	849	Total			

Summary for Subcatchment 361: Subcat 361

Runoff = 7.37 cfs @ 12.00 hrs, Volume= 0.442 af, Depth= 6.46"
Routed to Pond 362 : QP Pond G (161, 165.75) (2.41 in/hr)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.333	61	>75% Grass cover, Good, HSG B
0.488	98	Water Surface, 0% imp, HSG B
0.822	83	Weighted Average
0.822	83	100.00% Pervious Area

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

Summary for Subcatchment 365: Subcat 365

Runoff = 38.44 cfs @ 12.28 hrs, Volume= 4.116 af, Depth= 3.36"
Routed to Reach 365B : Upland

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
4.068	61	>75% Grass cover, Good, HSG B
0.000	98	Roofs, HSG B
10.620	55	Woods, Good, HSG B
14.688	57	Weighted Average
14.688	57	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.2	100	0.0290	0.09		**Sheet Flow, A** Woods: Light underbrush n= 0.400 P2= 3.30"
1.3	305	0.0557	3.80		**Shallow Concentrated Flow, B** Unpaved Kv= 16.1 fps
19.5	405	Total			

Summary for Subcatchment 365.1: Lot 67

Runoff = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af, Depth= 8.26"
Routed to Pond 365.2 : Drywell G (1.02 in/hr) (1' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.023	98	Roofs, HSG B
0.023	98	100.00% Impervious Area

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

Summary for Subcatchment 365.3: Lots 61, 69, 77-79, 88, 121

Runoff = 1.64 cfs @ 12.00 hrs, Volume= 0.111 af, Depth= 8.26"
Routed to Pond 365.4 : Drywell F (1.02 in/hr) (2' Deep)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.161	98	Roofs, HSG B
0.161	98	100.00% Impervious Area

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

Summary for Subcatchment 366: Subcat 366

Runoff = 14.49 cfs @ 12.18 hrs, Volume= 1.312 af, Depth= 3.36"
Routed to Reach 366A : Wetland

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
1.382	61	>75% Grass cover, Good, HSG B
0.000	98	Impervious, HSG B
0.000	98	Roofs, HSG B
3.300	55	Woods, Good, HSG B
4.682	57	Weighted Average
4.682	57	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.3	100	0.0782	0.14		**Sheet Flow, A** Woods: Light underbrush n= 0.400 P2= 3.30"
0.4	183	0.2187	7.53		**Shallow Concentrated Flow, B** Unpaved Kv= 16.1 fps
12.7	283	Total			

Summary for Subcatchment 367: Subcat 367

Runoff = 1.92 cfs @ 12.17 hrs, Volume= 0.189 af, Depth= 1.90"
Routed to Reach 367A : Wetland

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.066	39	>75% Grass cover, Good, HSG A
0.053	61	>75% Grass cover, Good, HSG B
0.508	30	Woods, Good, HSG A
0.568	55	Woods, Good, HSG B
1.194	44	Weighted Average
1.194	44	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.1480	0.18		**Sheet Flow, A** Woods: Light underbrush n= 0.400 P2= 3.30"
0.9	157	0.0350	3.01		**Shallow Concentrated Flow, B** Unpaved Kv= 16.1 fps
10.4	257	Total			

Summary for Subcatchment 368: Subcat 368

Runoff = 20.17 cfs @ 12.16 hrs, Volume= 1.725 af, Depth= 3.36"
Routed to Reach 368A : Wetland

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
1.687	61	>75% Grass cover, Good, HSG B
0.000	98	Impervious, HSG B
0.000	98	Roofs, HSG B
4.469	55	Woods, Good, HSG B
6.156	57	Weighted Average
6.156	57	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	90	0.0880	0.14		**Sheet Flow, A** Woods: Light underbrush n= 0.400 P2= 3.30"
0.1	31	0.1286	7.09	467.68	**Trap/Vee/Rect Channel Flow, B** Bot.W=6.00' D=2.00' Z= 11.0 & 16.0 '/' Top.W=60.00' n= 0.080 Earth, long dense weeds
10.8	121	Total			

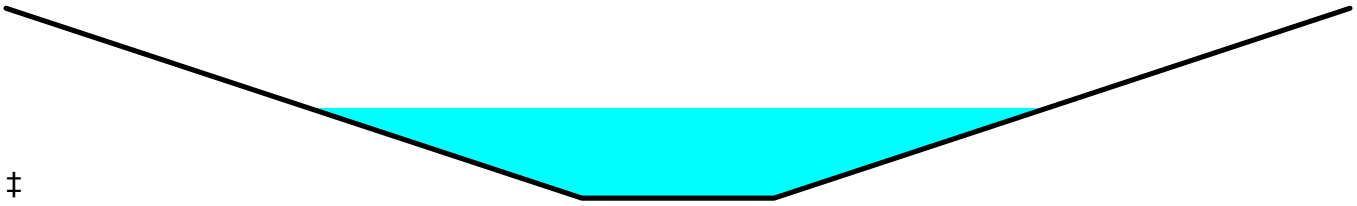
Summary for Reach 303A: Swale D

Inflow Area = 7.045 ac, 5.31% Impervious, Inflow Depth = 3.49" for 100-Year event
Inflow = 15.19 cfs @ 12.38 hrs, Volume= 2.052 af
Outflow = 15.15 cfs @ 12.39 hrs, Volume= 2.052 af, Atten= 0%, Lag= 0.9 min
Routed to Reach 303B : Swale D

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 4.38 fps, Min. Travel Time= 1.2 min
Avg. Velocity = 1.71 fps, Avg. Travel Time= 3.2 min

Peak Storage= 1,130 cf @ 12.39 hrs
Average Depth at Peak Storage= 0.71' , Surface Width= 7.70'
Bank-Full Depth= 1.50' Flow Area= 12.0 sf, Capacity= 80.81 cfs

2.00' x 1.50' deep channel, n= 0.030
Side Slope Z-value= 4.0 '/' Top Width= 14.00'
Length= 327.2' Slope= 0.0235 '/'
Inlet Invert= 377.79', Outlet Invert= 370.10'



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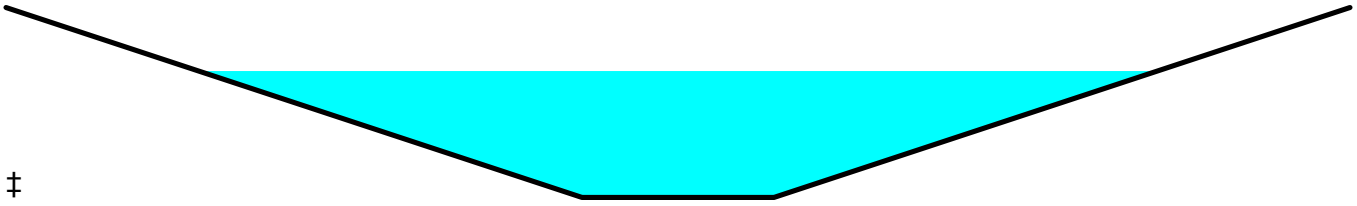
Summary for Reach 303B: Swale D

Inflow Area = 8.916 ac, 6.55% Impervious, Inflow Depth = 3.61" for 100-Year event
Inflow = 18.42 cfs @ 12.36 hrs, Volume= 2.679 af
Outflow = 18.42 cfs @ 12.36 hrs, Volume= 2.679 af, Atten= 0%, Lag= 0.2 min
Routed to Pond 306 : Forebay D North (367.5, 371)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 3.08 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 1.25 fps, Avg. Travel Time= 0.5 min

Peak Storage= 227 cf @ 12.36 hrs
Average Depth at Peak Storage= 1.00' , Surface Width= 9.99'
Bank-Full Depth= 1.50' Flow Area= 12.0 sf, Capacity= 46.84 cfs

2.00' x 1.50' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 4.0 '/' Top Width= 14.00'
Length= 38.0' Slope= 0.0079 '/'
Inlet Invert= 370.10', Outlet Invert= 369.80'



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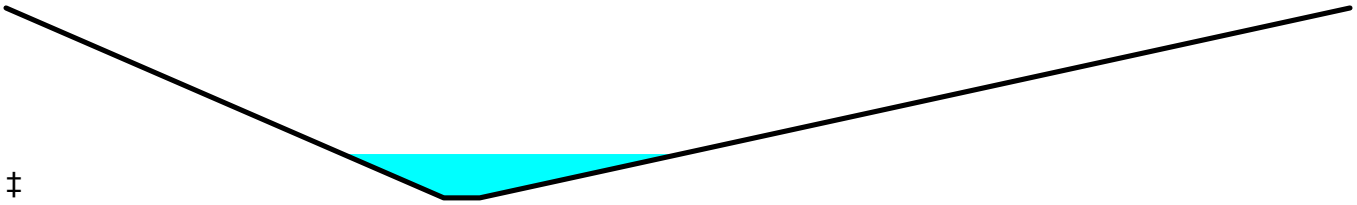
Summary for Reach 317A: Wetland/Stream

Inflow Area = 12.311 ac, 10.24% Impervious, Inflow Depth = 2.99" for 100-Year event
Inflow = 16.74 cfs @ 12.56 hrs, Volume= 3.071 af
Outflow = 15.50 cfs @ 12.84 hrs, Volume= 3.071 af, Atten= 7%, Lag= 16.4 min
Routed to Reach 317B : Wetland/Stream

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.96 fps, Min. Travel Time= 16.5 min
Avg. Velocity = 0.71 fps, Avg. Travel Time= 45.4 min

Peak Storage= 15,344 cf @ 12.84 hrs
Average Depth at Peak Storage= 0.51' , Surface Width= 28.18'
Bank-Full Depth= 2.20' Flow Area= 126.6 sf, Capacity= 627.13 cfs

3.00' x 2.20' deep channel, n= 0.080
Side Slope Z-value= 16.6 33.0 '/' Top Width= 112.12'
Length= 1,938.6' Slope= 0.0605 '/'
Inlet Invert= 360.00', Outlet Invert= 242.70'



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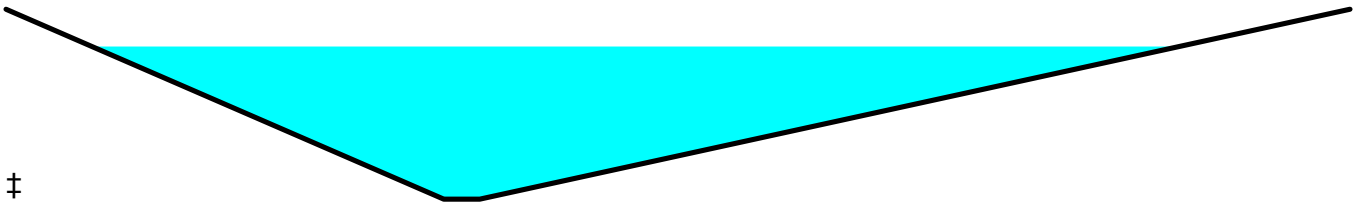
Summary for Reach 317B: Wetland/Stream

Inflow Area = 168.111 ac, 0.84% Impervious, Inflow Depth = 3.34" for 100-Year event
Inflow = 287.40 cfs @ 12.68 hrs, Volume= 46.730 af
Outflow = 287.07 cfs @ 12.69 hrs, Volume= 46.730 af, Atten= 0%, Lag= 0.7 min
Routed to Reach 365F : Stream

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 3.46 fps, Min. Travel Time= 1.5 min
Avg. Velocity = 1.11 fps, Avg. Travel Time= 4.7 min

Peak Storage= 25,957 cf @ 12.69 hrs
Average Depth at Peak Storage= 1.77' , Surface Width= 90.72'
Bank-Full Depth= 2.20' Flow Area= 126.6 sf, Capacity= 505.24 cfs

3.00' x 2.20' deep channel, n= 0.080
Side Slope Z-value= 16.6 33.0 '/' Top Width= 112.12'
Length= 313.2' Slope= 0.0393 '/'
Inlet Invert= 242.70', Outlet Invert= 230.40'



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Summary for Reach 320: Road Swale

Inflow Area = 0.486 ac, 32.51% Impervious, Inflow Depth = 5.26" for 100-Year event
Inflow = 2.99 cfs @ 12.09 hrs, Volume= 0.213 af
Outflow = 2.77 cfs @ 12.12 hrs, Volume= 0.213 af, Atten= 7%, Lag= 1.9 min
Routed to Reach 320.1 : Road Swale

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 3.79 fps, Min. Travel Time= 3.0 min
Avg. Velocity = 1.18 fps, Avg. Travel Time= 9.6 min

Peak Storage= 495 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.25' , Surface Width= 3.96'
Bank-Full Depth= 1.50' Flow Area= 12.0 sf, Capacity= 125.47 cfs

2.00' x 1.50' deep channel, n= 0.030
Side Slope Z-value= 4.0 '/' Top Width= 14.00'
Length= 676.0' Slope= 0.0567 '/'
Inlet Invert= 378.30', Outlet Invert= 340.00'

‡

Summary for Reach 320.1: Road Swale

Inflow Area = 2.810 ac, 32.42% Impervious, Inflow Depth = 5.26" for 100-Year event
Inflow = 16.71 cfs @ 12.10 hrs, Volume= 1.231 af
Outflow = 16.22 cfs @ 12.12 hrs, Volume= 1.231 af, Atten= 3%, Lag= 1.3 min
Routed to Pond 322 : 24" Pipe

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 6.55 fps, Min. Travel Time= 1.7 min
Avg. Velocity = 2.13 fps, Avg. Travel Time= 5.4 min

Peak Storage= 1,697 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.58' , Surface Width= 6.61'
Bank-Full Depth= 1.50' Flow Area= 12.0 sf, Capacity= 135.84 cfs

2.00' x 1.50' deep channel, n= 0.030
Side Slope Z-value= 4.0 '/' Top Width= 14.00'
Length= 685.1' Slope= 0.0664 '/'
Inlet Invert= 340.00', Outlet Invert= 294.50'

‡

Summary for Reach 323: Swale E

Inflow Area = 2.821 ac, 32.68% Impervious, Inflow Depth = 5.26" for 100-Year event
Inflow = 16.26 cfs @ 12.12 hrs, Volume= 1.237 af
Outflow = 16.22 cfs @ 12.13 hrs, Volume= 1.237 af, Atten= 0%, Lag= 0.4 min
Routed to Pond 326 : Forebay E (277.5, 282)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 6.10 fps, Min. Travel Time= 0.5 min
Avg. Velocity = 1.99 fps, Avg. Travel Time= 1.6 min

Peak Storage= 497 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.60' , Surface Width= 6.82'
Bank-Full Depth= 1.50' Flow Area= 12.0 sf, Capacity= 123.41 cfs

2.00' x 1.50' deep channel, n= 0.030
Side Slope Z-value= 4.0 '/' Top Width= 14.00'
Length= 187.0' Slope= 0.0548 '/'
Inlet Invert= 291.10', Outlet Invert= 280.85'

‡

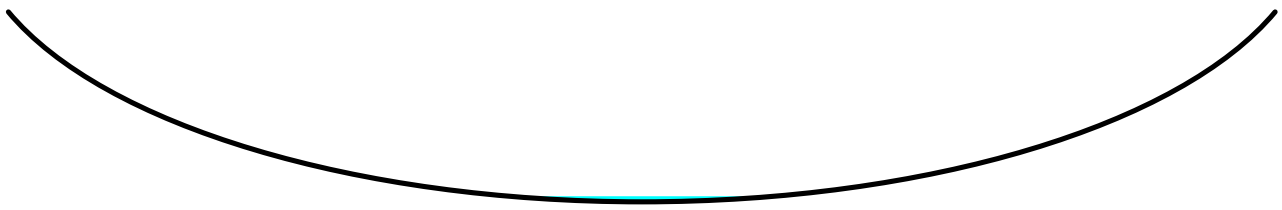
Summary for Reach 332A: Wetland

Inflow Area = 6.691 ac, 23.84% Impervious, Inflow Depth = 3.35" for 100-Year event
Inflow = 8.11 cfs @ 12.53 hrs, Volume= 1.867 af
Outflow = 7.71 cfs @ 12.61 hrs, Volume= 1.867 af, Atten= 5%, Lag= 4.9 min
Routed to Reach 365E : Wetland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.00 fps, Min. Travel Time= 8.1 min
Avg. Velocity = 0.59 fps, Avg. Travel Time= 13.7 min

Peak Storage= 3,759 cf @ 12.61 hrs
Average Depth at Peak Storage= 0.17' , Surface Width= 68.93'
Bank-Full Depth= 5.80' Flow Area= 1,567.9 sf, Capacity= 16,432.28 cfs

405.50' x 5.80' deep Parabolic Channel, n= 0.080
Length= 485.8' Slope= 0.0525 '/'
Inlet Invert= 268.00', Outlet Invert= 242.50'



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Summary for Reach 335: Road Swale

Inflow Area = 15.051 ac, 7.96% Impervious, Inflow Depth = 3.81" for 100-Year event
Inflow = 58.84 cfs @ 12.12 hrs, Volume= 4.785 af
Outflow = 58.83 cfs @ 12.12 hrs, Volume= 4.785 af, Atten= 0%, Lag= 0.2 min
Routed to Pond 336 : 3 x 30" Pipe

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 7.42 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 2.75 fps, Avg. Travel Time= 0.5 min

Peak Storage= 713 cf @ 12.12 hrs
Average Depth at Peak Storage= 1.18' , Surface Width= 11.44'
Bank-Full Depth= 1.50' Flow Area= 12.0 sf, Capacity= 102.51 cfs

2.00' x 1.50' deep channel, n= 0.030
Side Slope Z-value= 4.0 '/' Top Width= 14.00'
Length= 89.9' Slope= 0.0378 '/'
Inlet Invert= 313.40', Outlet Invert= 310.00'

‡

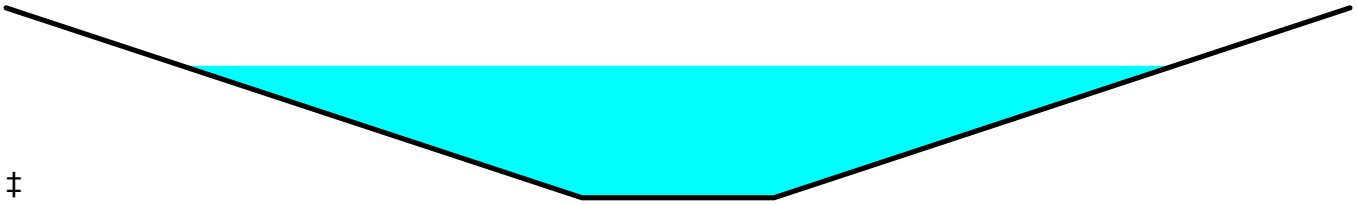
Summary for Reach 338A: Swale F

Inflow Area = 15.665 ac, 9.08% Impervious, Inflow Depth = 3.88" for 100-Year event
Inflow = 62.48 cfs @ 12.12 hrs, Volume= 5.066 af
Outflow = 62.46 cfs @ 12.12 hrs, Volume= 5.066 af, Atten= 0%, Lag= 0.1 min
Routed to Reach 338B : Swale F

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 9.71 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 3.49 fps, Avg. Travel Time= 0.6 min

Peak Storage= 762 cf @ 12.12 hrs
Average Depth at Peak Storage= 1.04' , Surface Width= 10.34'
Bank-Full Depth= 1.50' Flow Area= 12.0 sf, Capacity= 144.11 cfs

2.00' x 1.50' deep channel, n= 0.030
Side Slope Z-value= 4.0 '/' Top Width= 14.00'
Length= 118.4' Slope= 0.0747 '/'
Inlet Invert= 305.85', Outlet Invert= 297.00'



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Summary for Reach 338B: Swale F

Inflow Area = 16.378 ac, 8.75% Impervious, Inflow Depth = 3.87" for 100-Year event
Inflow = 64.73 cfs @ 12.12 hrs, Volume= 5.282 af
Outflow = 64.72 cfs @ 12.12 hrs, Volume= 5.282 af, Atten= 0%, Lag= 0.1 min
Routed to Pond 341 : Forebay F East (284.0, 289)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 10.16 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 3.65 fps, Avg. Travel Time= 0.5 min

Peak Storage= 688 cf @ 12.12 hrs
Average Depth at Peak Storage= 1.04' , Surface Width= 10.29'
Bank-Full Depth= 1.50' Flow Area= 12.0 sf, Capacity= 151.32 cfs

2.00' x 1.50' deep channel, n= 0.030
Side Slope Z-value= 4.0 '/' Top Width= 14.00'
Length= 108.0' Slope= 0.0824 '/'
Inlet Invert= 297.00', Outlet Invert= 288.10'

‡

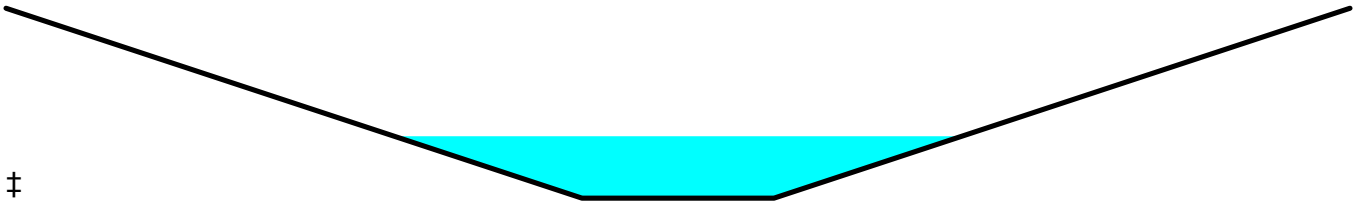
Summary for Reach 344: Swale

Inflow Area = 2.067 ac, 34.01% Impervious, Inflow Depth = 5.23" for 100-Year event
Inflow = 12.27 cfs @ 12.10 hrs, Volume= 0.901 af
Outflow = 12.22 cfs @ 12.11 hrs, Volume= 0.901 af, Atten= 0%, Lag= 0.5 min
Routed to Reach 344A : Swale

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 6.31 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 2.10 fps, Avg. Travel Time= 1.9 min

Peak Storage= 464 cf @ 12.11 hrs
Average Depth at Peak Storage= 0.49' , Surface Width= 5.91'
Bank-Full Depth= 1.50' Flow Area= 12.0 sf, Capacity= 143.30 cfs

2.00' x 1.50' deep channel, n= 0.030
Side Slope Z-value= 4.0 '/' Top Width= 14.00'
Length= 239.5' Slope= 0.0739 '/'
Inlet Invert= 307.70', Outlet Invert= 290.00'



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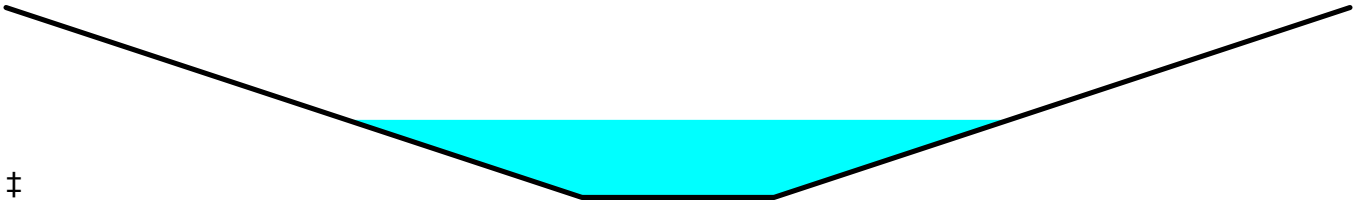
Summary for Reach 344A: Swale

Inflow Area = 2.639 ac, 34.41% Impervious, Inflow Depth = 5.26" for 100-Year event
Inflow = 15.74 cfs @ 12.10 hrs, Volume= 1.157 af
Outflow = 15.72 cfs @ 12.11 hrs, Volume= 1.157 af, Atten= 0%, Lag= 0.2 min
Routed to Pond 347 : Forebay F West (278, 287)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 5.75 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 1.95 fps, Avg. Travel Time= 1.0 min

Peak Storage= 314 cf @ 12.11 hrs
Average Depth at Peak Storage= 0.61' , Surface Width= 6.91'
Bank-Full Depth= 1.50' Flow Area= 12.0 sf, Capacity= 115.33 cfs

2.00' x 1.50' deep channel, n= 0.030
Side Slope Z-value= 4.0 '/' Top Width= 14.00'
Length= 114.9' Slope= 0.0479 '/'
Inlet Invert= 290.00', Outlet Invert= 284.50'



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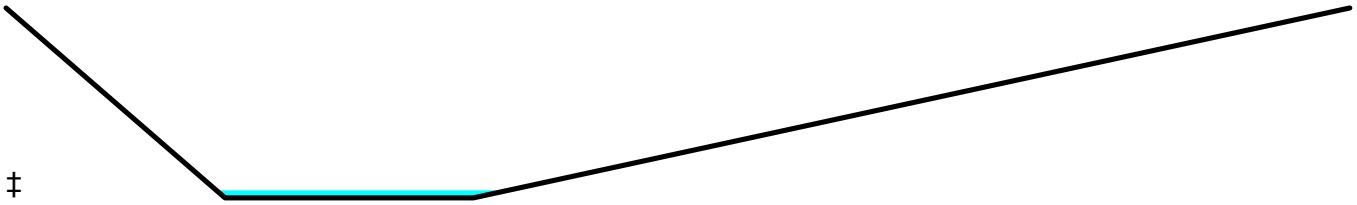
Summary for Reach 352A: Upland

Inflow Area = 0.069 ac,100.00% Impervious, Inflow Depth = 6.51" for 100-Year event
Inflow = 0.69 cfs @ 12.00 hrs, Volume= 0.037 af
Outflow = 0.56 cfs @ 12.04 hrs, Volume= 0.037 af, Atten= 19%, Lag= 2.1 min
Routed to Reach 366B : Wetland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.27 fps, Min. Travel Time= 4.7 min
Avg. Velocity = 0.55 fps, Avg. Travel Time= 10.8 min

Peak Storage= 157 cf @ 12.04 hrs
Average Depth at Peak Storage= 0.02' , Surface Width= 19.98'
Bank-Full Depth= 0.60' Flow Area= 32.7 sf, Capacity= 264.31 cfs

17.00' x 0.60' deep channel, n= 0.030
Side Slope Z-value= 25.0 100.0 '/' Top Width= 92.00'
Length= 356.4' Slope= 0.1058 '/'
Inlet Invert= 313.00', Outlet Invert= 275.30'



‡

Summary for Reach 352B: Upland

Inflow Area = 0.460 ac,100.00% Impervious, Inflow Depth = 5.00" for 100-Year event
Inflow = 4.58 cfs @ 12.00 hrs, Volume= 0.192 af
Outflow = 4.39 cfs @ 12.02 hrs, Volume= 0.192 af, Atten= 4%, Lag= 0.7 min
Routed to Reach 366A : Wetland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.37 fps, Min. Travel Time= 1.3 min
Avg. Velocity = 0.67 fps, Avg. Travel Time= 4.6 min

Peak Storage= 346 cf @ 12.02 hrs
Average Depth at Peak Storage= 0.04' , Surface Width= 55.27'
Bank-Full Depth= 0.30' Flow Area= 21.8 sf, Capacity= 185.54 cfs

50.00' x 0.30' deep channel, n= 0.030
Side Slope Z-value= 100.0 50.0 '/' Top Width= 95.00'
Length= 187.0' Slope= 0.2118 '/'
Inlet Invert= 335.00', Outlet Invert= 295.40'

‡

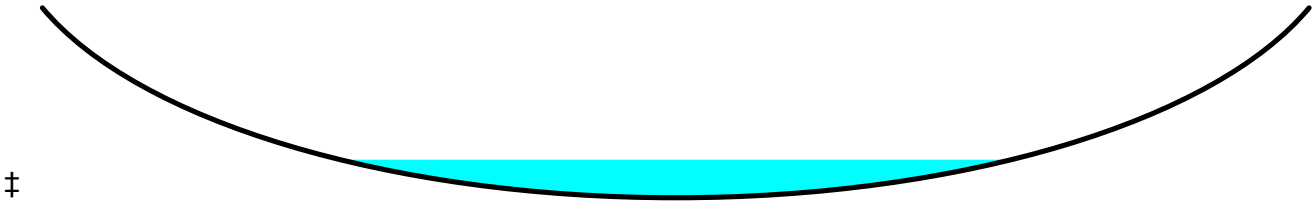
Summary for Reach 352C: Wetland

Inflow Area = 20.892 ac, 11.54% Impervious, Inflow Depth = 3.54" for 100-Year event
Inflow = 37.00 cfs @ 12.40 hrs, Volume= 6.156 af
Outflow = 36.93 cfs @ 12.42 hrs, Volume= 6.156 af, Atten= 0%, Lag= 1.2 min
Routed to Reach 368B : Stream

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.95 fps, Min. Travel Time= 1.8 min
Avg. Velocity = 0.43 fps, Avg. Travel Time= 8.4 min

Peak Storage= 4,072 cf @ 12.42 hrs
Average Depth at Peak Storage= 0.34' , Surface Width= 84.02'
Bank-Full Depth= 1.70' Flow Area= 213.3 sf, Capacity= 1,215.81 cfs

188.20' x 1.70' deep Parabolic Channel, n= 0.080
Length= 214.5' Slope= 0.0797 '/'
Inlet Invert= 281.90', Outlet Invert= 264.80'



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Summary for Reach 354: Swale G

Inflow Area = 4.077 ac, 32.18% Impervious, Inflow Depth = 5.15" for 100-Year event
Inflow = 23.99 cfs @ 12.09 hrs, Volume= 1.749 af
Outflow = 23.53 cfs @ 12.11 hrs, Volume= 1.749 af, Atten= 2%, Lag= 1.0 min
Routed to Pond 357 : Forebay G (162.5, 167.5)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 3.74 fps, Min. Travel Time= 1.4 min
Avg. Velocity = 1.22 fps, Avg. Travel Time= 4.2 min

Peak Storage= 1,948 cf @ 12.11 hrs
Average Depth at Peak Storage= 0.93' , Surface Width= 10.47'
Bank-Full Depth= 1.50' Flow Area= 13.5 sf, Capacity= 66.09 cfs

3.00' x 1.50' deep channel, n= 0.030
Side Slope Z-value= 4.0 '/' Top Width= 15.00'
Length= 310.0' Slope= 0.0116 '/'
Inlet Invert= 169.10', Outlet Invert= 165.50'

‡

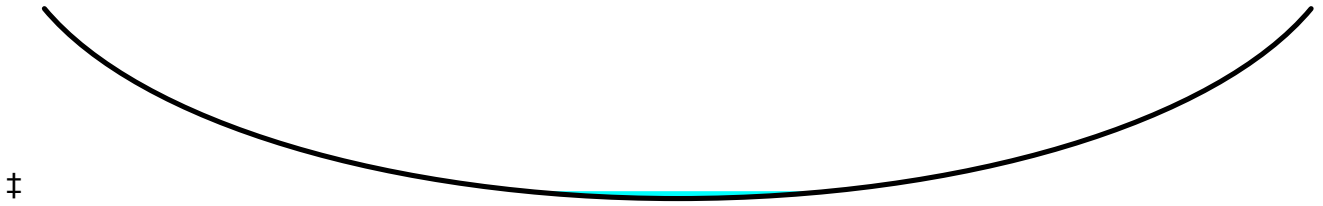
Summary for Reach 362A: Wetland

Inflow Area = 15.979 ac, 10.12% Impervious, Inflow Depth = 1.73" for 100-Year event
Inflow = 4.65 cfs @ 13.45 hrs, Volume= 2.299 af
Outflow = 4.64 cfs @ 13.52 hrs, Volume= 2.299 af, Atten= 0%, Lag= 4.2 min
Routed to Reach 368E : Stream

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.51 fps, Min. Travel Time= 5.3 min
Avg. Velocity = 0.36 fps, Avg. Travel Time= 7.6 min

Peak Storage= 1,474 cf @ 13.52 hrs
Average Depth at Peak Storage= 0.19' , Surface Width= 70.07'
Bank-Full Depth= 5.20' Flow Area= 1,265.3 sf, Capacity= 5,799.68 cfs

365.00' x 5.20' deep Parabolic Channel, n= 0.080
Length= 163.6' Slope= 0.0116 '/'
Inlet Invert= 161.80', Outlet Invert= 159.90'



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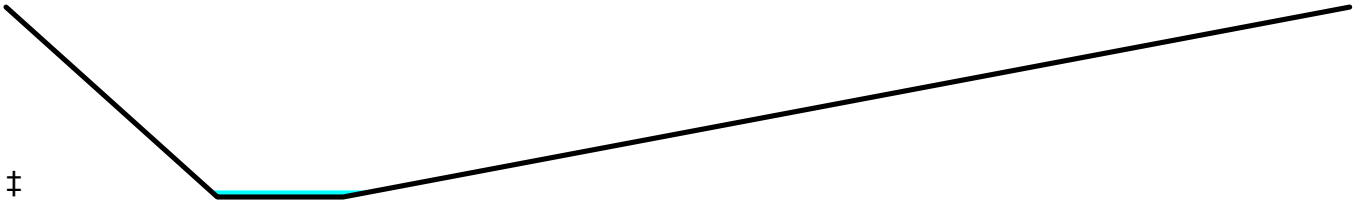
Summary for Reach 365A: Upland

Inflow Area = 0.023 ac,100.00% Impervious, Inflow Depth = 4.25" for 100-Year event
Inflow = 0.22 cfs @ 12.01 hrs, Volume= 0.008 af
Outflow = 0.21 cfs @ 12.03 hrs, Volume= 0.008 af, Atten= 5%, Lag= 1.0 min
Routed to Reach 365B : Upland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.44 fps, Min. Travel Time= 1.6 min
Avg. Velocity = 0.72 fps, Avg. Travel Time= 3.3 min

Peak Storage= 21 cf @ 12.03 hrs
Average Depth at Peak Storage= 0.04' , Surface Width= 4.00'
Bank-Full Depth= 1.20' Flow Area= 21.0 sf, Capacity= 206.29 cfs

3.00' x 1.20' deep channel, n= 0.030
Side Slope Z-value= 4.2 20.0 '/' Top Width= 32.04'
Length= 141.4' Slope= 0.0693 '/'
Inlet Invert= 370.10', Outlet Invert= 360.30'



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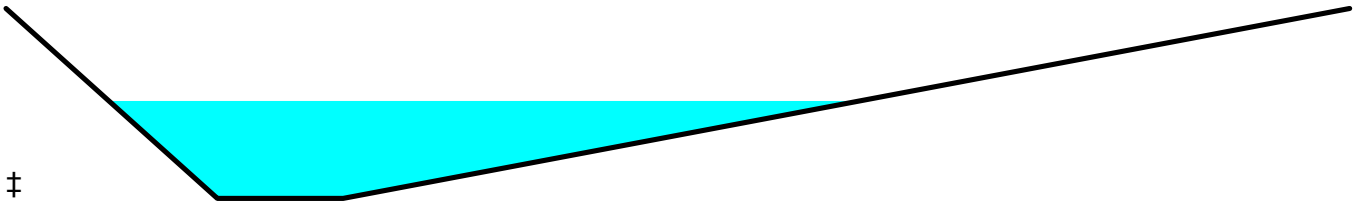
Summary for Reach 365B: Upland

Inflow Area = 14.711 ac, 0.16% Impervious, Inflow Depth = 3.36" for 100-Year event
Inflow = 38.50 cfs @ 12.28 hrs, Volume= 4.124 af
Outflow = 37.55 cfs @ 12.33 hrs, Volume= 4.124 af, Atten= 2%, Lag= 2.6 min
Routed to Reach 365C : Wetland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 5.84 fps, Min. Travel Time= 3.2 min
Avg. Velocity = 2.25 fps, Avg. Travel Time= 8.4 min

Peak Storage= 7,239 cf @ 12.33 hrs
Average Depth at Peak Storage= 0.62' , Surface Width= 17.90'
Bank-Full Depth= 1.20' Flow Area= 21.0 sf, Capacity= 183.32 cfs

3.00' x 1.20' deep channel, n= 0.030
Side Slope Z-value= 4.2 20.0 '/' Top Width= 32.04'
Length= 1,125.5' Slope= 0.0547 '/'
Inlet Invert= 360.30', Outlet Invert= 298.70'



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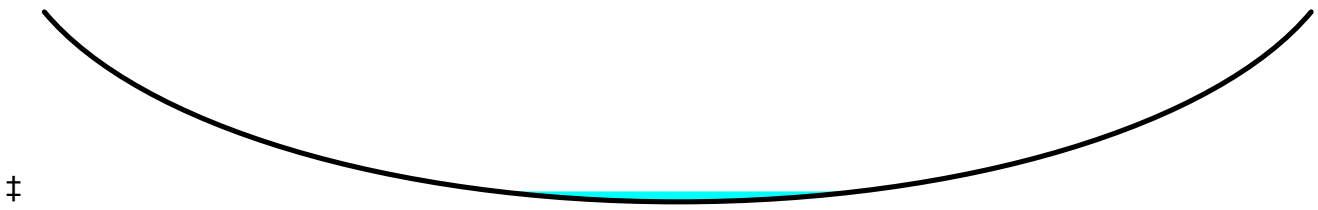
Summary for Reach 365C: Wetland

Inflow Area = 14.872 ac, 1.24% Impervious, Inflow Depth = 3.38" for 100-Year event
Inflow = 37.91 cfs @ 12.32 hrs, Volume= 4.190 af
Outflow = 35.15 cfs @ 12.41 hrs, Volume= 4.190 af, Atten= 7%, Lag= 5.2 min
Routed to Reach 365D : Wetland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.81 fps, Min. Travel Time= 6.8 min
Avg. Velocity = 0.75 fps, Avg. Travel Time= 16.3 min

Peak Storage= 14,275 cf @ 12.41 hrs
Average Depth at Peak Storage= 0.31' , Surface Width= 93.75'
Bank-Full Depth= 5.80' Flow Area= 1,567.9 sf, Capacity= 19,838.06 cfs

405.50' x 5.80' deep Parabolic Channel, n= 0.080
Length= 734.6' Slope= 0.0765 '/'
Inlet Invert= 298.70', Outlet Invert= 242.50'



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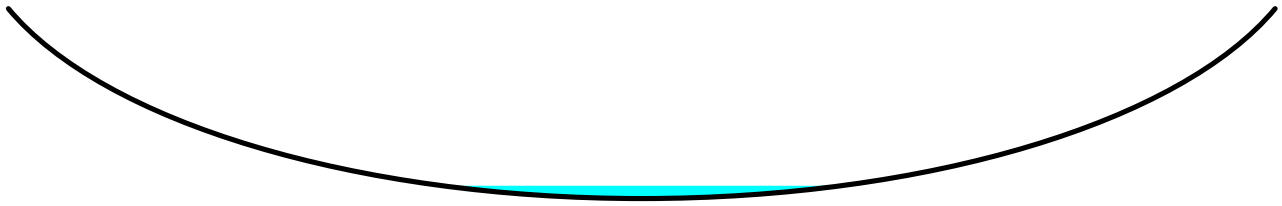
Summary for Reach 365D: Wetland

Inflow Area = 14.872 ac, 1.24% Impervious, Inflow Depth = 3.38" for 100-Year event
Inflow = 35.15 cfs @ 12.41 hrs, Volume= 4.190 af
Outflow = 34.98 cfs @ 12.43 hrs, Volume= 4.190 af, Atten= 0%, Lag= 1.4 min
Routed to Reach 365E : Wetland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.29 fps, Min. Travel Time= 1.8 min
Avg. Velocity = 0.52 fps, Avg. Travel Time= 4.5 min

Peak Storage= 3,786 cf @ 12.43 hrs
Average Depth at Peak Storage= 0.39' , Surface Width= 104.71'
Bank-Full Depth= 5.80' Flow Area= 1,567.9 sf, Capacity= 12,273.95 cfs

405.50' x 5.80' deep Parabolic Channel, n= 0.080
Length= 140.0' Slope= 0.0293 '/'
Inlet Invert= 246.60', Outlet Invert= 242.50'



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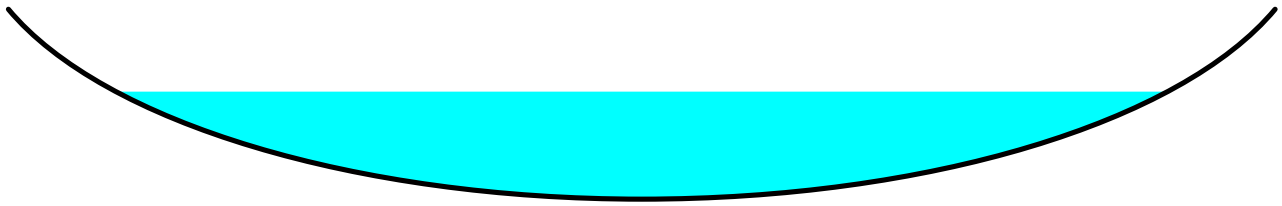
Summary for Reach 365E: Wetland

Inflow Area = 21.563 ac, 8.25% Impervious, Inflow Depth = 3.37" for 100-Year event
Inflow = 41.75 cfs @ 12.44 hrs, Volume= 6.057 af
Outflow = 41.15 cfs @ 12.49 hrs, Volume= 6.057 af, Atten= 1%, Lag= 3.0 min
Routed to Reach 365F : Stream

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.83 fps, Min. Travel Time= 3.5 min
Avg. Velocity = 0.58 fps, Avg. Travel Time= 11.1 min

Peak Storage= 8,657 cf @ 12.49 hrs
Average Depth at Peak Storage= 0.62' , Surface Width= 54.21'
Bank-Full Depth= 1.10' Flow Area= 52.9 sf, Capacity= 141.51 cfs

72.10' x 1.10' deep Parabolic Channel, n= 0.080
Length= 385.1' Slope= 0.0314 '/'
Inlet Invert= 242.50', Outlet Invert= 230.40'



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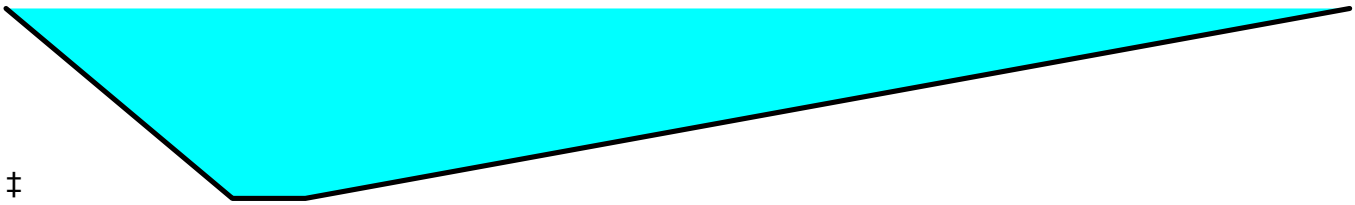
Summary for Reach 365F: Stream

Inflow Area = 189.674 ac, 1.68% Impervious, Inflow Depth = 3.34" for 100-Year event
Inflow = 322.57 cfs @ 12.66 hrs, Volume= 52.787 af
Outflow = 320.20 cfs @ 12.71 hrs, Volume= 52.787 af, Atten= 1%, Lag= 3.1 min
Routed to Reach 368D : Stream

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 3.62 fps, Min. Travel Time= 3.0 min
Avg. Velocity = 1.16 fps, Avg. Travel Time= 9.5 min

Peak Storage= 58,164 cf @ 12.71 hrs
Average Depth at Peak Storage= 2.32' , Surface Width= 83.63'
Bank-Full Depth= 1.50' Flow Area= 43.7 sf, Capacity= 135.25 cfs

3.00' x 1.50' deep channel, n= 0.100 Earth, dense brush, high stage
Side Slope Z-value= 6.2 28.6 '/' Top Width= 55.20'
Length= 657.0' Slope= 0.0597 '/'
Inlet Invert= 230.40', Outlet Invert= 191.20'



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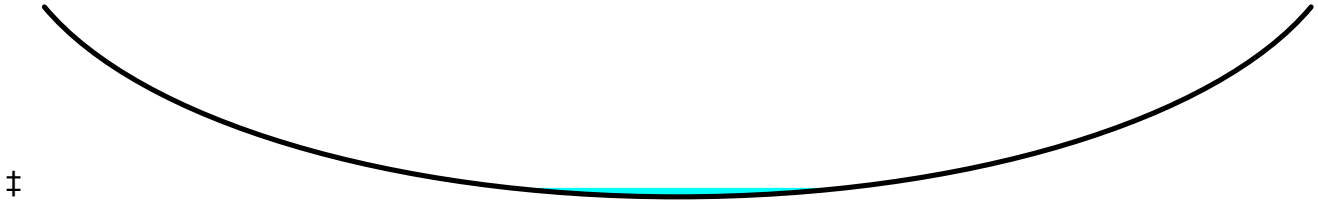
Summary for Reach 366A: Wetland

Inflow Area = 5.142 ac, 8.95% Impervious, Inflow Depth = 3.51" for 100-Year event
Inflow = 16.11 cfs @ 12.18 hrs, Volume= 1.504 af
Outflow = 15.95 cfs @ 12.20 hrs, Volume= 1.504 af, Atten= 1%, Lag= 1.0 min
Routed to Reach 366B : Wetland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.09 fps, Min. Travel Time= 1.5 min
Avg. Velocity = 0.89 fps, Avg. Travel Time= 3.5 min

Peak Storage= 1,432 cf @ 12.20 hrs
Average Depth at Peak Storage= 0.30' , Surface Width= 38.12'
Bank-Full Depth= 6.40' Flow Area= 752.6 sf, Capacity= 12,003.67 cfs

176.40' x 6.40' deep Parabolic Channel, n= 0.080
Length= 187.8' Slope= 0.1070 '/'
Inlet Invert= 295.40', Outlet Invert= 275.30'



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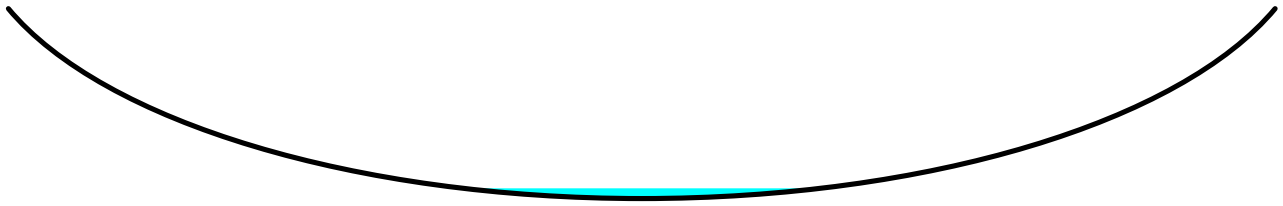
Summary for Reach 366B: Wetland

Inflow Area = 5.211 ac, 10.15% Impervious, Inflow Depth = 3.55" for 100-Year event
Inflow = 16.24 cfs @ 12.19 hrs, Volume= 1.541 af
Outflow = 16.13 cfs @ 12.21 hrs, Volume= 1.541 af, Atten= 1%, Lag= 1.0 min
Routed to Reach 368B : Stream

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.79 fps, Min. Travel Time= 1.5 min
Avg. Velocity = 0.72 fps, Avg. Travel Time= 3.6 min

Peak Storage= 1,404 cf @ 12.21 hrs
Average Depth at Peak Storage= 0.33' , Surface Width= 40.35'
Bank-Full Depth= 6.40' Flow Area= 752.6 sf, Capacity= 9,534.40 cfs

176.40' x 6.40' deep Parabolic Channel, n= 0.080
Length= 155.5' Slope= 0.0675 '/'
Inlet Invert= 275.30', Outlet Invert= 264.80'



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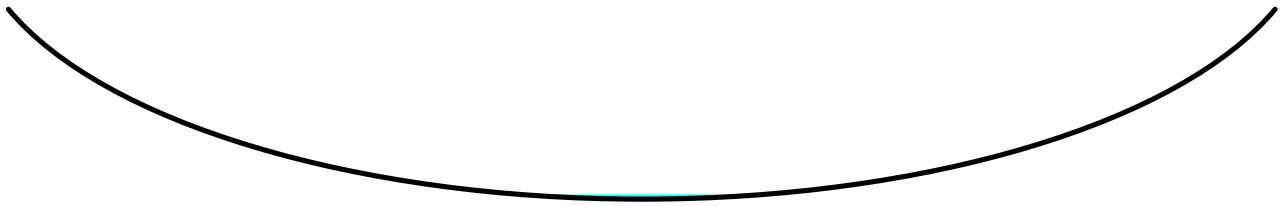
Summary for Reach 367A: Wetland

Inflow Area = 1.194 ac, 0.00% Impervious, Inflow Depth = 1.90" for 100-Year event
Inflow = 1.92 cfs @ 12.17 hrs, Volume= 0.189 af
Outflow = 1.47 cfs @ 12.30 hrs, Volume= 0.189 af, Atten= 23%, Lag= 7.9 min
Routed to Reach 368F : Stream

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.33 fps, Min. Travel Time= 9.4 min
Avg. Velocity = 0.19 fps, Avg. Travel Time= 16.2 min

Peak Storage= 830 cf @ 12.30 hrs
Average Depth at Peak Storage= 0.12' , Surface Width= 55.29'
Bank-Full Depth= 5.20' Flow Area= 1,265.3 sf, Capacity= 4,992.74 cfs

365.00' x 5.20' deep Parabolic Channel, n= 0.080
Length= 185.9' Slope= 0.0086 '/'
Inlet Invert= 159.80', Outlet Invert= 158.20'



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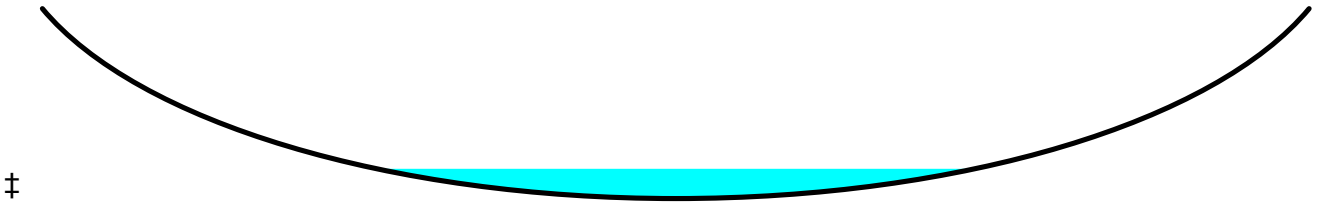
Summary for Reach 368A: Wetland

Inflow Area = 6.156 ac, 0.00% Impervious, Inflow Depth = 3.36" for 100-Year event
Inflow = 20.17 cfs @ 12.16 hrs, Volume= 1.725 af
Outflow = 19.83 cfs @ 12.18 hrs, Volume= 1.725 af, Atten= 2%, Lag= 1.2 min
Routed to Reach 368B : Stream

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.52 fps, Min. Travel Time= 1.7 min
Avg. Velocity = 0.56 fps, Avg. Travel Time= 4.7 min

Peak Storage= 2,034 cf @ 12.18 hrs
Average Depth at Peak Storage= 0.26' , Surface Width= 74.19'
Bank-Full Depth= 1.70' Flow Area= 213.3 sf, Capacity= 1,118.59 cfs

188.20' x 1.70' deep Parabolic Channel, n= 0.080
Length= 155.6' Slope= 0.0675 '/'
Inlet Invert= 275.30', Outlet Invert= 264.80'



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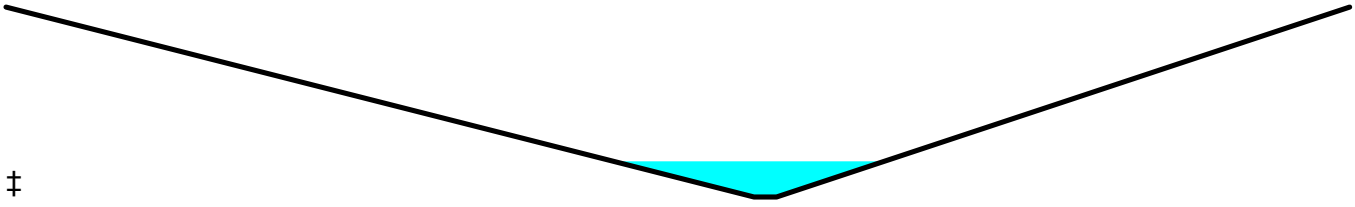
Summary for Reach 368B: Stream

Inflow Area = 32.259 ac, 9.11% Impervious, Inflow Depth = 3.50" for 100-Year event
Inflow = 66.20 cfs @ 12.24 hrs, Volume= 9.422 af
Outflow = 57.00 cfs @ 12.44 hrs, Volume= 9.422 af, Atten= 14%, Lag= 12.4 min
Routed to Reach 368C : Stream

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.72 fps, Min. Travel Time= 11.0 min
Avg. Velocity = 1.02 fps, Avg. Travel Time= 29.4 min

Peak Storage= 37,481 cf @ 12.44 hrs
Average Depth at Peak Storage= 1.61' , Surface Width= 23.95'
Bank-Full Depth= 8.60' Flow Area= 520.1 sf, Capacity= 4,131.61 cfs

2.00' x 8.60' deep channel, n= 0.100
Side Slope Z-value= 7.7 5.9 '/' Top Width= 118.96'
Length= 1,788.3' Slope= 0.0405 '/'
Inlet Invert= 264.80', Outlet Invert= 192.30'



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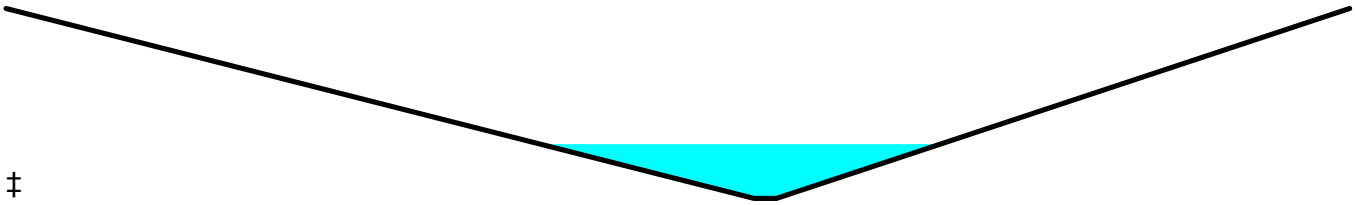
Summary for Reach 368C: Stream

Inflow Area = 32.259 ac, 9.11% Impervious, Inflow Depth = 3.50" for 100-Year event
Inflow = 57.00 cfs @ 12.44 hrs, Volume= 9.422 af
Outflow = 56.65 cfs @ 12.49 hrs, Volume= 9.422 af, Atten= 1%, Lag= 2.6 min
Routed to Reach 368D : Stream

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.23 fps, Min. Travel Time= 3.0 min
Avg. Velocity = 0.25 fps, Avg. Travel Time= 14.7 min

Peak Storage= 10,325 cf @ 12.49 hrs
Average Depth at Peak Storage= 2.46' , Surface Width= 35.44'
Bank-Full Depth= 8.60' Flow Area= 520.1 sf, Capacity= 1,436.98 cfs

2.00' x 8.60' deep channel, n= 0.100
Side Slope Z-value= 7.7 5.9 '/' Top Width= 118.96'
Length= 224.3' Slope= 0.0049 '/'
Inlet Invert= 192.30', Outlet Invert= 191.20'



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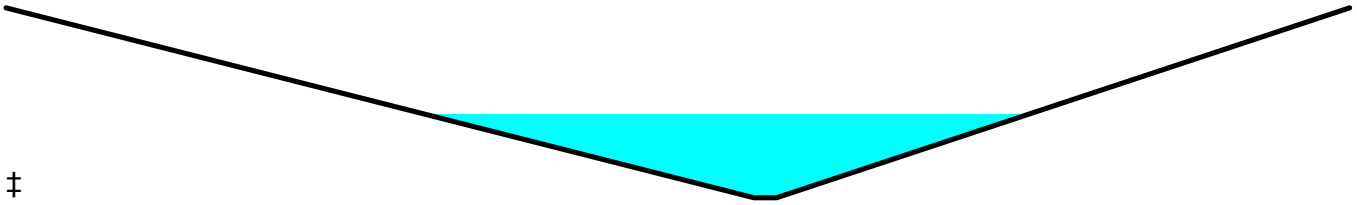
Summary for Reach 368D: Stream

Inflow Area = 221.933 ac, 2.76% Impervious, Inflow Depth = 3.36" for 100-Year event
Inflow = 370.38 cfs @ 12.69 hrs, Volume= 62.209 af
Outflow = 360.09 cfs @ 12.79 hrs, Volume= 62.209 af, Atten= 3%, Lag= 5.9 min
Routed to Reach 368E : Stream

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 3.41 fps, Min. Travel Time= 7.1 min
Avg. Velocity = 1.03 fps, Avg. Travel Time= 23.5 min

Peak Storage= 153,479 cf @ 12.79 hrs
Average Depth at Peak Storage= 3.80' , Surface Width= 53.66'
Bank-Full Depth= 8.60' Flow Area= 520.1 sf, Capacity= 3,013.14 cfs

2.00' x 8.60' deep channel, n= 0.100
Side Slope Z-value= 7.7 5.9 '/' Top Width= 118.96'
Length= 1,451.6' Slope= 0.0216 '/'
Inlet Invert= 191.20', Outlet Invert= 159.90'



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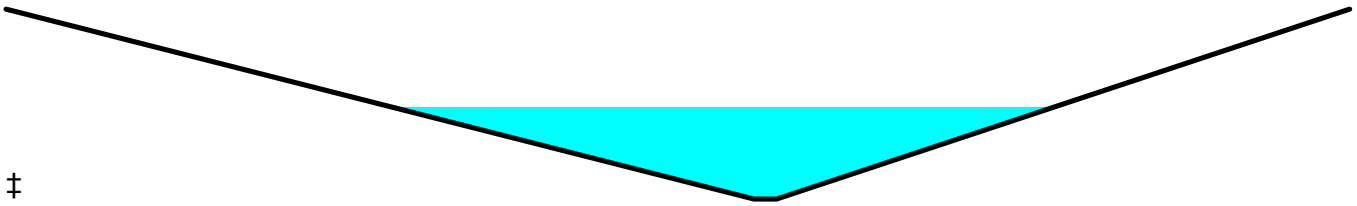
Summary for Reach 368E: Stream

Inflow Area = 237.912 ac, 3.26% Impervious, Inflow Depth = 3.25" for 100-Year event
Inflow = 364.14 cfs @ 12.79 hrs, Volume= 64.508 af
Outflow = 364.05 cfs @ 12.80 hrs, Volume= 64.508 af, Atten= 0%, Lag= 0.5 min
Routed to Reach 368F : Stream

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.87 fps, Min. Travel Time= 0.7 min
Avg. Velocity = 0.82 fps, Avg. Travel Time= 2.5 min

Peak Storage= 15,821 cf @ 12.80 hrs
Average Depth at Peak Storage= 4.17' , Surface Width= 58.73'
Bank-Full Depth= 8.60' Flow Area= 520.1 sf, Capacity= 2,393.94 cfs

2.00' x 8.60' deep channel, n= 0.100
Side Slope Z-value= 7.7 5.9 '/' Top Width= 118.96'
Length= 124.9' Slope= 0.0136 '/'
Inlet Invert= 159.90', Outlet Invert= 158.20'



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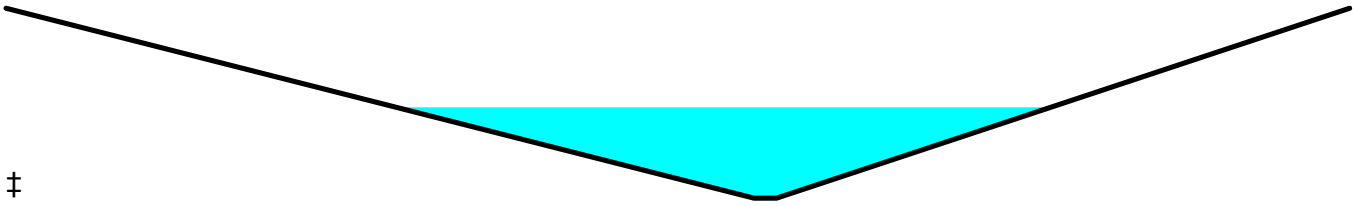
Summary for Reach 368F: Stream

Inflow Area = 239.106 ac, 3.24% Impervious, Inflow Depth = 3.25" for 100-Year event
Inflow = 364.66 cfs @ 12.80 hrs, Volume= 64.697 af
Outflow = 364.52 cfs @ 12.81 hrs, Volume= 64.697 af, Atten= 0%, Lag= 0.7 min
Routed to Link 369 : DP-3 Central Wetland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.95 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 0.86 fps, Avg. Travel Time= 3.1 min

Peak Storage= 19,399 cf @ 12.81 hrs
Average Depth at Peak Storage= 4.12' , Surface Width= 57.97'
Bank-Full Depth= 8.60' Flow Area= 520.1 sf, Capacity= 2,482.04 cfs

2.00' x 8.60' deep channel, n= 0.100
Side Slope Z-value= 7.7 5.9 '/' Top Width= 118.96'
Length= 157.2' Slope= 0.0146 '/'
Inlet Invert= 158.20', Outlet Invert= 155.90'



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Summary for Pond 301.2: Drywell A (1.02 in/hr) (2' Deep)

Inflow Area = 0.046 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.47 cfs @ 12.00 hrs, Volume= 0.032 af
Outflow = 0.45 cfs @ 12.01 hrs, Volume= 0.032 af, Atten= 4%, Lag= 0.6 min
Discarded = 0.00 cfs @ 2.98 hrs, Volume= 0.007 af
Primary = 0.45 cfs @ 12.01 hrs, Volume= 0.025 af
Routed to Pond 302 : 3 x 15" Pipe

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.28' @ 12.01 hrs Surf.Area= 116 sf Storage= 88 cf

Plug-Flow detention time= 71.4 min calculated for 0.032 af (100% of inflow)
Center-of-Mass det. time= 71.4 min (806.3 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#2	997.00'	38 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 116 cf Overall x 33.0% Voids
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		48 cf	x 2.00 = 97 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	58	0	0
999.00	58	116	116

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Orifice X 2.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 2.98 hrs HW=997.04' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.44 cfs @ 12.01 hrs HW=1,000.28' TW=378.93' (Dynamic Tailwater)
2=Dome Orifice (Orifice Controls 0.44 cfs @ 2.55 fps)

Summary for Pond 301.4: Drywell B (1.02 in/hr) (1' Deep)

Inflow Area = 0.069 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.70 cfs @ 12.00 hrs, Volume= 0.047 af
Outflow = 0.67 cfs @ 12.01 hrs, Volume= 0.047 af, Atten= 4%, Lag= 0.6 min
Discarded = 0.01 cfs @ 4.97 hrs, Volume= 0.014 af
Primary = 0.67 cfs @ 12.01 hrs, Volume= 0.033 af
Routed to Pond 302 : 3 x 15" Pipe

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.28' @ 12.01 hrs Surf.Area= 285 sf Storage= 111 cf

Plug-Flow detention time= 49.0 min calculated for 0.047 af (100% of inflow)
Center-of-Mass det. time= 49.1 min (784.0 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	998.00'	31 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 95 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		41 cf	x 3.00 = 124 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
998.00	95	0	0
999.00	95	95	95

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	998.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.01 cfs @ 4.97 hrs HW=998.03' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.66 cfs @ 12.01 hrs HW=1,000.28' TW=378.93' (Dynamic Tailwater)
2=Dome Grate (Orifice Controls 0.66 cfs @ 2.54 fps)

Summary for Pond 301.6: Drywell D (1.02 in/hr) (2' Deep)

Inflow Area = 0.057 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.58 cfs @ 12.00 hrs, Volume= 0.039 af
Outflow = 0.57 cfs @ 12.00 hrs, Volume= 0.039 af, Atten= 1%, Lag= 0.2 min
Discarded = 0.00 cfs @ 2.90 hrs, Volume= 0.008 af
Primary = 0.57 cfs @ 12.00 hrs, Volume= 0.031 af
Routed to Pond 302 : 3 x 15" Pipe

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.10' @ 12.00 hrs Surf.Area= 140 sf Storage= 103 cf

Plug-Flow detention time= 70.2 min calculated for 0.039 af (100% of inflow)
Center-of-Mass det. time= 70.2 min (805.1 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	18 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 56 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		29 cf	x 5.00 = 143 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	28	0	0
999.00	28	56	56

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 5.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 2.90 hrs HW=997.04' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.57 cfs @ 12.00 hrs HW=1,000.10' TW=378.91' (Dynamic Tailwater)
↑**2=Dome Grate** (Weir Controls 0.57 cfs @ 1.05 fps)

Summary for Pond 302: 3 x 15" Pipe

Inflow Area = 7.045 ac, 5.31% Impervious, Inflow Depth = 3.49" for 100-Year event
Inflow = 15.19 cfs @ 12.38 hrs, Volume= 2.052 af
Outflow = 15.19 cfs @ 12.38 hrs, Volume= 2.052 af, Atten= 0%, Lag= 0.0 min
Primary = 15.19 cfs @ 12.38 hrs, Volume= 2.052 af
Routed to Reach 303A : Swale D

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 379.58' @ 12.38 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	378.00'	**15.00" Round Culvert X 3.00** L= 42.0' CMP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 378.00' / 377.79' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=15.19 cfs @ 12.38 hrs HW=379.58' TW=378.50' (Dynamic Tailwater)
↑**1=Culvert** (Barrel Controls 15.19 cfs @ 4.21 fps)

Summary for Pond 304.2: Drywell D (1.02 in/hr) (2' Deep)

Inflow Area = 0.057 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.58 cfs @ 12.00 hrs, Volume= 0.039 af
Outflow = 0.57 cfs @ 12.00 hrs, Volume= 0.039 af, Atten= 1%, Lag= 0.2 min
Discarded = 0.00 cfs @ 2.90 hrs, Volume= 0.008 af
Primary = 0.57 cfs @ 12.00 hrs, Volume= 0.031 af
Routed to Reach 303B : Swale D

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.10' @ 12.00 hrs Surf.Area= 140 sf Storage= 103 cf

Plug-Flow detention time= 70.2 min calculated for 0.039 af (100% of inflow)
Center-of-Mass det. time= 70.2 min (805.1 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	18 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 56 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		29 cf	x 5.00 = 143 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	28	0	0
999.00	28	56	56

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 5.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 2.90 hrs HW=997.04' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.57 cfs @ 12.00 hrs HW=1,000.10' TW=370.91' (Dynamic Tailwater)
2=Dome Grate (Weir Controls 0.57 cfs @ 1.05 fps)

Summary for Pond 306: Forebay D North (367.5, 371)

Inflow Area = 8.943 ac, 6.53% Impervious, Inflow Depth = 3.61" for 100-Year event
Inflow = 18.47 cfs @ 12.36 hrs, Volume= 2.689 af
Outflow = 18.47 cfs @ 12.36 hrs, Volume= 2.689 af, Atten= 0%, Lag= 0.0 min
Primary = 2.08 cfs @ 12.35 hrs, Volume= 1.135 af
Routed to Pond 314 : WQ Pond D (365.5, 370.25)(2.41in/hr)
Secondary = 16.39 cfs @ 12.37 hrs, Volume= 1.554 af
Routed to Pond 317 : QP Pond D (366.5, 370.25) (2.41 in/hr)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 370.29' @ 12.37 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	369.50'	**6.00" Round Culvert X 3.00** L= 73.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 369.50' / 365.50' S= 0.0548 '/' Cc= 0.900 n= 0.012, Flow Area= 0.20 sf
#2	Secondary	369.85'	**19.0' long x 0.5' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Primary OutFlow Max=2.08 cfs @ 12.35 hrs HW=370.29' TW=369.04' (Dynamic Tailwater)
1=Culvert (Inlet Controls 2.08 cfs @ 3.54 fps)

Secondary OutFlow Max=16.39 cfs @ 12.37 hrs HW=370.29' TW=369.10' (Dynamic Tailwater)
2=Broad-Crested Rectangular Weir (Weir Controls 16.39 cfs @ 1.96 fps)

Summary for Pond 308: 2 x 18" Pipe

Inflow Area = 1.076 ac, 34.01% Impervious, Inflow Depth = 5.38" for 100-Year event
Inflow = 6.75 cfs @ 12.09 hrs, Volume= 0.482 af
Outflow = 6.75 cfs @ 12.09 hrs, Volume= 0.482 af, Atten= 0%, Lag= 0.0 min
Primary = 6.75 cfs @ 12.09 hrs, Volume= 0.482 af
Routed to Pond 311 : Forebay D South (364, 370)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 369.26' @ 12.59 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	366.29'	**18.00" Round Culvert X 2.00** L= 59.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 366.29' / 366.00' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf

Primary OutFlow Max=5.42 cfs @ 12.09 hrs HW=368.29' TW=368.18' (Dynamic Tailwater)
1=Culvert (Inlet Controls 5.42 cfs @ 1.53 fps)

Summary for Pond 311: Forebay D South (364, 370)

Inflow Area = 2.019 ac, 32.39% Impervious, Inflow Depth = 5.29" for 100-Year event
Inflow = 12.29 cfs @ 12.09 hrs, Volume= 0.890 af
Outflow = 12.29 cfs @ 12.09 hrs, Volume= 0.890 af, Atten= 0%, Lag= 0.0 min
Primary = 12.29 cfs @ 12.09 hrs, Volume= 0.890 af
Routed to Pond 314 : WQ Pond D (365.5, 370.25)(2.41in/hr)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 369.25' @ 12.58 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	366.00'	**8.0' long x 0.5' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=368.19' TW=368.24' (Dynamic Tailwater)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 313.2: Drywell D (1.02 in/hr) (2' Deep)

Inflow Area = 0.023 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af
Outflow = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af, Atten= 1%, Lag= 0.2 min
Discarded = 0.00 cfs @ 2.87 hrs, Volume= 0.003 af
Primary = 0.23 cfs @ 12.00 hrs, Volume= 0.012 af
Routed to Pond 314 : WQ Pond D (365.5, 370.25)(2.41in/hr)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.10' @ 12.00 hrs Surf.Area= 56 sf Storage= 41 cf

Plug-Flow detention time= 69.7 min calculated for 0.016 af (100% of inflow)
Center-of-Mass det. time= 69.8 min (804.7 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	18 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 56 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		29 cf	x 2.00 = 57 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	28	0	0
999.00	28	56	56

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 2.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 2.87 hrs HW=997.04' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.23 cfs @ 12.00 hrs HW=1,000.10' TW=367.79' (Dynamic Tailwater)
2=Dome Grate (Weir Controls 0.23 cfs @ 1.05 fps)

Summary for Pond 314: WQ Pond D (365.5, 370.25)(2.41in/hr)

Inflow Area = 11.623 ac, 10.85% Impervious, Inflow Depth = 2.32" for 100-Year event
Inflow = 16.90 cfs @ 12.08 hrs, Volume= 2.245 af
Outflow = 9.94 cfs @ 12.09 hrs, Volume= 2.245 af, Atten= 41%, Lag= 0.1 min
Discarded = 0.31 cfs @ 12.57 hrs, Volume= 0.334 af
Primary = 9.69 cfs @ 12.09 hrs, Volume= 1.911 af
Routed to Pond 317 : QP Pond D (366.5, 370.25) (2.41 in/hr)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 369.25' @ 12.57 hrs Surf.Area= 5,555 sf Storage= 13,927 cf

Plug-Flow detention time= 51.0 min calculated for 2.245 af (100% of inflow)
Center-of-Mass det. time= 51.0 min (944.5 - 893.6)

Volume	Invert	Avail.Storage	Storage Description
#1	365.50'	19,959 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
365.50	1,976	0	0
368.00	4,255	7,789	7,789
370.00	6,332	10,587	18,376
370.25	6,332	1,583	19,959

Device	Routing	Invert	Outlet Devices
#1	Discarded	365.50'	**2.410 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	366.50'	**20.0' long x 27.2' 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

Discarded OutFlow Max=0.31 cfs @ 12.57 hrs HW=369.25' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.31 cfs)

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=368.22' TW=368.27' (Dynamic Tailwater)
2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 317: QP Pond D (366.5, 370.25) (2.41 in/hr)

Inflow Area = 12.311 ac, 10.24% Impervious, Inflow Depth = 3.67" for 100-Year event
Inflow = 27.67 cfs @ 12.09 hrs, Volume= 3.762 af
Outflow = 17.55 cfs @ 12.56 hrs, Volume= 3.762 af, Atten= 37%, Lag= 28.4 min
Discarded = 0.81 cfs @ 12.56 hrs, Volume= 0.691 af
Primary = 16.73 cfs @ 12.56 hrs, Volume= 3.071 af
Routed to Reach 317A : Wetland/Stream
Secondary = 0.00 cfs @ 12.56 hrs, Volume= 0.000 af
Routed to Reach 317A : Wetland/Stream

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 369.25' @ 12.56 hrs Surf.Area= 14,581 sf Storage= 30,754 cf

Plug-Flow detention time= 37.9 min calculated for 3.762 af (100% of inflow)
Center-of-Mass det. time= 37.9 min (884.9 - 847.0)

Volume	Invert	Avail.Storage	Storage Description
#1	366.50'	46,661 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
366.50	7,152	0	0
367.00	9,228	4,095	4,095
369.00	13,857	23,085	27,180
370.00	16,736	15,297	42,477
370.25	16,736	4,184	46,661

Device	Routing	Invert	Outlet Devices
#1	Discarded	366.50'	**2.410 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Device 3	366.70'	**16.00" W x 27.00" H Vert. Orifice #1** C= 0.600 Limited to weir flow at low heads
#3	Primary	365.65'	**24.00" Round Culvert** L= 46.8' Ke= 0.500 Inlet / Outlet Invert= 365.65' / 360.00' S= 0.1207 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf
#4	Secondary	369.25'	**26.5' long x 14.5' breadth Emergency Overflow Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.66 2.69 2.70 2.65 2.63 2.65 2.64 2.63

Discarded OutFlow Max=0.81 cfs @ 12.56 hrs HW=369.25' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.81 cfs)

Primary OutFlow Max=16.73 cfs @ 12.56 hrs HW=369.25' TW=360.48' (Dynamic Tailwater)
└**3=Culvert** (Passes 16.73 cfs of 24.40 cfs potential flow)
└**2=Orifice #1** (Orifice Controls 16.73 cfs @ 5.58 fps)

Secondary OutFlow Max=0.00 cfs @ 12.56 hrs HW=369.25' TW=360.48' (Dynamic Tailwater)
└**4=Emergency Overflow Weir** (Weir Controls 0.00 cfs @ 0.10 fps)

Summary for Pond 319: 15" Pipe

Inflow Area = 0.486 ac, 32.51% Impervious, Inflow Depth = 5.26" for 100-Year event
Inflow = 2.99 cfs @ 12.09 hrs, Volume= 0.213 af
Outflow = 2.99 cfs @ 12.09 hrs, Volume= 0.213 af, Atten= 0%, Lag= 0.0 min
Primary = 2.99 cfs @ 12.09 hrs, Volume= 0.213 af
Routed to Reach 320 : Road Swale

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 381.74' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	380.85'	**15.00" Round Culvert** L= 100.5' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 380.85' / 377.40' S= 0.0343 '/' Cc= 0.900 n= 0.013, Flow Area= 1.23 sf

Primary OutFlow Max=2.98 cfs @ 12.09 hrs HW=381.74' TW=378.54' (Dynamic Tailwater)
1=Culvert (Inlet Controls 2.98 cfs @ 3.21 fps)

Summary for Pond 321.2: Drywell D (1.02 in/hr) (2' Deep)

Inflow Area = 0.011 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.11 cfs @ 12.00 hrs, Volume= 0.008 af
Outflow = 0.11 cfs @ 12.00 hrs, Volume= 0.008 af, Atten= 1%, Lag= 0.2 min
Discarded = 0.00 cfs @ 3.01 hrs, Volume= 0.002 af
Primary = 0.11 cfs @ 12.00 hrs, Volume= 0.006 af
Routed to Pond 322 : 24" Pipe

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.10' @ 12.00 hrs Surf.Area= 28 sf Storage= 21 cf

Plug-Flow detention time= 72.2 min calculated for 0.008 af (100% of inflow)
Center-of-Mass det. time= 72.2 min (807.1 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	18 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 56 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		29 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	28	0	0
999.00	28	56	56

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 3.01 hrs HW=997.04' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.11 cfs @ 12.00 hrs HW=1,000.10' TW=295.79' (Dynamic Tailwater)
↑**2=Dome Grate** (Weir Controls 0.11 cfs @ 1.04 fps)

Summary for Pond 322: 24" Pipe

Inflow Area = 2.821 ac, 32.68% Impervious, Inflow Depth = 5.26" for 100-Year event
Inflow = 16.26 cfs @ 12.12 hrs, Volume= 1.237 af
Outflow = 16.26 cfs @ 12.12 hrs, Volume= 1.237 af, Atten= 0%, Lag= 0.0 min
Primary = 16.26 cfs @ 12.12 hrs, Volume= 1.237 af
Routed to Reach 323 : Swale E

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 296.66' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	294.50'	**24.00" Round Culvert** L= 110.5' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 294.50' / 291.10' S= 0.0308 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf

Primary OutFlow Max=16.25 cfs @ 12.12 hrs HW=296.65' TW=291.70' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 16.25 cfs @ 5.17 fps)

Summary for Pond 325.2: Drywell E (1.02 in/hr) (1' Deep)

Inflow Area = 0.046 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.47 cfs @ 12.00 hrs, Volume= 0.032 af
Outflow = 0.46 cfs @ 12.00 hrs, Volume= 0.032 af, Atten= 1%, Lag= 0.2 min
Discarded = 0.00 cfs @ 4.65 hrs, Volume= 0.009 af
Primary = 0.46 cfs @ 12.00 hrs, Volume= 0.023 af
Routed to Pond 326 : Forebay E (277.5, 282)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.10' @ 12.00 hrs Surf.Area= 180 sf Storage= 68 cf

Plug-Flow detention time= 47.7 min calculated for 0.032 af (100% of inflow)
Center-of-Mass det. time= 47.7 min (782.6 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	998.00'	15 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 45 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		25 cf	x 4.00 = 100 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
998.00	45	0	0
999.00	45	45	45

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	998.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 4.65 hrs HW=998.03' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.46 cfs @ 12.00 hrs HW=1,000.10' TW=280.90' (Dynamic Tailwater)
↑—**2=Dome Grate** (Weir Controls 0.46 cfs @ 1.05 fps)

Summary for Pond 326: Forebay E (277.5, 282)

Inflow Area = 5.139 ac, 29.93% Impervious, Inflow Depth = 5.05" for 100-Year event
Inflow = 28.37 cfs @ 12.11 hrs, Volume= 2.163 af
Outflow = 28.37 cfs @ 12.11 hrs, Volume= 2.163 af, Atten= 0%, Lag= 0.0 min
Primary = 11.43 cfs @ 12.11 hrs, Volume= 1.479 af
Routed to Pond 329 : WQ Pond E (279, 282)(1.02in/hr)
Secondary = 16.93 cfs @ 12.11 hrs, Volume= 0.684 af
Routed to Pond 332 : QP Pond E (276.50, 281) (1.02 in/hr)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 281.03' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	280.50'	**12.0' long x 0.5' breadth WQ Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Secondary	280.65'	**25.0' long x 0.5' breadth QP Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Primary OutFlow Max=11.41 cfs @ 12.11 hrs HW=281.03' TW=280.79' (Dynamic Tailwater)
1=WQ Weir (Weir Controls 11.41 cfs @ 1.80 fps)

Secondary OutFlow Max=16.92 cfs @ 12.11 hrs HW=281.03' TW=278.92' (Dynamic Tailwater)
2=QP Weir (Weir Controls 16.92 cfs @ 1.79 fps)

Summary for Pond 328.2: Drywell A (1.02 in/hr) (2' Deep)

Inflow Area = 0.023 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af
Outflow = 0.22 cfs @ 12.01 hrs, Volume= 0.016 af, Atten= 4%, Lag= 0.6 min
Discarded = 0.00 cfs @ 2.98 hrs, Volume= 0.003 af
Primary = 0.22 cfs @ 12.01 hrs, Volume= 0.012 af
Routed to Pond 329 : WQ Pond E (279, 282)(1.02in/hr)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.28' @ 12.01 hrs Surf.Area= 58 sf Storage= 44 cf

Plug-Flow detention time= 71.4 min calculated for 0.016 af (100% of inflow)
Center-of-Mass det. time= 71.4 min (806.3 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#2	997.00'	38 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 116 cf Overall x 33.0% Voids
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		48 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	58	0	0
999.00	58	116	116

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Orifice** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 2.98 hrs HW=997.04' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.22 cfs @ 12.01 hrs HW=1,000.28' TW=280.75' (Dynamic Tailwater)
2=Dome Orifice (Orifice Controls 0.22 cfs @ 2.55 fps)

Summary for Pond 328.4: Drywell D (1.02 in/hr) (2' Deep)

Inflow Area = 0.034 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.35 cfs @ 12.00 hrs, Volume= 0.023 af
Outflow = 0.34 cfs @ 12.00 hrs, Volume= 0.023 af, Atten= 1%, Lag= 0.2 min
Discarded = 0.00 cfs @ 2.92 hrs, Volume= 0.005 af
Primary = 0.34 cfs @ 12.00 hrs, Volume= 0.018 af
Routed to Pond 329 : WQ Pond E (279, 282)(1.02in/hr)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.10' @ 12.00 hrs Surf.Area= 84 sf Storage= 62 cf

Plug-Flow detention time= 70.6 min calculated for 0.023 af (100% of inflow)
Center-of-Mass det. time= 70.6 min (805.5 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	18 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 56 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		29 cf	x 3.00 = 86 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	28	0	0
999.00	28	56	56

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 2.92 hrs HW=997.04' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.34 cfs @ 12.00 hrs HW=1,000.10' TW=280.74' (Dynamic Tailwater)
↑**2=Dome Grate** (Weir Controls 0.34 cfs @ 1.05 fps)

Summary for Pond 329: WQ Pond E (279, 282)(1.02in/hr)

Inflow Area = 6.130 ac, 26.02% Impervious, Inflow Depth = 3.51" for 100-Year event
Inflow = 15.16 cfs @ 12.10 hrs, Volume= 1.793 af
Outflow = 15.12 cfs @ 12.11 hrs, Volume= 1.793 af, Atten= 0%, Lag= 0.5 min
Discarded = 0.08 cfs @ 12.11 hrs, Volume= 0.202 af
Primary = 15.04 cfs @ 12.11 hrs, Volume= 1.590 af
Routed to Pond 332 : QP Pond E (276.50, 281) (1.02 in/hr)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 280.79' @ 12.11 hrs Surf.Area= 3,483 sf Storage= 4,916 cf

Plug-Flow detention time= 77.2 min calculated for 1.793 af (100% of inflow)
Center-of-Mass det. time= 77.3 min (931.7 - 854.4)

Volume	Invert	Avail.Storage	Storage Description
#1	279.00'	9,770 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
279.00	2,014	0	0
281.00	3,656	5,670	5,670
282.00	4,544	4,100	9,770

Device	Routing	Invert	Outlet Devices
#1	Discarded	279.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	280.60'	**70.0' long x 13.4' 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) 2.62 2.66 2.70 2.66 2.65 2.66 2.65 2.63

Discarded OutFlow Max=0.08 cfs @ 12.11 hrs HW=280.79' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.08 cfs)

Primary OutFlow Max=15.03 cfs @ 12.11 hrs HW=280.79' TW=278.91' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Weir Controls 15.03 cfs @ 1.14 fps)

Summary for Pond 332: QP Pond E (276.50, 281) (1.02 in/hr)

Inflow Area = 6.691 ac, 23.84% Impervious, Inflow Depth = 4.57" for 100-Year event
Inflow = 33.99 cfs @ 12.11 hrs, Volume= 2.546 af
Outflow = 8.49 cfs @ 12.53 hrs, Volume= 2.546 af, Atten= 75%, Lag= 25.4 min
Discarded = 0.38 cfs @ 12.53 hrs, Volume= 0.679 af
Primary = 7.52 cfs @ 12.53 hrs, Volume= 1.860 af
Routed to Reach 332A : Wetland
Secondary = 0.59 cfs @ 12.53 hrs, Volume= 0.006 af
Routed to Reach 332A : Wetland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 280.04' @ 12.53 hrs Surf.Area= 16,081 sf Storage= 46,239 cf

Plug-Flow detention time= 197.0 min calculated for 2.546 af (100% of inflow)
Center-of-Mass det. time= 197.1 min (1,020.5 - 823.4)

Volume	Invert	Avail.Storage	Storage Description
#1	276.50'	62,442 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
276.50	10,145	0	0
277.00	10,921	5,267	5,267
279.00	14,242	25,163	30,430
281.00	17,770	32,012	62,442

Device	Routing	Invert	Outlet Devices
#1	Discarded	276.50'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Device 3	277.65'	**12.00" W x 14.00" H Vert. Orifice #1** C= 0.600 Limited to weir flow at low heads
#3	Primary	277.25'	**15.00" Round Culvert** L= 57.1' Ke= 0.500 Inlet / Outlet Invert= 277.25' / 268.00' S= 0.1620 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf
#4	Secondary	280.00'	**25.0' long x 16.0' breadth Emergency Overflow 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

Discarded OutFlow Max=0.38 cfs @ 12.53 hrs HW=280.04' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.38 cfs)

Primary OutFlow Max=7.52 cfs @ 12.53 hrs HW=280.04' TW=268.16' (Dynamic Tailwater)
└**3=Culvert** (Passes 7.52 cfs of 8.70 cfs potential flow)
└**2=Orifice #1** (Orifice Controls 7.52 cfs @ 6.45 fps)

Secondary OutFlow Max=0.59 cfs @ 12.53 hrs HW=280.04' TW=268.16' (Dynamic Tailwater)
└**4=Emergency Overflow Weir** (Weir Controls 0.59 cfs @ 0.55 fps)

Summary for Pond 334.2: Drywell A (1.02 in/hr) (2' Deep)

Inflow Area = 0.138 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 1.41 cfs @ 12.00 hrs, Volume= 0.095 af
Outflow = 1.34 cfs @ 12.01 hrs, Volume= 0.095 af, Atten= 4%, Lag= 0.6 min
Discarded = 0.01 cfs @ 2.98 hrs, Volume= 0.021 af
Primary = 1.34 cfs @ 12.01 hrs, Volume= 0.074 af
Routed to Reach 335 : Road Swale

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.28' @ 12.01 hrs Surf.Area= 348 sf Storage= 264 cf

Plug-Flow detention time= 71.4 min calculated for 0.095 af (100% of inflow)
Center-of-Mass det. time= 71.4 min (806.3 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#2	997.00'	38 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 116 cf Overall x 33.0% Voids
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		48 cf	x 6.00 = 290 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	58	0	0
999.00	58	116	116

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Orifice X 6.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.01 cfs @ 2.98 hrs HW=997.04' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=1.33 cfs @ 12.01 hrs HW=1,000.28' TW=314.34' (Dynamic Tailwater)
↑**2=Dome Orifice** (Orifice Controls 1.33 cfs @ 2.55 fps)

Summary for Pond 334.4: Drywell B (1.02 in/hr) (1' Deep)

Inflow Area = 0.023 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af
Outflow = 0.22 cfs @ 12.01 hrs, Volume= 0.016 af, Atten= 4%, Lag= 0.6 min
Discarded = 0.00 cfs @ 4.97 hrs, Volume= 0.005 af
Primary = 0.22 cfs @ 12.01 hrs, Volume= 0.011 af
Routed to Reach 335 : Road Swale

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.28' @ 12.01 hrs Surf.Area= 95 sf Storage= 37 cf

Plug-Flow detention time= 49.0 min calculated for 0.016 af (100% of inflow)
Center-of-Mass det. time= 49.1 min (784.0 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	998.00'	31 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 95 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		41 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
998.00	95	0	0
999.00	95	95	95

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	998.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 4.97 hrs HW=998.03' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.22 cfs @ 12.01 hrs HW=1,000.28' TW=314.34' (Dynamic Tailwater)
↑**2=Dome Grate** (Orifice Controls 0.22 cfs @ 2.54 fps)

Summary for Pond 334.6: Drywell D (1.02 in/hr) (2' Deep)

Inflow Area = 0.345 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 3.51 cfs @ 12.00 hrs, Volume= 0.237 af
Outflow = 3.47 cfs @ 12.00 hrs, Volume= 0.237 af, Atten= 1%, Lag= 0.2 min
Discarded = 0.02 cfs @ 2.87 hrs, Volume= 0.050 af
Primary = 3.45 cfs @ 12.00 hrs, Volume= 0.187 af
Routed to Reach 335 : Road Swale

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.10' @ 12.00 hrs Surf.Area= 840 sf Storage= 620 cf

Plug-Flow detention time= 69.7 min calculated for 0.237 af (100% of inflow)
Center-of-Mass det. time= 69.8 min (804.7 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	18 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 56 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		29 cf	x 30.00 = 858 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	28	0	0
999.00	28	56	56

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 30.00** C= 0.600

Limited to weir flow at low heads

Discarded OutFlow Max=0.02 cfs @ 2.87 hrs HW=997.04' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.02 cfs)

Primary OutFlow Max=3.43 cfs @ 12.00 hrs HW=1,000.10' TW=314.32' (Dynamic Tailwater)
2=Dome Grate (Weir Controls 3.43 cfs @ 1.05 fps)

Summary for Pond 334.8: Drywell E (1.02 in/hr) (1' Deep)

Inflow Area = 0.023 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af
Outflow = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af, Atten= 1%, Lag= 0.2 min
Discarded = 0.00 cfs @ 4.65 hrs, Volume= 0.005 af
Primary = 0.23 cfs @ 12.00 hrs, Volume= 0.011 af
Routed to Reach 335 : Road Swale

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.10' @ 12.00 hrs Surf.Area= 90 sf Storage= 34 cf

Plug-Flow detention time= 47.7 min calculated for 0.016 af (100% of inflow)
Center-of-Mass det. time= 47.7 min (782.6 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	998.00'	15 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 45 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		25 cf	x 2.00 = 50 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
998.00	45	0	0
999.00	45	45	45

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	998.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 2.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 4.65 hrs HW=998.03' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.23 cfs @ 12.00 hrs HW=1,000.10' TW=314.32' (Dynamic Tailwater)
2=Dome Grate (Weir Controls 0.23 cfs @ 1.05 fps)

Summary for Pond 336: 3 x 30" Pipe

Inflow Area = 15.051 ac, 7.96% Impervious, Inflow Depth = 3.81" for 100-Year event
Inflow = 58.83 cfs @ 12.12 hrs, Volume= 4.785 af
Outflow = 58.83 cfs @ 12.12 hrs, Volume= 4.785 af, Atten= 0%, Lag= 0.0 min
Primary = 58.83 cfs @ 12.12 hrs, Volume= 4.785 af
Routed to Reach 338A : Swale F

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 311.14' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	309.00'	**30.00" Round Culvert X 3.00** L= 42.2' CMP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 309.00' / 305.83' S= 0.0751 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=58.82 cfs @ 12.12 hrs HW=311.14' TW=306.89' (Dynamic Tailwater)
1=Culvert (Inlet Controls 58.82 cfs @ 4.39 fps)

Summary for Pond 339.2: Drywell D (1.02 in/hr) (2' Deep)

Inflow Area = 0.011 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.11 cfs @ 12.00 hrs, Volume= 0.008 af
Outflow = 0.11 cfs @ 12.00 hrs, Volume= 0.008 af, Atten= 1%, Lag= 0.2 min
Discarded = 0.00 cfs @ 3.01 hrs, Volume= 0.002 af
Primary = 0.11 cfs @ 12.00 hrs, Volume= 0.006 af
Routed to Reach 338B : Swale F

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.10' @ 12.00 hrs Surf.Area= 28 sf Storage= 21 cf

Plug-Flow detention time= 72.2 min calculated for 0.008 af (100% of inflow)
Center-of-Mass det. time= 72.2 min (807.1 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	18 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 56 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		29 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	28	0	0
999.00	28	56	56

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 3.01 hrs HW=997.04' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.11 cfs @ 12.00 hrs HW=1,000.10' TW=297.79' (Dynamic Tailwater)
└**2=Dome Grate** (Weir Controls 0.11 cfs @ 1.04 fps)

Summary for Pond 341: Forebay F East (284.0, 289)

Inflow Area = 16.416 ac, 8.73% Impervious, Inflow Depth = 3.87" for 100-Year event
Inflow = 64.82 cfs @ 12.12 hrs, Volume= 5.297 af
Outflow = 64.82 cfs @ 12.12 hrs, Volume= 5.297 af, Atten= 0%, Lag= 0.0 min
Primary = 2.57 cfs @ 12.12 hrs, Volume= 1.751 af
Routed to Pond 350 : WQ Pond F (283, 287)(2.41in/hr)
Secondary = 62.25 cfs @ 12.12 hrs, Volume= 3.546 af
Routed to Pond 352 : QP Pond F (280, 287.1) (0.482 in/hr)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 288.07' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	287.00'	**6.00" Round Culvert X 3.00** L= 32.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 287.00' / 281.00' S= 0.1875 '/' Cc= 0.900 n= 0.012, Flow Area= 0.20 sf
#2	Secondary	287.50'	**47.0' long x 0.5' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Primary OutFlow Max=2.57 cfs @ 12.12 hrs HW=288.07' TW=285.96' (Dynamic Tailwater)
└**1=Culvert** (Inlet Controls 2.57 cfs @ 4.37 fps)

Secondary OutFlow Max=62.18 cfs @ 12.12 hrs HW=288.07' TW=285.03' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Weir Controls 62.18 cfs @ 2.31 fps)

Summary for Pond 342.2: Drywell C (1.02 in/hr) (0.5' Deep)

Inflow Area = 0.023 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af
Outflow = 0.23 cfs @ 12.01 hrs, Volume= 0.016 af, Atten= 3%, Lag= 0.5 min
Discarded = 0.01 cfs @ 9.54 hrs, Volume= 0.010 af
Primary = 0.22 cfs @ 12.01 hrs, Volume= 0.005 af
Routed to Pond 343 : 2X 15" Pipe

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs

Peak Elev= 1,000.10' @ 12.01 hrs Surf.Area= 310 sf Storage= 117 cf

Plug-Flow detention time= 77.5 min calculated for 0.016 af (100% of inflow)
Center-of-Mass det. time= 77.5 min (812.4 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	998.50'	26 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 78 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	42 cf	**6.00'D x 1.50'H Pipe Storage**-Impervious
		78 cf	x 2.00 = 156 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
998.50	155	0	0
999.00	155	78	78

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	998.50'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 2.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.01 cfs @ 9.54 hrs HW=998.52' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.22 cfs @ 12.01 hrs HW=1,000.10' TW=309.11' (Dynamic Tailwater)
2=Dome Grate (Weir Controls 0.22 cfs @ 1.04 fps)

Summary for Pond 343: 2X 15" Pipe

Inflow Area = 2.067 ac, 34.01% Impervious, Inflow Depth = 5.23" for 100-Year event
Inflow = 12.27 cfs @ 12.10 hrs, Volume= 0.901 af
Outflow = 12.27 cfs @ 12.10 hrs, Volume= 0.901 af, Atten= 0%, Lag= 0.0 min
Primary = 12.27 cfs @ 12.10 hrs, Volume= 0.901 af
Routed to Reach 344 : Swale

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 309.86' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	307.90'	**15.00" Round Culvert X 2.00** L= 44.8' Ke= 0.500 Inlet / Outlet Invert= 307.90' / 307.68' S= 0.0049 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=12.26 cfs @ 12.10 hrs HW=309.86' TW=308.19' (Dynamic Tailwater)
1=Culvert (Barrel Controls 12.26 cfs @ 5.00 fps)

Summary for Pond 347: Forebay F West (278, 287)

Inflow Area = 2.704 ac, 33.58% Impervious, Inflow Depth = 5.23" for 100-Year event
Inflow = 15.88 cfs @ 12.11 hrs, Volume= 1.178 af
Outflow = 15.88 cfs @ 12.11 hrs, Volume= 1.178 af, Atten= 0%, Lag= 0.0 min
Primary = 0.66 cfs @ 10.85 hrs, Volume= 0.074 af
Routed to Pond 350 : WQ Pond F (283, 287)(2.41in/hr)
Secondary = 15.88 cfs @ 12.11 hrs, Volume= 1.104 af
Routed to Pond 352 : QP Pond F (280, 287.1) (0.482 in/hr)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 286.12' @ 12.41 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	281.00'	**6.00" Round Culvert X 2.00** L= 31.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 281.00' / 281.00' S= 0.0000 '/' Cc= 0.900 n= 0.012, Flow Area= 0.20 sf
#2	Secondary	285.00'	**19.0' long x 0.5' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Primary OutFlow Max=0.63 cfs @ 10.85 hrs HW=284.99' TW=284.85' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.63 cfs @ 1.61 fps)

Secondary OutFlow Max=15.86 cfs @ 12.11 hrs HW=285.43' TW=284.82' (Dynamic Tailwater)
2=Broad-Crested Rectangular Weir (Weir Controls 15.86 cfs @ 1.93 fps)

Summary for Pond 349.2: Drywell A (1.02 in/hr) (2' Deep)

Inflow Area = 0.023 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af
Outflow = 0.22 cfs @ 12.01 hrs, Volume= 0.016 af, Atten= 4%, Lag= 0.6 min
Discarded = 0.00 cfs @ 2.98 hrs, Volume= 0.003 af
Primary = 0.22 cfs @ 12.01 hrs, Volume= 0.012 af
Routed to Pond 350 : WQ Pond F (283, 287)(2.41in/hr)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.28' @ 12.01 hrs Surf.Area= 58 sf Storage= 44 cf

Plug-Flow detention time= 71.4 min calculated for 0.016 af (100% of inflow)
Center-of-Mass det. time= 71.4 min (806.3 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#2	997.00'	38 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 116 cf Overall x 33.0% Voids
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		48 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	58	0	0
999.00	58	116	116

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Orifice** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 2.98 hrs HW=997.04' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.22 cfs @ 12.01 hrs HW=1,000.28' TW=285.93' (Dynamic Tailwater)
↑—**2=Dome Orifice** (Orifice Controls 0.22 cfs @ 2.55 fps)

Summary for Pond 349.4: Drywell D (1.02 in/hr) (2' Deep)

Inflow Area = 0.046 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.47 cfs @ 12.00 hrs, Volume= 0.032 af
Outflow = 0.46 cfs @ 12.00 hrs, Volume= 0.032 af, Atten= 1%, Lag= 0.2 min
Discarded = 0.00 cfs @ 2.87 hrs, Volume= 0.007 af
Primary = 0.46 cfs @ 12.00 hrs, Volume= 0.025 af
Routed to Pond 350 : WQ Pond F (283, 287)(2.41in/hr)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.10' @ 12.00 hrs Surf.Area= 112 sf Storage= 83 cf

Plug-Flow detention time= 69.7 min calculated for 0.032 af (100% of inflow)
Center-of-Mass det. time= 69.8 min (804.7 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	18 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 56 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		29 cf	x 4.00 = 114 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	28	0	0
999.00	28	56	56

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 2.87 hrs HW=997.04' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.46 cfs @ 12.00 hrs HW=1,000.10' TW=285.93' (Dynamic Tailwater)
2=Dome Grate (Weir Controls 0.46 cfs @ 1.05 fps)

Summary for Pond 350: WQ Pond F (283, 287)(2.41in/hr)

Inflow Area = 20.268 ac, 11.89% Impervious, Inflow Depth = 1.29" for 100-Year event
Inflow = 5.97 cfs @ 12.17 hrs, Volume= 2.187 af
Outflow = 5.84 cfs @ 12.21 hrs, Volume= 2.187 af, Atten= 2%, Lag= 2.4 min
Discarded = 0.33 cfs @ 12.42 hrs, Volume= 0.673 af
Primary = 5.52 cfs @ 12.21 hrs, Volume= 1.514 af
Routed to Pond 352 : QP Pond F (280, 287.1) (0.482 in/hr)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 286.13' @ 12.42 hrs Surf.Area= 5,975 sf Storage= 14,051 cf

Plug-Flow detention time= 152.0 min calculated for 2.187 af (100% of inflow)
Center-of-Mass det. time= 152.0 min (1,094.0 - 941.9)

Volume	Invert	Avail.Storage	Storage Description
#1	283.00'	19,581 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
283.00	2,554	0	0
284.00	4,088	3,321	3,321
286.00	5,845	9,933	13,254
287.00	6,809	6,327	19,581

Device	Routing	Invert	Outlet Devices
#1	Discarded	283.00'	**2.410 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	285.75'	**20.0' long x 14.0' 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) 2.64 2.67 2.70 2.65 2.64 2.65 2.65 2.63

Discarded OutFlow Max=0.33 cfs @ 12.42 hrs HW=286.13' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.33 cfs)

Primary OutFlow Max=5.48 cfs @ 12.21 hrs HW=285.97' TW=285.76' (Dynamic Tailwater)
2=Broad-Crested Rectangular Weir (Weir Controls 5.48 cfs @ 1.24 fps)

Summary for Pond 352: QP Pond F (280, 287.1) (0.482 in/hr)

Inflow Area = 20.892 ac, 11.54% Impervious, Inflow Depth = 3.67" for 100-Year event
Inflow = 84.45 cfs @ 12.12 hrs, Volume= 6.381 af
Outflow = 37.00 cfs @ 12.40 hrs, Volume= 6.156 af, Atten= 56%, Lag= 16.9 min
Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Primary = 36.76 cfs @ 12.40 hrs, Volume= 6.154 af
Routed to Reach 352C : Wetland
Secondary = 0.24 cfs @ 12.40 hrs, Volume= 0.001 af
Routed to Reach 352C : Wetland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 286.12' @ 12.40 hrs Surf.Area= 22,044 sf Storage= 79,110 cf

Plug-Flow detention time= 57.4 min calculated for 6.156 af (96% of inflow)
Center-of-Mass det. time= 37.7 min (871.7 - 834.1)

Volume	Invert	Avail.Storage	Storage Description
#1	280.00'	101,592 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
280.00	2,334	0	0
281.00	5,023	3,679	3,679
282.00	9,013	7,018	10,697
283.00	12,495	10,754	21,451
284.00	17,957	15,226	36,677
285.00	19,850	18,904	55,580
286.00	21,796	20,823	76,403
287.10	24,003	25,189	101,592

Device	Routing	Invert	Outlet Devices
#1	Discarded	280.00'	**0.482 in/hr Exfiltration X 0.00 over Surface area** Phase-In= 0.01'
#2	Device 4	281.25'	**10.00" W x 21.00" H Vert. Orifice #1** C= 0.600 Limited to weir flow at low heads
#3	Device 4	283.00'	**16.00" W x 35.00" H Vert. Orifice #2** C= 0.600 Limited to weir flow at low heads
#4	Primary	280.25'	**30.00" Round Culvert** L= 57.9' Ke= 0.500 Inlet / Outlet Invert= 280.25' / 280.00' S= 0.0043 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf
#5	Secondary	286.10'	**25.0' long x 16.0' breadth Overflow 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

Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=280.00' (Free Discharge)
└**1=Exfiltration** (Controls 0.00 cfs)

Primary OutFlow Max=36.76 cfs @ 12.40 hrs HW=286.12' TW=282.24' (Dynamic Tailwater)
└**4=Culvert** (Passes 36.76 cfs of 46.59 cfs potential flow)
  └**2=Orifice #1** (Orifice Controls 13.53 cfs @ 9.28 fps)
  └**3=Orifice #2** (Orifice Controls 23.22 cfs @ 5.97 fps)

Secondary OutFlow Max=0.24 cfs @ 12.40 hrs HW=286.12' TW=282.24' (Dynamic Tailwater)
└**5=Overflow Weir** (Weir Controls 0.24 cfs @ 0.41 fps)

Summary for Pond 352.2: Drywell D (1.02 in/hr) (2' Deep)

Inflow Area = 0.069 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.70 cfs @ 12.00 hrs, Volume= 0.047 af
Outflow = 0.69 cfs @ 12.00 hrs, Volume= 0.047 af, Atten= 1%, Lag= 0.2 min
Discarded = 0.00 cfs @ 2.87 hrs, Volume= 0.010 af
Primary = 0.69 cfs @ 12.00 hrs, Volume= 0.037 af
Routed to Reach 352A : Upland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.10' @ 12.00 hrs Surf.Area= 168 sf Storage= 124 cf

Plug-Flow detention time= 69.7 min calculated for 0.047 af (100% of inflow)
Center-of-Mass det. time= 69.8 min (804.7 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	18 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 56 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		29 cf	x 6.00 = 172 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	28	0	0
999.00	28	56	56

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 6.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 2.87 hrs HW=997.04' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.69 cfs @ 12.00 hrs HW=1,000.10' TW=313.02' (Dynamic Tailwater)
2=Dome Grate (Weir Controls 0.69 cfs @ 1.05 fps)

Summary for Pond 352.4: Drywell H (1.02 in/hr) (2' Deep)

Inflow Area = 0.460 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 4.68 cfs @ 12.00 hrs, Volume= 0.317 af
Outflow = 4.63 cfs @ 12.00 hrs, Volume= 0.317 af, Atten= 1%, Lag= 0.2 min
Discarded = 0.05 cfs @ 6.32 hrs, Volume= 0.125 af
Primary = 4.58 cfs @ 12.00 hrs, Volume= 0.192 af
Routed to Reach 352B : Upland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.10' @ 12.00 hrs Surf.Area= 2,240 sf Storage= 1,565 cf

Plug-Flow detention time= 113.5 min calculated for 0.317 af (100% of inflow)
Center-of-Mass det. time= 113.5 min (848.4 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	37 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 112 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		47 cf	x 40.00 = 1,884 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	56	0	0
999.00	56	112	112

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 40.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.05 cfs @ 6.32 hrs HW=997.04' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.05 cfs)

Primary OutFlow Max=4.55 cfs @ 12.00 hrs HW=1,000.10' TW=335.03' (Dynamic Tailwater)
2=Dome Grate (Weir Controls 4.55 cfs @ 1.05 fps)

Summary for Pond 353.2: Drywell B (1.02 in/hr) (1' Deep)

Inflow Area = 0.069 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.70 cfs @ 12.00 hrs, Volume= 0.047 af
Outflow = 0.67 cfs @ 12.01 hrs, Volume= 0.047 af, Atten= 4%, Lag= 0.6 min
Discarded = 0.01 cfs @ 4.97 hrs, Volume= 0.014 af
Primary = 0.67 cfs @ 12.01 hrs, Volume= 0.033 af
Routed to Reach 354 : Swale G

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.28' @ 12.01 hrs Surf.Area= 285 sf Storage= 111 cf

Plug-Flow detention time= 49.0 min calculated for 0.047 af (100% of inflow)
Center-of-Mass det. time= 49.1 min (784.0 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	998.00'	31 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 95 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		41 cf	x 3.00 = 124 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
998.00	95	0	0
999.00	95	95	95

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	998.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.01 cfs @ 4.97 hrs HW=998.03' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.66 cfs @ 12.01 hrs HW=1,000.28' TW=169.81' (Dynamic Tailwater)
↑**2=Dome Grate** (Orifice Controls 0.66 cfs @ 2.54 fps)

Summary for Pond 356.2: Drywell A (1.02 in/hr) (2' Deep)

Inflow Area = 0.069 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.70 cfs @ 12.00 hrs, Volume= 0.047 af
Outflow = 0.67 cfs @ 12.01 hrs, Volume= 0.047 af, Atten= 4%, Lag= 0.6 min
Discarded = 0.00 cfs @ 2.98 hrs, Volume= 0.010 af
Primary = 0.67 cfs @ 12.01 hrs, Volume= 0.037 af
Routed to Pond 357 : Forebay G (162.5, 167.5)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.28' @ 12.01 hrs Surf.Area= 174 sf Storage= 132 cf

Plug-Flow detention time= 71.4 min calculated for 0.047 af (100% of inflow)
Center-of-Mass det. time= 71.4 min (806.3 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#2	997.00'	38 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 116 cf Overall x 33.0% Voids
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		48 cf	x 3.00 = 145 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	58	0	0
999.00	58	116	116

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Orifice X 3.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 2.98 hrs HW=997.04' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.67 cfs @ 12.01 hrs HW=1,000.28' TW=166.07' (Dynamic Tailwater)
↑—**2=Dome Orifice** (Orifice Controls 0.67 cfs @ 2.55 fps)

Summary for Pond 356.4: Drywell C (1.02 in/hr) (0.5' Deep)

Inflow Area = 0.023 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af
Outflow = 0.21 cfs @ 12.02 hrs, Volume= 0.016 af, Atten= 10%, Lag= 1.1 min
Discarded = 0.00 cfs @ 7.26 hrs, Volume= 0.007 af
Primary = 0.21 cfs @ 12.02 hrs, Volume= 0.009 af
Routed to Pond 357 : Forebay G (162.5, 167.5)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.24' @ 12.02 hrs Surf.Area= 155 sf Storage= 66 cf

Plug-Flow detention time= 63.9 min calculated for 0.016 af (100% of inflow)
Center-of-Mass det. time= 63.9 min (798.8 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	998.50'	26 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 78 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	42 cf	**6.00'D x 1.50'H Pipe Storage**-Impervious
		78 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
998.50	155	0	0
999.00	155	78	78

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	998.50'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 7.26 hrs HW=998.52' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.21 cfs @ 12.02 hrs HW=1,000.24' TW=166.09' (Dynamic Tailwater)
↑—**2=Dome Grate** (Orifice Controls 0.21 cfs @ 2.38 fps)

Summary for Pond 356.6: Drywell D (1.02 in/hr) (2' Deep)

Inflow Area = 0.172 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 1.75 cfs @ 12.00 hrs, Volume= 0.118 af
Outflow = 1.73 cfs @ 12.00 hrs, Volume= 0.118 af, Atten= 1%, Lag= 0.3 min
Discarded = 0.02 cfs @ 6.33 hrs, Volume= 0.047 af
Primary = 1.71 cfs @ 12.00 hrs, Volume= 0.072 af
Routed to Pond 357 : Forebay G (162.5, 167.5)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.07' @ 12.00 hrs Surf.Area= 840 sf Storage= 596 cf

Plug-Flow detention time= 114.1 min calculated for 0.118 af (100% of inflow)
Center-of-Mass det. time= 114.1 min (849.0 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	18 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 56 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		29 cf	x 30.00 = 858 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	28	0	0
999.00	28	56	56

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate X 30.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.02 cfs @ 6.33 hrs HW=997.04' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.02 cfs)

Primary OutFlow Max=1.69 cfs @ 12.00 hrs HW=1,000.06' TW=166.06' (Dynamic Tailwater)
└**2=Dome Grate** (Weir Controls 1.69 cfs @ 0.83 fps)

Summary for Pond 357: Forebay G (162.5, 167.5)

Inflow Area = 12.302 ac, 13.14% Impervious, Inflow Depth = 4.00" for 100-Year event
Inflow = 36.60 cfs @ 12.14 hrs, Volume= 4.101 af
Outflow = 36.60 cfs @ 12.14 hrs, Volume= 4.101 af, Atten= 0%, Lag= 0.0 min
Primary = 9.43 cfs @ 12.14 hrs, Volume= 2.293 af
Routed to Pond 359 : WQ Pond G (162, 165.75) (2.41in/hr)
Secondary = 27.17 cfs @ 12.14 hrs, Volume= 1.808 af
Routed to Pond 362 : QP Pond G (161, 165.75) (2.41 in/hr)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 166.20' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	165.50'	**5.0' long x 0.5' breadth WQ Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Secondary	165.75'	**30.0' long x 0.5' breadth QP Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Primary OutFlow Max=9.43 cfs @ 12.14 hrs HW=166.20' TW=163.49' (Dynamic Tailwater)
└**1=WQ Weir** (Weir Controls 9.43 cfs @ 2.68 fps)

Secondary OutFlow Max=27.16 cfs @ 12.14 hrs HW=166.20' TW=162.63' (Dynamic Tailwater)
└**2=QP Weir** (Weir Controls 27.16 cfs @ 2.00 fps)

Summary for Pond 359: WQ Pond G (162, 165.75) (2.41in/hr)

Inflow Area = 12.438 ac, 13.00% Impervious, Inflow Depth = 2.27" for 100-Year event
Inflow = 9.85 cfs @ 12.13 hrs, Volume= 2.356 af
Outflow = 9.68 cfs @ 12.17 hrs, Volume= 2.356 af, Atten= 2%, Lag= 2.1 min
Discarded = 0.24 cfs @ 13.46 hrs, Volume= 0.312 af
Primary = 9.50 cfs @ 12.17 hrs, Volume= 2.044 af
Routed to Pond 362 : QP Pond G (161, 165.75) (2.41 in/hr)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 164.77' @ 13.46 hrs Surf.Area= 4,219 sf Storage= 8,942 cf

Plug-Flow detention time= 45.7 min calculated for 2.355 af (100% of inflow)
Center-of-Mass det. time= 45.7 min (951.2 - 905.5)

Volume	Invert	Avail.Storage	Storage Description
#1	162.00'	13,424 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
162.00	2,285	0	0
164.00	3,620	5,905	5,905
165.75	4,973	7,519	13,424

Device	Routing	Invert	Outlet Devices
#1	Discarded	162.00'	**2.410 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	163.00'	**10.0' long x 15.5' 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

Discarded OutFlow Max=0.24 cfs @ 13.46 hrs HW=164.77' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.24 cfs)

Primary OutFlow Max=9.50 cfs @ 12.17 hrs HW=163.50' TW=162.82' (Dynamic Tailwater)
2=Broad-Crested Rectangular Weir (Weir Controls 9.50 cfs @ 1.91 fps)

Summary for Pond 362: QP Pond G (161, 165.75) (2.41 in/hr)

Inflow Area = 15.979 ac, 10.12% Impervious, Inflow Depth = 3.76" for 100-Year event
Inflow = 44.59 cfs @ 12.16 hrs, Volume= 5.003 af
Outflow = 6.34 cfs @ 13.45 hrs, Volume= 5.003 af, Atten= 86%, Lag= 77.7 min
Discarded = 1.69 cfs @ 13.45 hrs, Volume= 2.704 af
Primary = 4.44 cfs @ 13.45 hrs, Volume= 2.291 af
Routed to Reach 362A : Wetland
Secondary = 0.20 cfs @ 13.45 hrs, Volume= 0.008 af
Routed to Reach 362A : Wetland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 164.77' @ 13.45 hrs Surf.Area= 30,314 sf Storage= 100,483 cf

Plug-Flow detention time= 282.7 min calculated for 5.003 af (100% of inflow)
Center-of-Mass det. time= 282.7 min (1,127.4 - 844.6)

Volume	Invert	Avail.Storage	Storage Description
#1	161.00'	131,022 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
161.00	23,056	0	0
162.00	24,896	23,976	23,976
164.00	28,743	53,639	77,615
165.75	32,294	53,407	131,022

Device	Routing	Invert	Outlet Devices
#1	Discarded	161.00'	**2.410 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Device 3	162.35'	**5.00" W x 22.00" H Vert. Orifice #1** C= 0.600 Limited to weir flow at low heads
#3	Primary	162.17'	**12.00" Round Culvert** L= 34.5' Ke= 0.500 Inlet / Outlet Invert= 162.17' / 162.00' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf
#4	Secondary	164.75'	**20.0' long x 16.0' breadth Emergency Overflow 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

Discarded OutFlow Max=1.69 cfs @ 13.45 hrs HW=164.77' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 1.69 cfs)

Primary OutFlow Max=4.44 cfs @ 13.45 hrs HW=164.77' TW=161.99' (Dynamic Tailwater)
└**3=Culvert** (Passes 4.44 cfs of 5.22 cfs potential flow)
└**2=Orifice #1** (Orifice Controls 4.44 cfs @ 5.81 fps)

Secondary OutFlow Max=0.20 cfs @ 13.45 hrs HW=164.77' TW=161.99' (Dynamic Tailwater)
└**4=Emergency Overflow Weir** (Weir Controls 0.20 cfs @ 0.42 fps)

Summary for Pond 365.2: Drywell G (1.02 in/hr) (1' Deep)

Inflow Area = 0.023 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 0.23 cfs @ 12.00 hrs, Volume= 0.016 af
Outflow = 0.22 cfs @ 12.01 hrs, Volume= 0.016 af, Atten= 4%, Lag= 0.6 min
Discarded = 0.00 cfs @ 8.22 hrs, Volume= 0.008 af
Primary = 0.22 cfs @ 12.01 hrs, Volume= 0.008 af
Routed to Reach 365A : Upland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.27' @ 12.01 hrs Surf.Area= 190 sf Storage= 68 cf

Plug-Flow detention time= 63.6 min calculated for 0.016 af (100% of inflow)
Center-of-Mass det. time= 63.6 min (798.5 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	998.00'	63 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 190 cf Overall x 33.0% Voids
#2	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		73 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
998.00	190	0	0
999.00	190	190	190

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Device	Routing	Invert	Outlet Devices
#1	Discarded	998.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 8.22 hrs HW=998.03' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.22 cfs @ 12.01 hrs HW=1,000.27' TW=370.14' (Dynamic Tailwater)
↑—**2=Dome Grate** (Orifice Controls 0.22 cfs @ 2.51 fps)

Summary for Pond 365.4: Drywell F (1.02 in/hr) (2' Deep)

Inflow Area = 0.161 ac,100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
Inflow = 1.64 cfs @ 12.00 hrs, Volume= 0.111 af
Outflow = 1.57 cfs @ 12.01 hrs, Volume= 0.111 af, Atten= 4%, Lag= 0.6 min
Discarded = 0.02 cfs @ 6.49 hrs, Volume= 0.045 af
Primary = 1.55 cfs @ 12.01 hrs, Volume= 0.066 af
Routed to Reach 365C : Wetland

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs
Peak Elev= 1,000.28' @ 12.01 hrs Surf.Area= 812 sf Storage= 575 cf

Plug-Flow detention time= 115.5 min calculated for 0.111 af (100% of inflow)
Center-of-Mass det. time= 115.5 min (850.4 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,000.00'	10 cf	**Above Drywell (Prismatic)**Listed below (Recalc) -Impervious
#2	997.00'	77 cf	**Drywell Storage (Prismatic)**Listed below (Recalc) 232 cf Overall x 33.0% Voids
#3	999.00'	0 cf	**0.33'D x 1.50'H Pipe Storage**-Impervious
		87 cf	x 7.00 = 607 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	20	0	0
1,000.50	20	10	10

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	116	0	0
999.00	116	232	232

Device	Routing	Invert	Outlet Devices
#1	Discarded	997.00'	**1.020 in/hr Exfiltration over Surface area** Phase-In= 0.01'
#2	Primary	1,000.00'	**4.00" Horiz. Dome Orifice X 7.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.02 cfs @ 6.49 hrs HW=997.04' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.02 cfs)

Primary OutFlow Max=1.55 cfs @ 12.01 hrs HW=1,000.28' TW=298.84' (Dynamic Tailwater)
2=Dome Orifice (Orifice Controls 1.55 cfs @ 2.53 fps)

Summary for Link 369: DP-3 Central Wetland

Inflow Area = 239.106 ac, 3.24% Impervious, Inflow Depth = 3.25" for 100-Year event
Inflow = 364.52 cfs @ 12.81 hrs, Volume= 64.697 af
Primary = 364.52 cfs @ 12.81 hrs, Volume= 64.697 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-100.00 hrs, dt= 0.01 hrs

A3.4.4.5 HydroCAD 100-Year Emergency Outlet Calculations

Time span=0.00-100.00 hrs, dt=0.01 hrs, 10001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Pond 100.2: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=21 cf Inflow=0.11 cfs 0.008 af
Discarded=0.00 cfs 0.002 af Primary=0.11 cfs 0.006 af Outflow=0.11 cfs 0.008 af

Pond 101: 2 x 24" Pipe Peak Elev=229.77' Inflow=29.48 cfs 2.612 af
24.00" Round Culvert x 2.00 n=0.013 L=86.3' S=0.0053 '/' Outflow=29.48 cfs 2.612 af

Pond 103.2: Drywell A (1.02 in/hr) (2' Deep) Peak Elev=1,000.28' Storage=44 cf Inflow=0.23 cfs 0.016 af
Discarded=0.00 cfs 0.003 af Primary=0.22 cfs 0.012 af Outflow=0.22 cfs 0.016 af

Pond 103.4: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=41 cf Inflow=0.23 cfs 0.016 af
Discarded=0.00 cfs 0.003 af Primary=0.23 cfs 0.012 af Outflow=0.23 cfs 0.016 af

Pond 105: Forebay A (219.5, 224.6) Peak Elev=224.12' Inflow=37.78 cfs 3.438 af
Outflow=37.78 cfs 3.438 af

Pond 108: WQ Pond A (219.5, 224.50)(1.02 in/hr) Peak Elev=224.04' Storage=9,539 cf Inflow=39.05 cfs 3.569 af
Discarded=0.08 cfs 0.269 af Primary=31.33 cfs 3.288 af Outflow=31.39 cfs 3.557 af

Pond 111: QP Pond A (220, 224.5)(1.02in/hr) Peak Elev=224.04' Storage=45,915 cf Inflow=35.23 cfs 3.715 af
Discarded=0.33 cfs 1.258 af Secondary=26.94 cfs 2.458 af Outflow=27.27 cfs 3.715 af

Pond 114.2: Drywell B (1.02 in/hr) (1' Deep) Peak Elev=1,000.28' Storage=37 cf Inflow=0.23 cfs 0.016 af
Discarded=0.00 cfs 0.005 af Primary=0.22 cfs 0.011 af Outflow=0.22 cfs 0.016 af

Pond 114.4: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=124 cf Inflow=0.70 cfs 0.047 af
Discarded=0.00 cfs 0.010 af Primary=0.69 cfs 0.037 af Outflow=0.69 cfs 0.047 af

Pond 116.1: Drywell A (1.02 in/hr) (2' Deep) Peak Elev=1,000.28' Storage=88 cf Inflow=0.47 cfs 0.032 af
Discarded=0.00 cfs 0.007 af Primary=0.45 cfs 0.025 af Outflow=0.45 cfs 0.032 af

Pond 116.3: Drywell B (1.02 in/hr) (1' Deep) Peak Elev=1,000.28' Storage=74 cf Inflow=0.47 cfs 0.032 af
Discarded=0.00 cfs 0.009 af Primary=0.44 cfs 0.022 af Outflow=0.45 cfs 0.032 af

Pond 116.5: Drywell C (1.02 in/hr) (0.5' Deep) Peak Elev=1,000.24' Storage=131 cf Inflow=0.47 cfs 0.032 af
Discarded=0.01 cfs 0.014 af Primary=0.42 cfs 0.018 af Outflow=0.42 cfs 0.032 af

Pond 116.7: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=558 cf Inflow=3.16 cfs 0.213 af
Discarded=0.02 cfs 0.045 af Primary=3.10 cfs 0.168 af Outflow=3.12 cfs 0.213 af

Pond 116.9: Drywell E (1.02 in/hr) (1' Deep) Peak Elev=1,000.10' Storage=34 cf Inflow=0.23 cfs 0.016 af
Discarded=0.00 cfs 0.005 af Primary=0.23 cfs 0.011 af Outflow=0.23 cfs 0.016 af

Pond 201: 12" Pipe Peak Elev=165.72' Inflow=0.73 cfs 0.052 af
12.00" Round Culvert n=0.012 L=64.8' S=0.0049 '/' Outflow=0.73 cfs 0.052 af

Pond 203.2: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=41 cf Inflow=0.23 cfs 0.016 af
Discarded=0.00 cfs 0.003 af Primary=0.23 cfs 0.012 af Outflow=0.23 cfs 0.016 af

Pond 204: Forebay B (162.5, 166.25) Peak Elev=165.68' Inflow=16.81 cfs 1.392 af
Primary=1.63 cfs 0.772 af Secondary=15.17 cfs 0.619 af Outflow=16.81 cfs 1.392 af

Pond 206: WQ Pond B (164, 165.5) (2.41 in/hr) Peak Elev=164.53' Storage=1,962 cf Inflow=2.50 cfs 0.833 af
Discarded=0.22 cfs 0.308 af Primary=2.16 cfs 0.526 af Outflow=2.38 cfs 0.833 af

Pond 209: QP Pond B (163.5, 165.5) (2.41in/hr) Peak Elev=164.27' Storage=3,004 cf Inflow=18.11 cfs 1.294 af
Discarded=0.27 cfs 0.225 af Primary=17.44 cfs 1.069 af Outflow=17.71 cfs 1.294 af

Pond 211: 12" Pipe Peak Elev=149.29' Inflow=1.21 cfs 0.086 af
12.00" Round Culvert n=0.012 L=64.1' S=0.0050 '/' Outflow=1.21 cfs 0.086 af

Pond 215: Forebay C (146, 150.5) Peak Elev=149.17' Inflow=2.77 cfs 0.201 af
Outflow=2.77 cfs 0.201 af

Pond 218: WQ Pond C (147.5, 150.5) (8.27in/hr) Peak Elev=149.17' Storage=699 cf Inflow=3.61 cfs 0.275 af
Discarded=0.12 cfs 0.082 af Primary=3.10 cfs 0.193 af Outflow=3.22 cfs 0.275 af

Pond 220: 12" Pipe Peak Elev=146.96' Inflow=0.81 cfs 0.057 af
12.00" Round Culvert n=0.012 L=38.9' S=0.0298 '/' Outflow=0.81 cfs 0.057 af

Pond 222: 12" Pipe Peak Elev=146.97' Inflow=0.85 cfs 0.064 af
12.00" Round Culvert n=0.012 L=17.1' S=0.0906 '/' Outflow=0.85 cfs 0.064 af

Pond 223A: Bypass Peak Elev=145.07' Inflow=1.64 cfs 0.122 af
Primary=0.69 cfs 0.069 af Secondary=0.97 cfs 0.052 af Outflow=1.64 cfs 0.122 af

Pond 223B: JF4-2-1 Peak Elev=145.04' Inflow=0.69 cfs 0.069 af
12.00" Round Culvert n=0.013 L=12.9' S=0.0388 '/' Outflow=0.69 cfs 0.069 af

Pond 224: 15" Pipe Peak Elev=145.00' Inflow=4.67 cfs 0.314 af
15.00" Round Culvert n=0.012 L=69.9' S=0.0064 '/' Outflow=4.67 cfs 0.314 af

Pond 225.2: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=413 cf Inflow=2.34 cfs 0.158 af
Discarded=0.01 cfs 0.033 af Primary=2.30 cfs 0.125 af Outflow=2.32 cfs 0.158 af

Pond 226: Existing Depression Filled in (STA Peak Elev=166.97' Storage=13,859 cf Inflow=12.43 cfs 1.359 af
Discarded=0.06 cfs 0.094 af Primary=7.28 cfs 1.265 af Outflow=7.34 cfs 1.359 af

Pond 230.2: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=21 cf Inflow=0.11 cfs 0.008 af
Discarded=0.00 cfs 0.002 af Primary=0.11 cfs 0.006 af Outflow=0.11 cfs 0.008 af

Pond 233: Existing Depression (STA 6+00) Peak Elev=164.42' Storage=52,234 cf Inflow=7.46 cfs 1.316 af
Discarded=0.12 cfs 0.670 af Primary=0.00 cfs 0.000 af Outflow=0.12 cfs 0.670 af

Pond 235: Existing Depression (STA 4+00) Peak Elev=148.88' Storage=1,343 cf Inflow=0.51 cfs 0.051 af
Discarded=0.02 cfs 0.051 af Primary=0.00 cfs 0.000 af Outflow=0.02 cfs 0.051 af

Pond 363.2: Drywell A (1.02 in/hr) (2' Deep) Peak Elev=1,000.28' Storage=88 cf Inflow=0.47 cfs 0.032 af
Discarded=0.00 cfs 0.007 af Primary=0.45 cfs 0.025 af Outflow=0.45 cfs 0.032 af

Pond 363.4: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=145 cf Inflow=0.81 cfs 0.055 af
Discarded=0.00 cfs 0.012 af Primary=0.80 cfs 0.043 af Outflow=0.81 cfs 0.055 af

Pond 364: Existing Depression (STA 19+00) Peak Elev=204.87' Storage=24,875 cf Inflow=17.14 cfs 1.946 af
Outflow=4.94 cfs 1.946 af

Pond 400.2: Drywell D (1.02 in/hr) (2' Deep) Peak Elev=1,000.10' Storage=124 cf Inflow=0.70 cfs 0.047 af
Discarded=0.00 cfs 0.010 af Primary=0.69 cfs 0.037 af Outflow=0.69 cfs 0.047 af

Pond 505: Culvert Peak Elev=141.92' Inflow=347.30 cfs 59.725 af
Primary=85.24 cfs 39.622 af Secondary=262.06 cfs 20.103 af Outflow=347.30 cfs 59.725 af