TOWNSHIP of HOPEWELL

MERCER COUNTY

201 WASHINGTON CROSSING – PENNINGTON ROAD
TITUSVILLE, NEW JERSEY 08560-1410

PROJECT / APPLICATION

BLOCK: 93

LOT: 19, 20, 45.01, 46, p/o 60

ADDRESS: 61 NURSERY RD., SCOTCH RD., NURSERY RD., NURSERY RD., 137 NURSERY RD.

PROJECT NAME: MAJOR SUBDIVISION, PRELIMINARY/FINAL AND SITE PLAN, PRELIMINARY/FINAL (VENUE AT HOPEWELL)

SWM Revised
3.31.25
Pages
3001-4000

Summary for Subcatchment 36BI: PDA-36B (impervious)

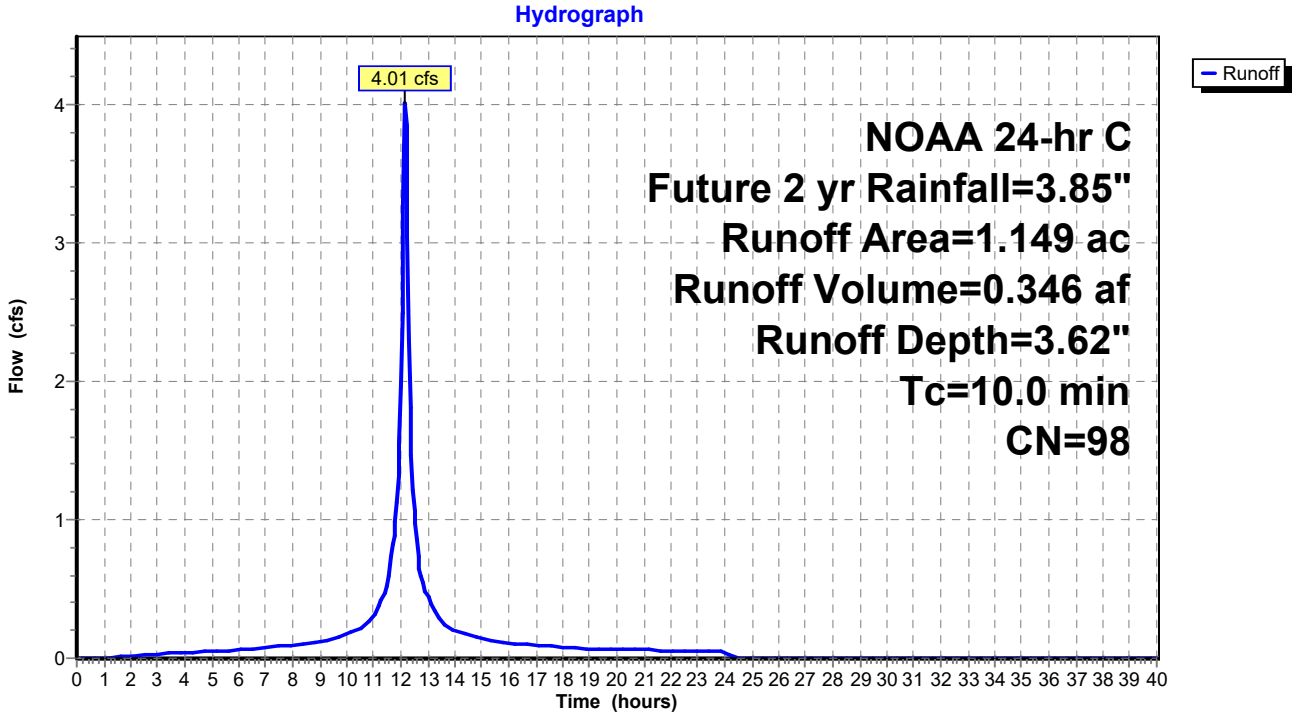
Runoff = 4.01 cfs @ 12.17 hrs, Volume= 0.346 af, Depth= 3.62"
Routed to Pond B-36B : Basin #36B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

	Area (ac)	CN	Description
*	0.501	98	Pavement, HSG C
*	0.579	98	Roof, HSG C
*	0.069	98	Concrete, HSC C
	1.149	98	Weighted Average
	1.149		100.00% Impervious Area

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

Subcatchment 36BI: PDA-36B (impervious)



Summary for Subcatchment 36BP: PDA-36B (pervious)

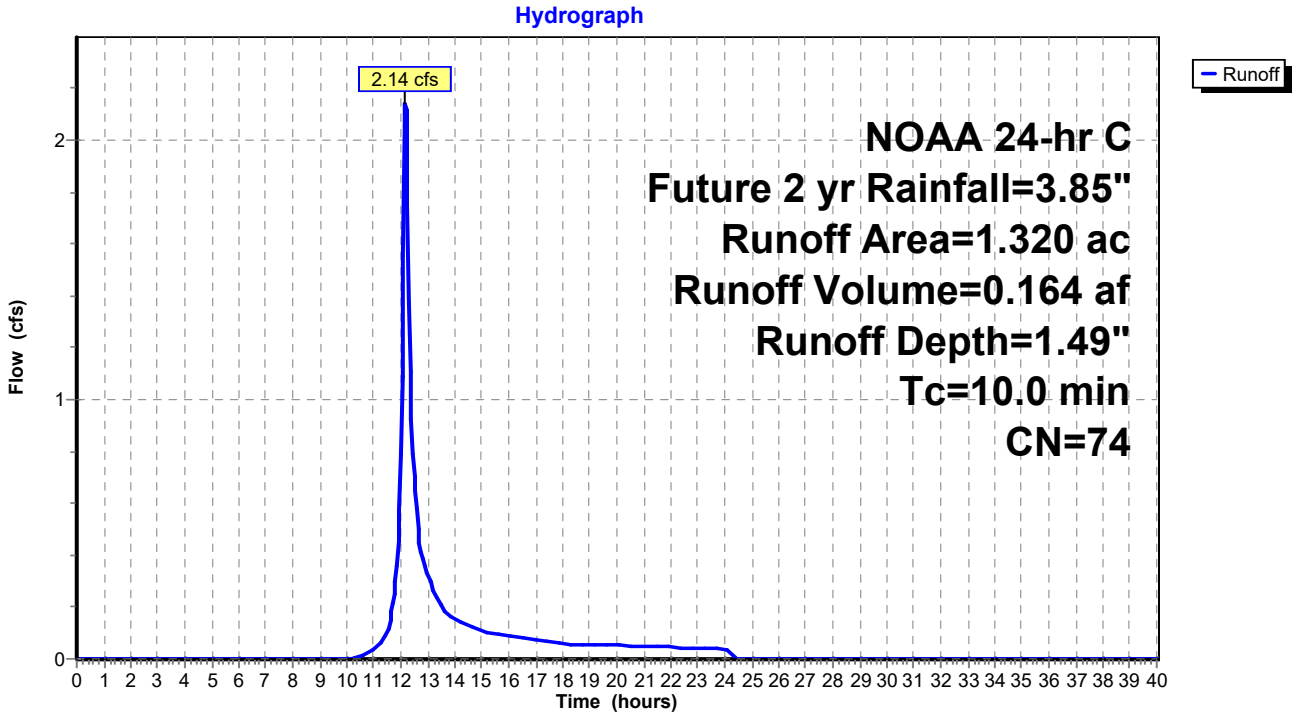
Runoff = 2.14 cfs @ 12.18 hrs, Volume= 0.164 af, Depth= 1.49"
Routed to Pond B-36B : Basin #36B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.320	74	>75% Grass cover, Good, HSG C
1.320		100.00% Pervious Area

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

Subcatchment 36BP: PDA-36B (pervious)



Summary for Subcatchment 37AI: PDA-37B (impervious)

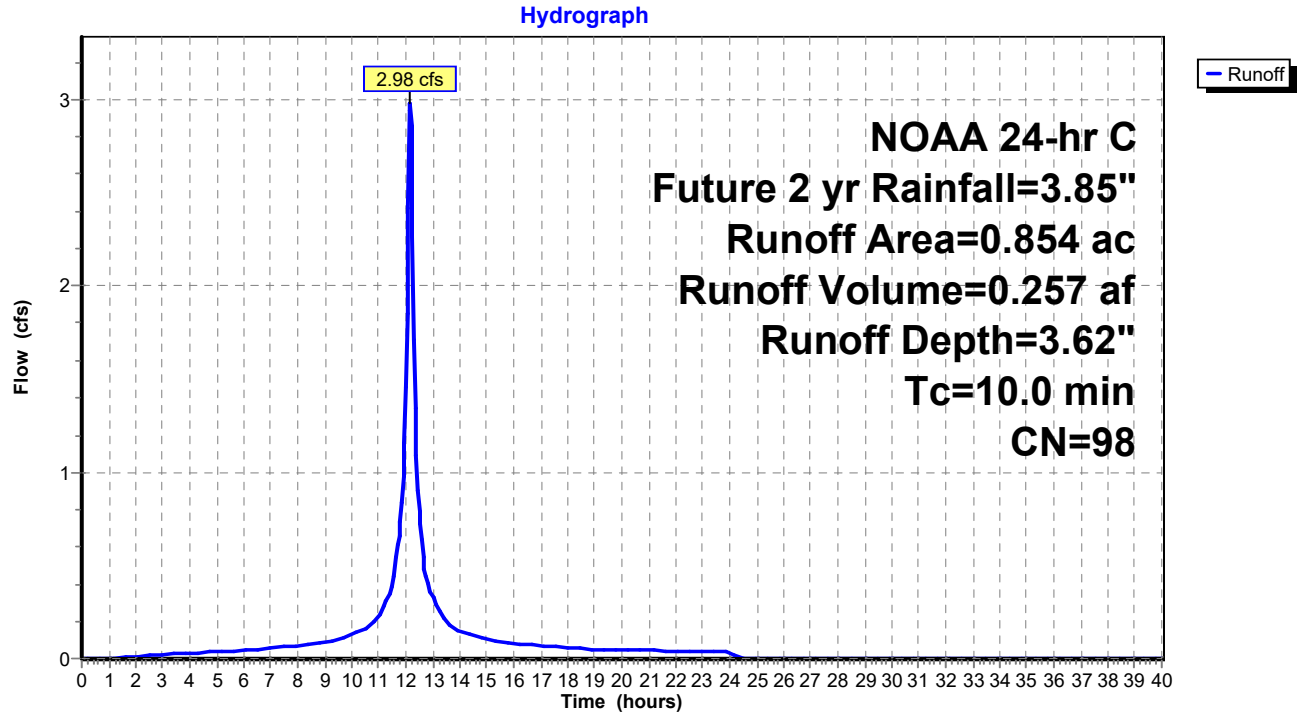
Runoff = 2.98 cfs @ 12.17 hrs, Volume= 0.257 af, Depth= 3.62"
Routed to Pond B-37A : Basin #37A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

	Area (ac)	CN	Description
*	0.673	98	Pavement, HSG C
*	0.181	98	Concrete, HSC C
	0.854	98	Weighted Average
	0.854		100.00% Impervious Area

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

Subcatchment 37AI: PDA-37B (impervious)



Summary for Subcatchment 37AP: PDA-37A (pervious)

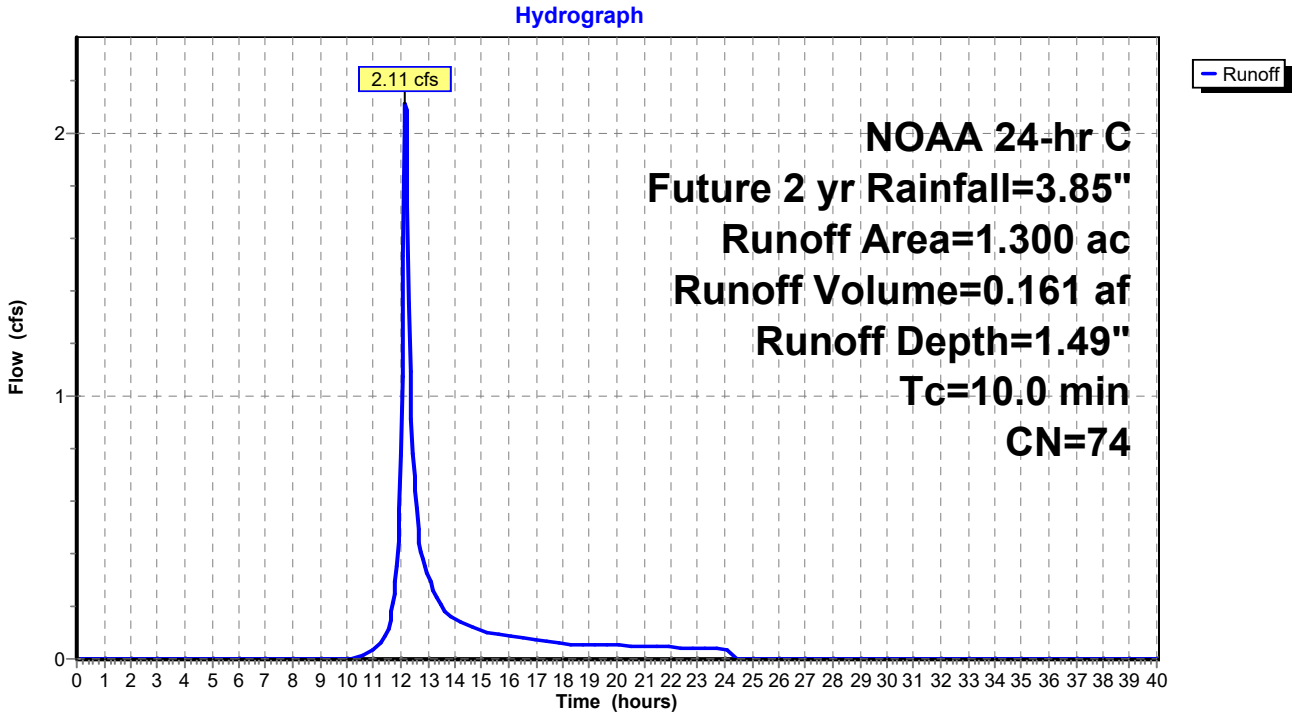
Runoff = 2.11 cfs @ 12.18 hrs, Volume= 0.161 af, Depth= 1.49"
Routed to Pond B-37A : Basin #37A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.300	74	>75% Grass cover, Good, HSG C
1.300		100.00% Pervious Area

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

Subcatchment 37AP: PDA-37A (pervious)



Summary for Subcatchment 37BI: PDA-37B (impervious)

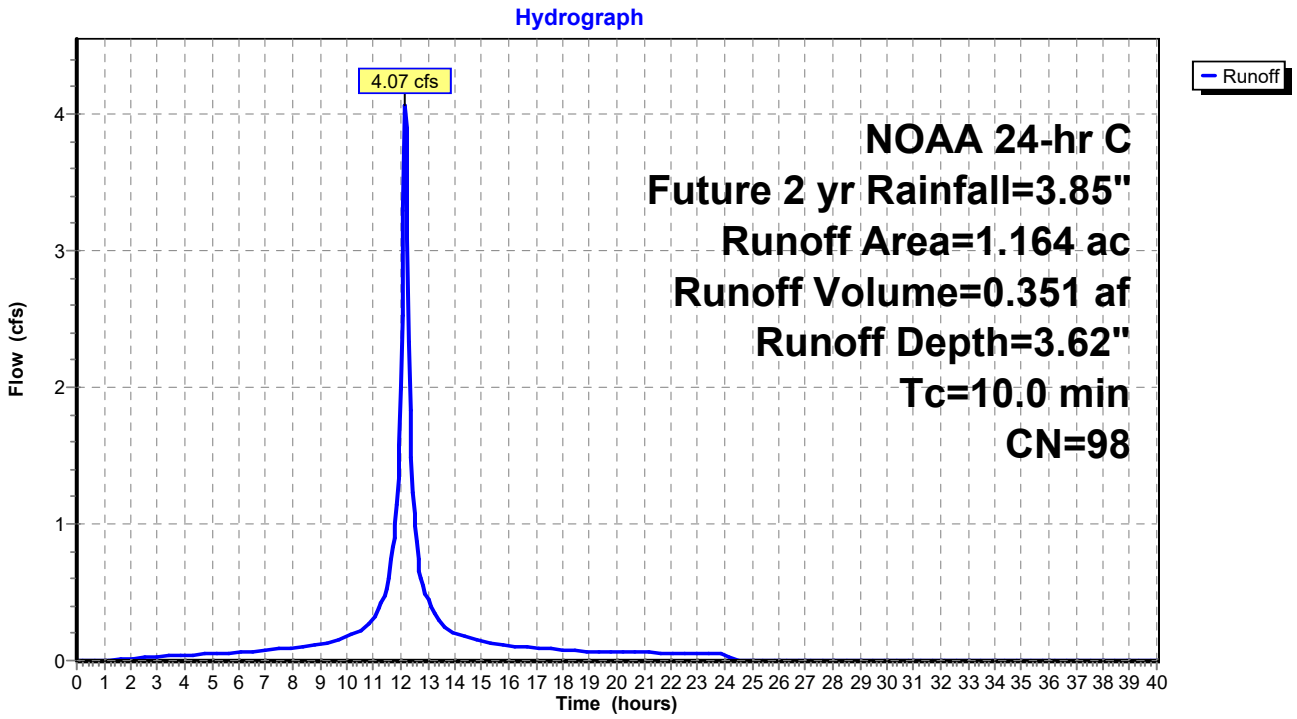
Runoff = 4.07 cfs @ 12.17 hrs, Volume= 0.351 af, Depth= 3.62"
Routed to Pond B-37B : Basin #37B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

	Area (ac)	CN	Description
*	0.806	98	Pavement, HSG C
*	0.079	98	Concrete, HSC C
	0.279	98	Unconnected roofs, HSG C
	1.164	98	Weighted Average
	1.164		100.00% Impervious Area
	0.279		23.97% Unconnected

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

Subcatchment 37BI: PDA-37B (impervious)



Summary for Subcatchment 38BP: PDA-37B (pervious)

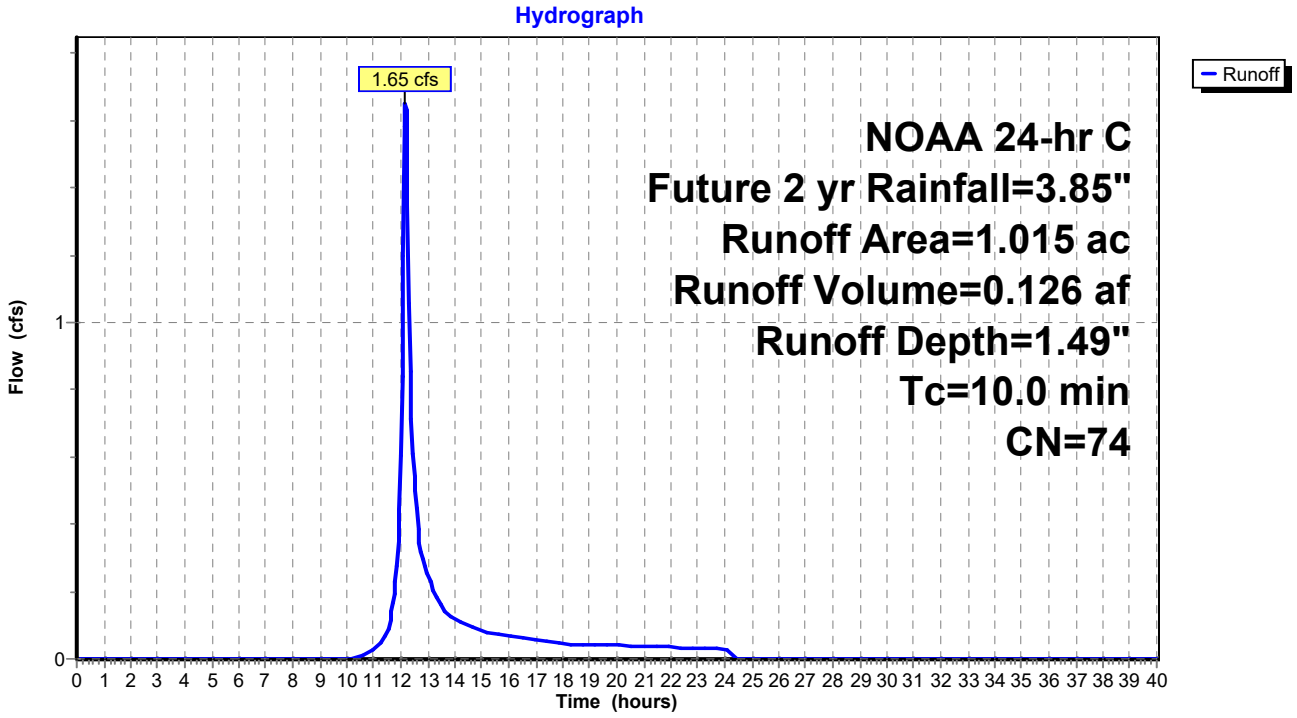
Runoff = 1.65 cfs @ 12.18 hrs, Volume= 0.126 af, Depth= 1.49"
Routed to Pond B-37B : Basin #37B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.015	74	>75% Grass cover, Good, HSG C
1.015		100.00% Pervious Area

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

Subcatchment 38BP: PDA-37B (pervious)



Summary for Subcatchment 38I: PDA-38 (impervious)

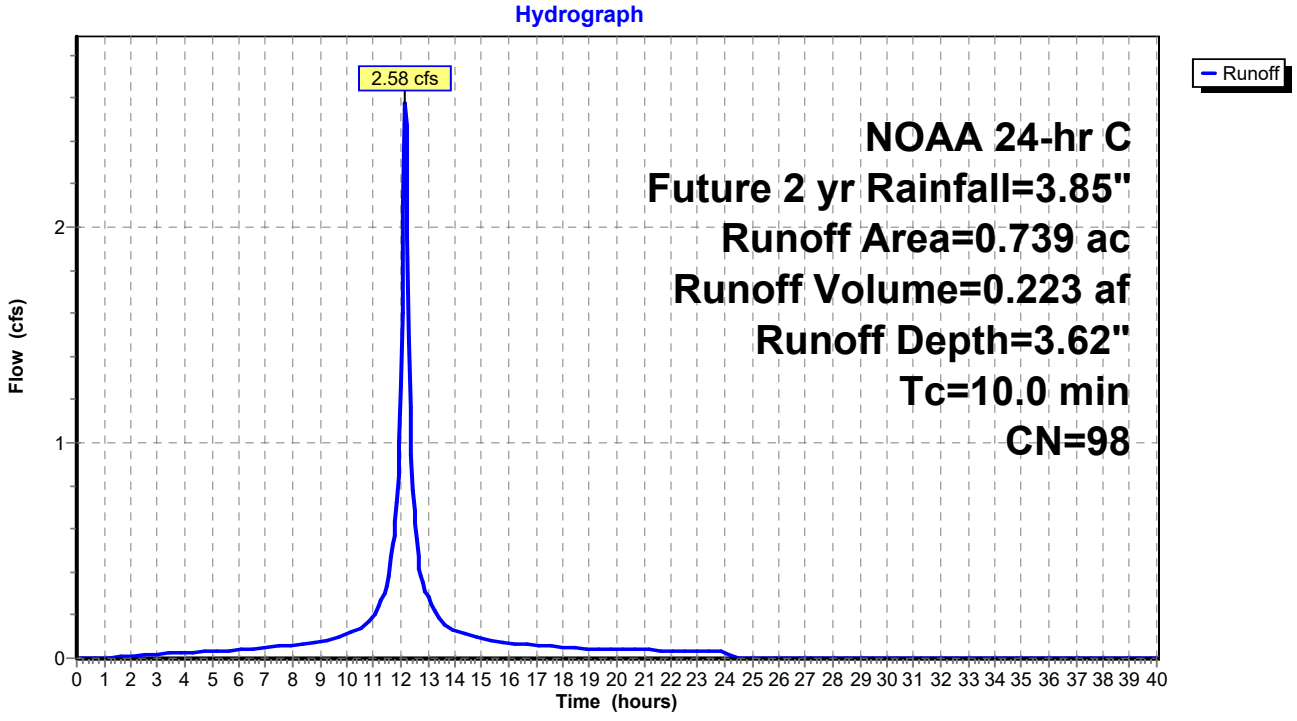
Runoff = 2.58 cfs @ 12.17 hrs, Volume= 0.223 af, Depth= 3.62"
Routed to Pond B-38 : Basin #38

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

	Area (ac)	CN	Description
*	0.568	98	Roof, HSG C
*	0.171	98	Concrete, HSC C
	0.000	98	Paved roads w/curbs & sewers, HSG C
	0.739	98	Weighted Average
	0.739		100.00% Impervious Area

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

Subcatchment 38I: PDA-38 (impervious)



Summary for Subcatchment 38P: PDA-38 (pervious)

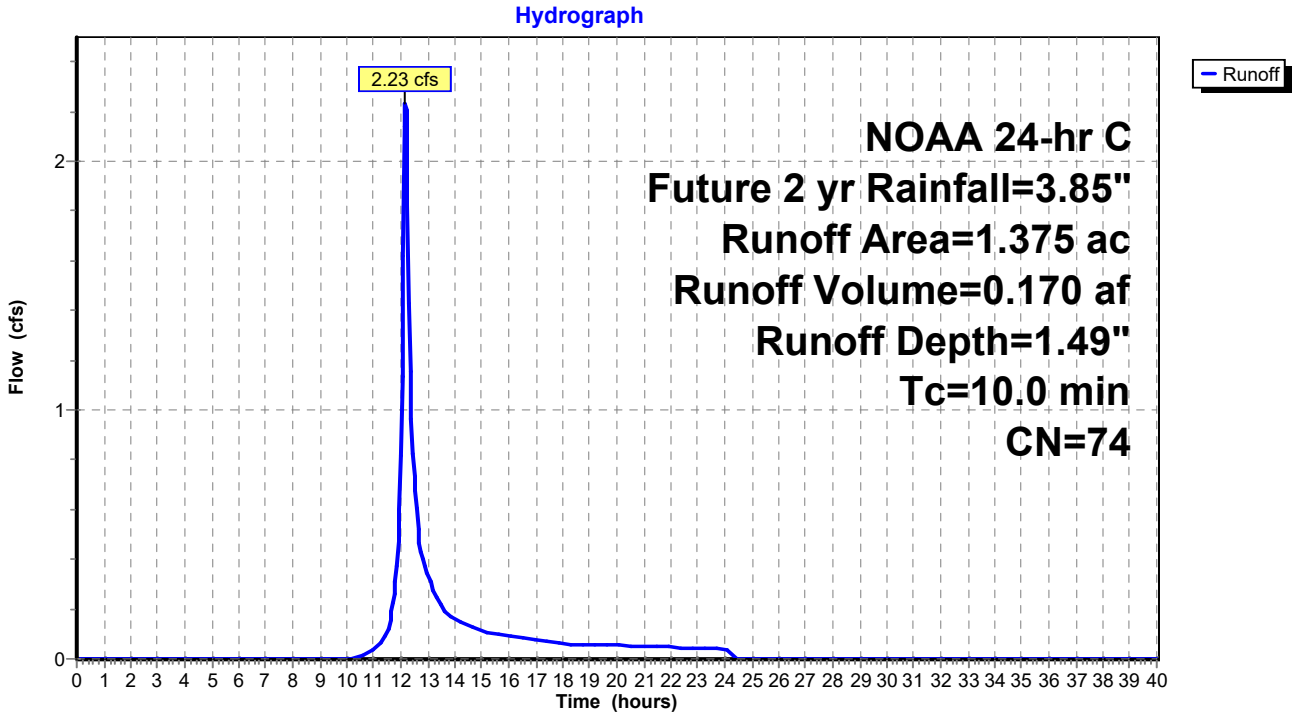
Runoff = 2.23 cfs @ 12.18 hrs, Volume= 0.170 af, Depth= 1.49"
Routed to Pond B-38 : Basin #38

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.375	74	>75% Grass cover, Good, HSG C
1.375		100.00% Pervious Area

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

Subcatchment 38P: PDA-38 (pervious)



Summary for Subcatchment 39l: PDA-39 (impervious)

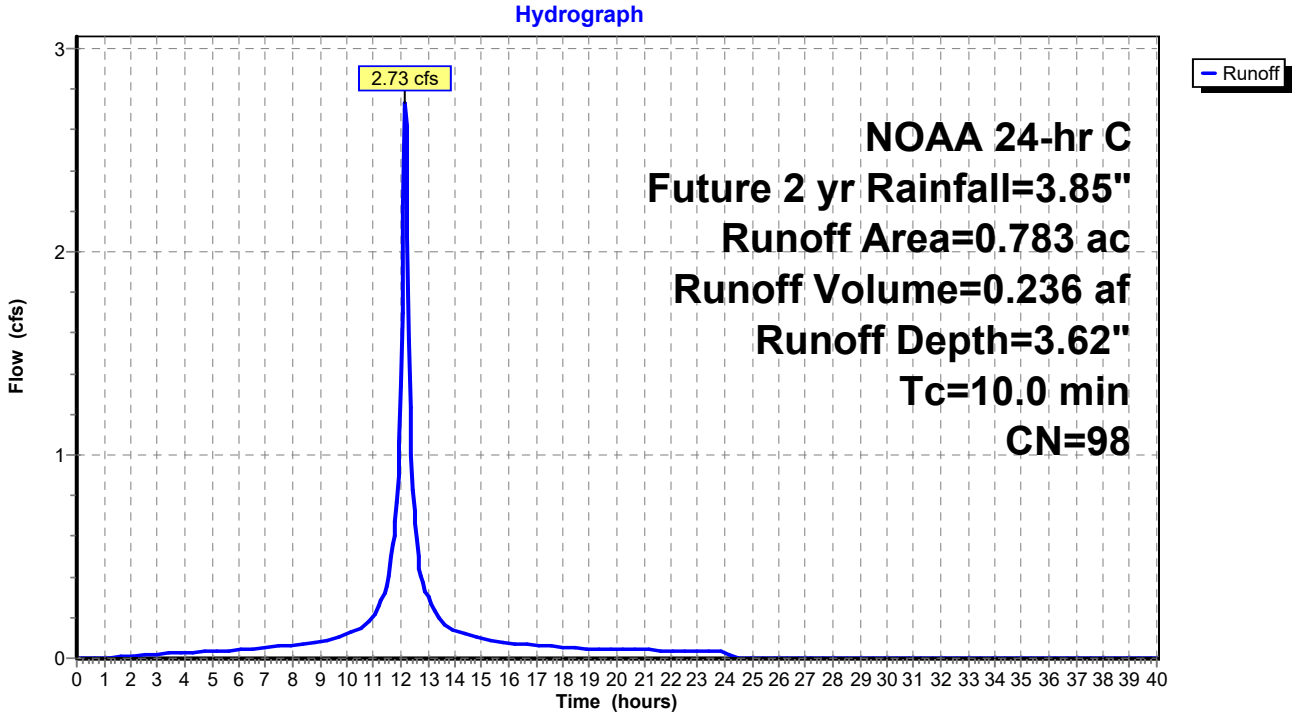
Runoff = 2.73 cfs @ 12.17 hrs, Volume= 0.236 af, Depth= 3.62"
Routed to Pond B-39 : Basin #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

	Area (ac)	CN	Description
*	0.568	98	Roof, HSG C
*	0.164	98	Concrete, HSC C
	0.051	98	Paved roads w/curbs & sewers, HSG C
	0.783	98	Weighted Average
	0.783		100.00% Impervious Area

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

Subcatchment 39l: PDA-39 (impervious)



Summary for Subcatchment 39P: PDA-39 (pervious)

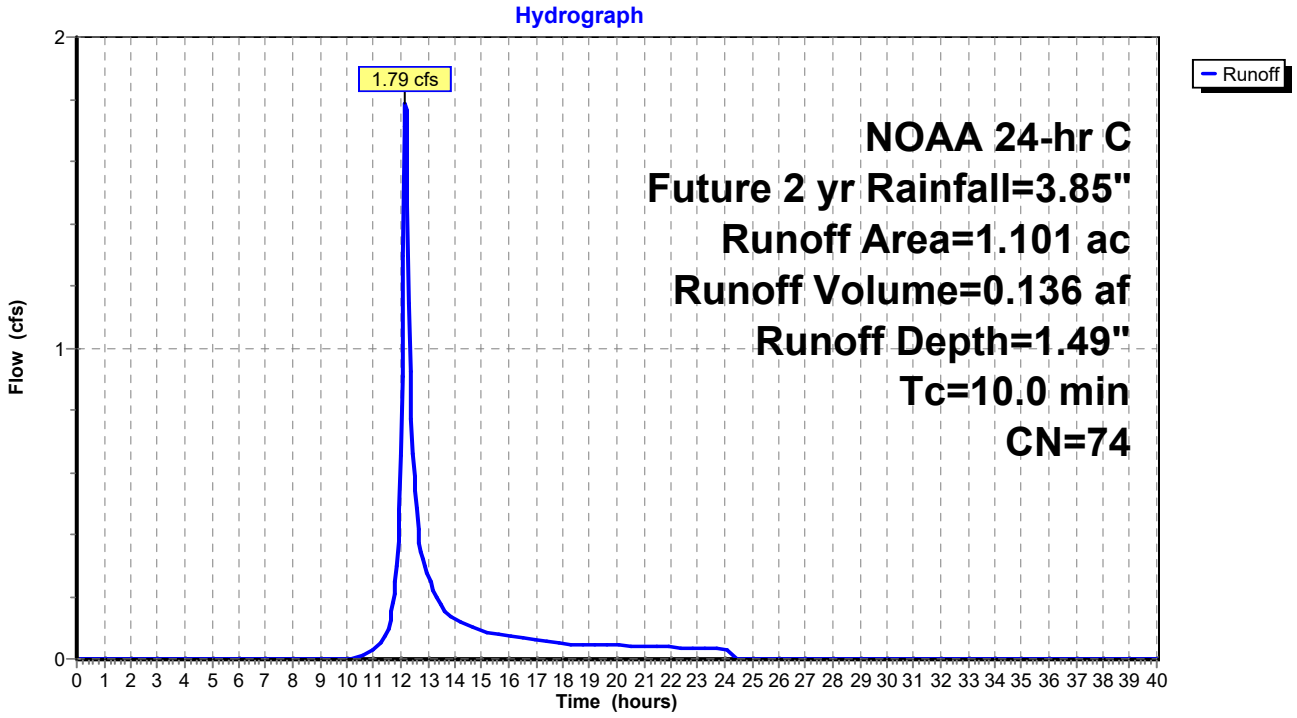
Runoff = 1.79 cfs @ 12.18 hrs, Volume= 0.136 af, Depth= 1.49"
Routed to Pond B-39 : Basin #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.101	74	>75% Grass cover, Good, HSG C
1.101		100.00% Pervious Area

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

Subcatchment 39P: PDA-39 (pervious)



Summary for Subcatchment 40l: PDA-40 (impervious)

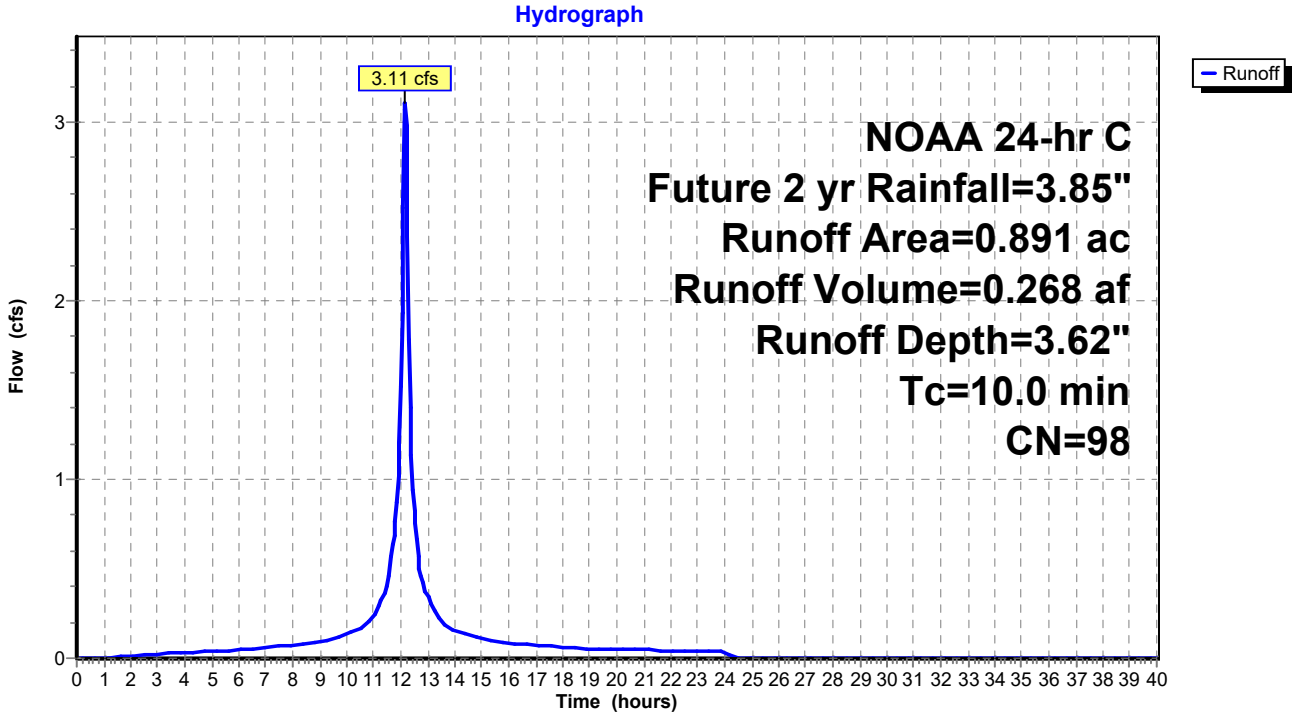
Runoff = 3.11 cfs @ 12.17 hrs, Volume= 0.268 af, Depth= 3.62"
Routed to Pond B-40 : Basin #40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

	Area (ac)	CN	Description
*	0.568	98	Roof, HSG C
*	0.179	98	Concrete, HSC C
	0.144	98	Paved roads w/curbs & sewers, HSG C
	0.891	98	Weighted Average
	0.891		100.00% Impervious Area

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

Subcatchment 40l: PDA-40 (impervious)



Summary for Subcatchment 40P: PDA-40 (pervious)

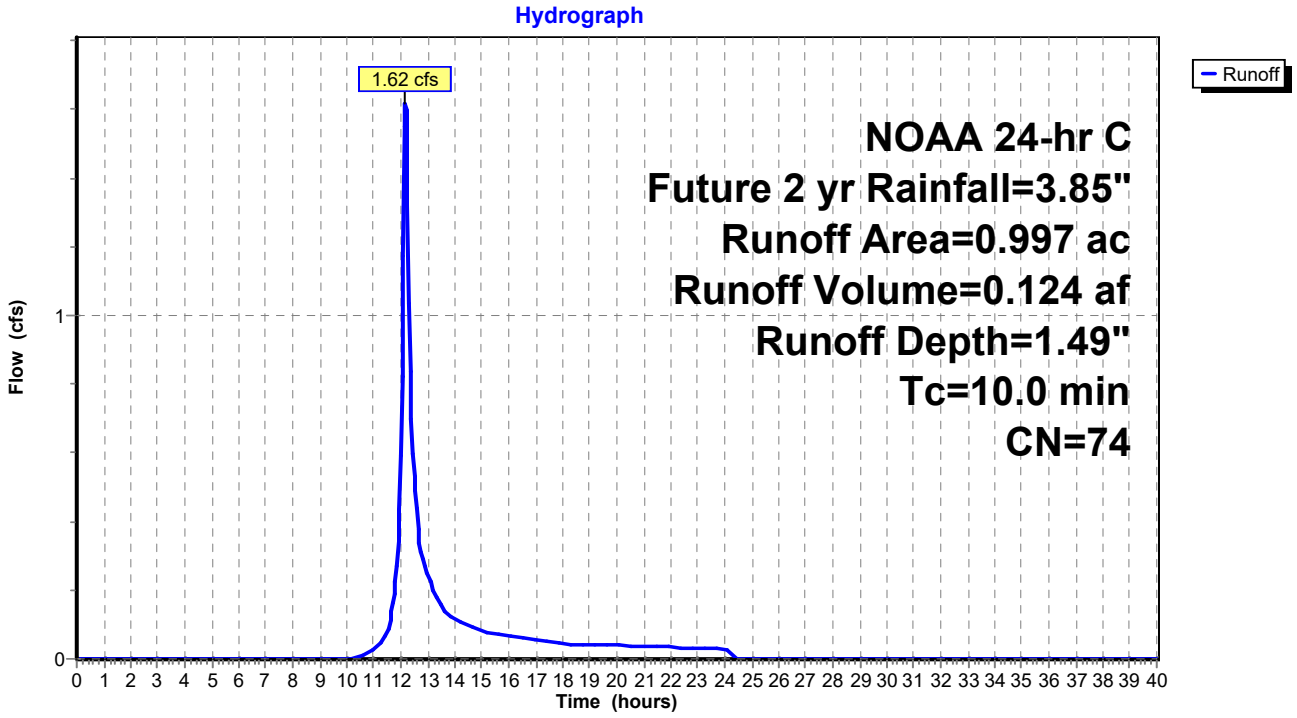
Runoff = 1.62 cfs @ 12.18 hrs, Volume= 0.124 af, Depth= 1.49"
Routed to Pond B-40 : Basin #40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.997	74	>75% Grass cover, Good, HSG C
0.997		100.00% Pervious Area

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

Subcatchment 40P: PDA-40 (pervious)



Summary for Subcatchment UPDA-3: PDA-3 (undetained)

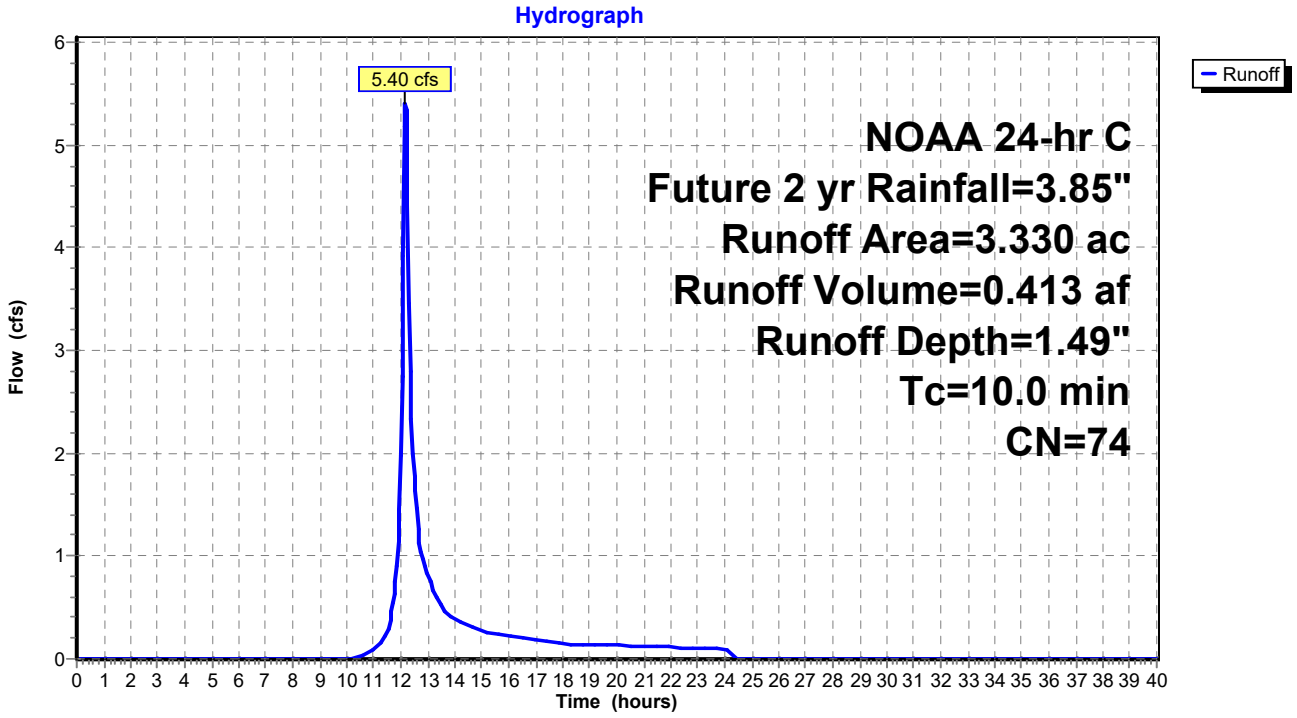
Runoff = 5.40 cfs @ 12.18 hrs, Volume= 0.413 af, Depth= 1.49"
Routed to Link PDA-3 : Proposed Drainage Area #3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
3.330	74	>75% Grass cover, Good, HSG C
3.330		100.00% Pervious Area

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

Subcatchment UPDA-3: PDA-3 (undetained)



Summary for Pond B-29: Basin #29

Inflow Area = 1.077 ac, 34.91% Impervious, Inflow Depth = 2.23" for Future 2 yr event
Inflow = 2.45 cfs @ 12.17 hrs, Volume= 0.200 af
Outflow = 1.16 cfs @ 12.36 hrs, Volume= 0.158 af, Atten= 53%, Lag= 11.2 min
Primary = 1.16 cfs @ 12.36 hrs, Volume= 0.158 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 187.19' @ 12.36 hrs Surf.Area= 6,914 sf Storage= 3,679 cf

Plug-Flow detention time= 246.5 min calculated for 0.158 af (79% of inflow)
Center-of-Mass det. time= 159.3 min (960.5 - 801.2)

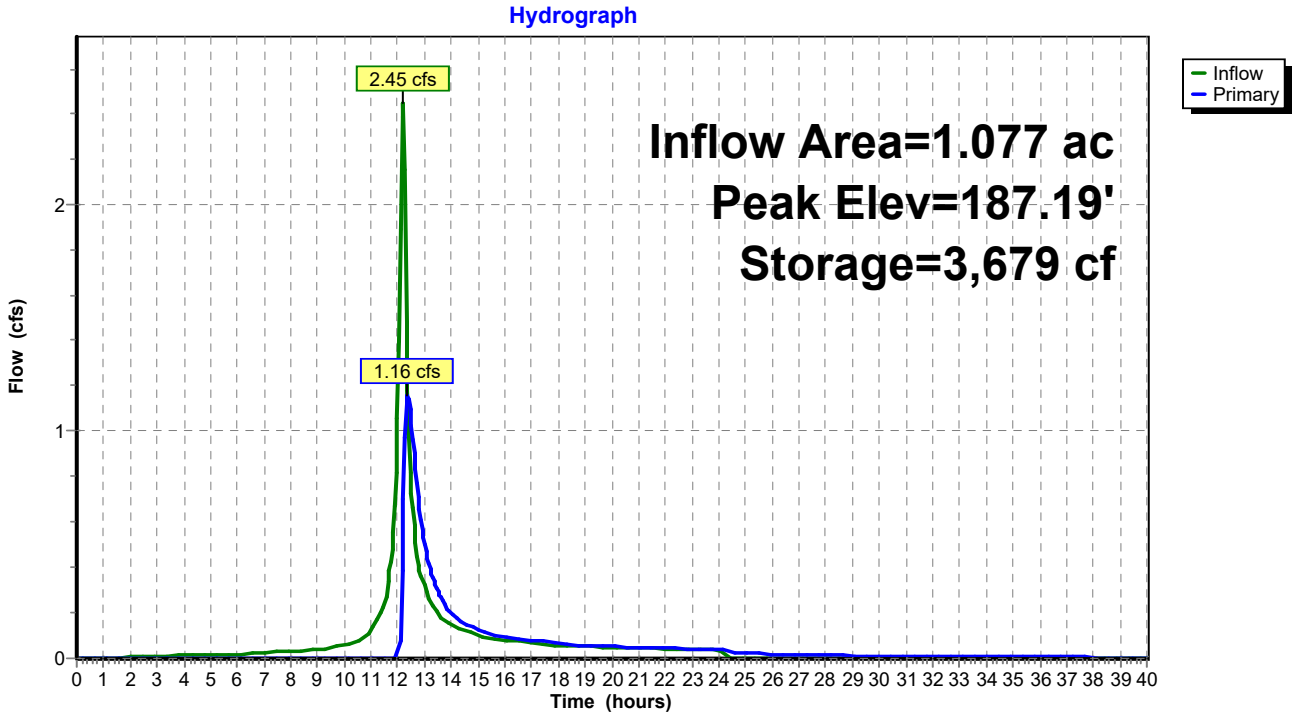
Volume	Invert	Avail.Storage	Storage Description
#1	186.30'	17,435 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
186.30	0	0	0
187.00	6,769	2,369	2,369
188.00	7,526	7,148	9,517
189.00	8,311	7,919	17,435

Device	Routing	Invert	Outlet Devices
#1	Primary	185.65'	**18.0" Round Culvert** L= 177.0' Ke= 0.500 Inlet / Outlet Invert= 185.65' / 182.00' S= 0.0206 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	186.88'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	187.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	188.17'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.15 cfs @ 12.36 hrs HW=187.19' (Free Discharge)
- **1=Culvert** (Passes 1.15 cfs of 7.57 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.07 cfs @ 2.19 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 1.08 cfs @ 1.43 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-29: Basin #29



Stage-Discharge for Pond B-29: Basin #29

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
186.30	0.00	186.82	0.00	187.34	2.65	187.86	10.14
186.31	0.00	186.83	0.00	187.35	2.76	187.87	10.31
186.32	0.00	186.84	0.00	187.36	2.88	187.88	10.35
186.33	0.00	186.85	0.00	187.37	2.99	187.89	10.39
186.34	0.00	186.86	0.00	187.38	3.11	187.90	10.42
186.35	0.00	186.87	0.00	187.39	3.23	187.91	10.46
186.36	0.00	186.88	0.00	187.40	3.35	187.92	10.49
186.37	0.00	186.89	0.00	187.41	3.47	187.93	10.52
186.38	0.00	186.90	0.00	187.42	3.59	187.94	10.56
186.39	0.00	186.91	0.00	187.43	3.72	187.95	10.59
186.40	0.00	186.92	0.00	187.44	3.84	187.96	10.63
186.41	0.00	186.93	0.00	187.45	3.97	187.97	10.66
186.42	0.00	186.94	0.01	187.46	4.10	187.98	10.70
186.43	0.00	186.95	0.01	187.47	4.23	187.99	10.73
186.44	0.00	186.96	0.01	187.48	4.36	188.00	10.76
186.45	0.00	186.97	0.01	187.49	4.49	188.01	10.80
186.46	0.00	186.98	0.02	187.50	4.63	188.02	10.83
186.47	0.00	186.99	0.02	187.51	4.76	188.03	10.86
186.48	0.00	187.00	0.02	187.52	4.90	188.04	10.90
186.49	0.00	187.01	0.04	187.53	5.03	188.05	10.93
186.50	0.00	187.02	0.07	187.54	5.17	188.06	10.96
186.51	0.00	187.03	0.10	187.55	5.31	188.07	11.00
186.52	0.00	187.04	0.14	187.56	5.45	188.08	11.03
186.53	0.00	187.05	0.19	187.57	5.59	188.09	11.06
186.54	0.00	187.06	0.24	187.58	5.74	188.10	11.09
186.55	0.00	187.07	0.29	187.59	5.88	188.11	11.13
186.56	0.00	187.08	0.35	187.60	6.03	188.12	11.16
186.57	0.00	187.09	0.40	187.61	6.17	188.13	11.19
186.58	0.00	187.10	0.47	187.62	6.32	188.14	11.22
186.59	0.00	187.11	0.53	187.63	6.47	188.15	11.26
186.60	0.00	187.12	0.60	187.64	6.62	188.16	11.29
186.61	0.00	187.13	0.67	187.65	6.77	188.17	11.32
186.62	0.00	187.14	0.75	187.66	6.92	188.18	11.47
186.63	0.00	187.15	0.82	187.67	7.07	188.19	11.72
186.64	0.00	187.16	0.90	187.68	7.22	188.20	12.02
186.65	0.00	187.17	0.98	187.69	7.38	188.21	12.39
186.66	0.00	187.18	1.06	187.70	7.53	188.22	12.79
186.67	0.00	187.19	1.15	187.71	7.69	188.23	13.23
186.68	0.00	187.20	1.23	187.72	7.84	188.24	13.72
186.69	0.00	187.21	1.32	187.73	8.00	188.25	14.23
186.70	0.00	187.22	1.41	187.74	8.16	188.26	14.78
186.71	0.00	187.23	1.51	187.75	8.32	188.27	15.35
186.72	0.00	187.24	1.60	187.76	8.48	188.28	15.96
186.73	0.00	187.25	1.70	187.77	8.64	188.29	16.59
186.74	0.00	187.26	1.80	187.78	8.81	188.30	17.25
186.75	0.00	187.27	1.90	187.79	8.97	188.31	17.93
186.76	0.00	187.28	2.00	187.80	9.13	188.32	18.64
186.77	0.00	187.29	2.10	187.81	9.30	188.33	19.37
186.78	0.00	187.30	2.21	187.82	9.46	188.34	20.12
186.79	0.00	187.31	2.32	187.83	9.63	188.35	20.89
186.80	0.00	187.32	2.42	187.84	9.80	188.36	21.69
186.81	0.00	187.33	2.54	187.85	9.97	188.37	22.51

Stage-Discharge for Pond B-29: Basin #29 (continued)

Elevation (feet)	Primary (cfs)
188.38	23.38
188.39	24.29
188.40	25.22
188.41	26.17
188.42	27.15
188.43	28.15
188.44	29.18
188.45	30.23
188.46	31.31
188.47	32.41
188.48	33.54
188.49	34.69
188.50	35.86
188.51	37.06
188.52	38.29
188.53	39.53
188.54	40.80
188.55	42.10
188.56	43.42
188.57	44.76
188.58	46.16
188.59	47.58
188.60	49.03
188.61	50.50
188.62	52.00
188.63	53.52
188.64	55.07
188.65	56.65
188.66	58.25
188.67	59.88
188.68	61.54
188.69	63.22
188.70	64.93
188.71	66.67
188.72	68.43
188.73	70.22
188.74	72.04
188.75	73.88
188.76	75.75
188.77	77.65
188.78	79.30
188.79	80.97
188.80	82.65
188.81	84.35
188.82	86.06
188.83	87.78
188.84	89.51
188.85	91.26
188.86	93.02
188.87	94.79
188.88	96.58
188.89	98.37
188.90	100.19
188.91	102.01
188.92	103.84
188.93	105.69
188.94	107.55
188.95	109.42
188.96	111.31
188.97	113.21
188.98	115.15
188.99	117.11
189.00	**119.08**

Stage-Area-Storage for Pond B-29: Basin #29

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.30	0	0	186.82	5,028	1,307
186.31	97	0	186.83	5,125	1,358
186.32	193	2	186.84	5,222	1,410
186.33	290	4	186.85	5,319	1,463
186.34	387	8	186.86	5,415	1,516
186.35	484	12	186.87	5,512	1,571
186.36	580	17	186.88	5,609	1,626
186.37	677	24	186.89	5,705	1,683
186.38	774	31	186.90	5,802	1,741
186.39	870	39	186.91	5,899	1,799
186.40	967	48	186.92	5,995	1,859
186.41	1,064	59	186.93	6,092	1,919
186.42	1,160	70	186.94	6,189	1,980
186.43	1,257	82	186.95	6,286	2,043
186.44	1,354	95	186.96	6,382	2,106
186.45	1,451	109	186.97	6,479	2,170
186.46	1,547	124	186.98	6,576	2,236
186.47	1,644	140	186.99	6,672	2,302
186.48	1,741	157	187.00	6,769	2,369
186.49	1,837	175	187.01	6,777	2,437
186.50	1,934	193	187.02	6,784	2,505
186.51	2,031	213	187.03	6,792	2,573
186.52	2,127	234	187.04	6,799	2,641
186.53	2,224	256	187.05	6,807	2,709
186.54	2,321	278	187.06	6,814	2,777
186.55	2,418	302	187.07	6,822	2,845
186.56	2,514	327	187.08	6,830	2,913
186.57	2,611	352	187.09	6,837	2,981
186.58	2,708	379	187.10	6,845	3,050
186.59	2,804	407	187.11	6,852	3,118
186.60	2,901	435	187.12	6,860	3,187
186.61	2,998	465	187.13	6,867	3,256
186.62	3,094	495	187.14	6,875	3,324
186.63	3,191	527	187.15	6,883	3,393
186.64	3,288	559	187.16	6,890	3,462
186.65	3,385	592	187.17	6,898	3,531
186.66	3,481	627	187.18	6,905	3,600
186.67	3,578	662	187.19	6,913	3,669
186.68	3,675	698	187.20	6,920	3,738
186.69	3,771	735	187.21	6,928	3,807
186.70	3,868	774	187.22	6,936	3,877
186.71	3,965	813	187.23	6,943	3,946
186.72	4,061	853	187.24	6,951	4,016
186.73	4,158	894	187.25	6,958	4,085
186.74	4,255	936	187.26	6,966	4,155
186.75	4,351	979	187.27	6,973	4,224
186.76	4,448	1,023	187.28	6,981	4,294
186.77	4,545	1,068	187.29	6,989	4,364
186.78	4,642	1,114	187.30	6,996	4,434
186.79	4,738	1,161	187.31	7,004	4,504
186.80	4,835	1,209	187.32	7,011	4,574
186.81	4,932	1,258	187.33	7,019	4,644

Stage-Area-Storage for Pond B-29: Basin #29 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.34	7,026	4,714	187.86	7,420	8,470
187.35	7,034	4,785	187.87	7,428	8,545
187.36	7,042	4,855	187.88	7,435	8,619
187.37	7,049	4,925	187.89	7,443	8,693
187.38	7,057	4,996	187.90	7,450	8,768
187.39	7,064	5,067	187.91	7,458	8,842
187.40	7,072	5,137	187.92	7,465	8,917
187.41	7,079	5,208	187.93	7,473	8,992
187.42	7,087	5,279	187.94	7,481	9,066
187.43	7,095	5,350	187.95	7,488	9,141
187.44	7,102	5,421	187.96	7,496	9,216
187.45	7,110	5,492	187.97	7,503	9,291
187.46	7,117	5,563	187.98	7,511	9,366
187.47	7,125	5,634	187.99	7,518	9,441
187.48	7,132	5,705	188.00	7,526	9,517
187.49	7,140	5,777	188.01	7,534	9,592
187.50	7,148	5,848	188.02	7,542	9,667
187.51	7,155	5,920	188.03	7,550	9,743
187.52	7,163	5,991	188.04	7,557	9,818
187.53	7,170	6,063	188.05	7,565	9,894
187.54	7,178	6,135	188.06	7,573	9,970
187.55	7,185	6,207	188.07	7,581	10,045
187.56	7,193	6,278	188.08	7,589	10,121
187.57	7,200	6,350	188.09	7,597	10,197
187.58	7,208	6,422	188.10	7,605	10,273
187.59	7,216	6,495	188.11	7,612	10,349
187.60	7,223	6,567	188.12	7,620	10,425
187.61	7,231	6,639	188.13	7,628	10,502
187.62	7,238	6,711	188.14	7,636	10,578
187.63	7,246	6,784	188.15	7,644	10,654
187.64	7,253	6,856	188.16	7,652	10,731
187.65	7,261	6,929	188.17	7,659	10,807
187.66	7,269	7,002	188.18	7,667	10,884
187.67	7,276	7,074	188.19	7,675	10,961
187.68	7,284	7,147	188.20	7,683	11,038
187.69	7,291	7,220	188.21	7,691	11,114
187.70	7,299	7,293	188.22	7,699	11,191
187.71	7,306	7,366	188.23	7,707	11,268
187.72	7,314	7,439	188.24	7,714	11,345
187.73	7,322	7,512	188.25	7,722	11,423
187.74	7,329	7,585	188.26	7,730	11,500
187.75	7,337	7,659	188.27	7,738	11,577
187.76	7,344	7,732	188.28	7,746	11,655
187.77	7,352	7,806	188.29	7,754	11,732
187.78	7,359	7,879	188.30	7,762	11,810
187.79	7,367	7,953	188.31	7,769	11,887
187.80	7,375	8,027	188.32	7,777	11,965
187.81	7,382	8,100	188.33	7,785	12,043
187.82	7,390	8,174	188.34	7,793	12,121
187.83	7,397	8,248	188.35	7,801	12,199
187.84	7,405	8,322	188.36	7,809	12,277
187.85	7,412	8,396	188.37	7,816	12,355

Stage-Area-Storage for Pond B-29: Basin #29 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
188.38	7,824	12,433
188.39	7,832	12,511
188.40	7,840	12,590
188.41	7,848	12,668
188.42	7,856	12,747
188.43	7,864	12,825
188.44	7,871	12,904
188.45	7,879	12,983
188.46	7,887	13,062
188.47	7,895	13,141
188.48	7,903	13,220
188.49	7,911	13,299
188.50	7,919	13,378
188.51	7,926	13,457
188.52	7,934	13,536
188.53	7,942	13,616
188.54	7,950	13,695
188.55	7,958	13,775
188.56	7,966	13,854
188.57	7,973	13,934
188.58	7,981	14,014
188.59	7,989	14,094
188.60	7,997	14,174
188.61	8,005	14,254
188.62	8,013	14,334
188.63	8,021	14,414
188.64	8,028	14,494
188.65	8,036	14,574
188.66	8,044	14,655
188.67	8,052	14,735
188.68	8,060	14,816
188.69	8,068	14,896
188.70	8,076	14,977
188.71	8,083	15,058
188.72	8,091	15,139
188.73	8,099	15,220
188.74	8,107	15,301
188.75	8,115	15,382
188.76	8,123	15,463
188.77	8,130	15,544
188.78	8,138	15,626
188.79	8,146	15,707
188.80	8,154	15,789
188.81	8,162	15,870
188.82	8,170	15,952
188.83	8,178	16,034
188.84	8,185	16,115
188.85	8,193	16,197
188.86	8,201	16,279
188.87	8,209	16,361
188.88	8,217	16,443
188.89	8,225	16,526
188.90	8,233	16,608
188.91	8,240	16,690
188.92	8,248	16,773
188.93	8,256	16,855
188.94	8,264	16,938
188.95	8,272	17,021
188.96	8,280	17,103
188.97	8,287	17,186
188.98	8,295	17,269
188.99	8,303	17,352
189.00	**8,311**	**17,435**

Summary for Pond B-30: Basin #30

Inflow Area = 5.727 ac, 37.05% Impervious, Inflow Depth > 2.07" for Future 2 yr event
Inflow = 7.86 cfs @ 12.21 hrs, Volume= 0.989 af
Outflow = 0.46 cfs @ 17.91 hrs, Volume= 0.593 af, Atten= 94%, Lag= 342.5 min
Primary = 0.46 cfs @ 17.91 hrs, Volume= 0.593 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 178.06' @ 17.91 hrs Surf.Area= 13,452 sf Storage= 28,031 cf

Plug-Flow detention time= 746.0 min calculated for 0.593 af (60% of inflow)
Center-of-Mass det. time= 578.0 min (1,483.3 - 905.3)

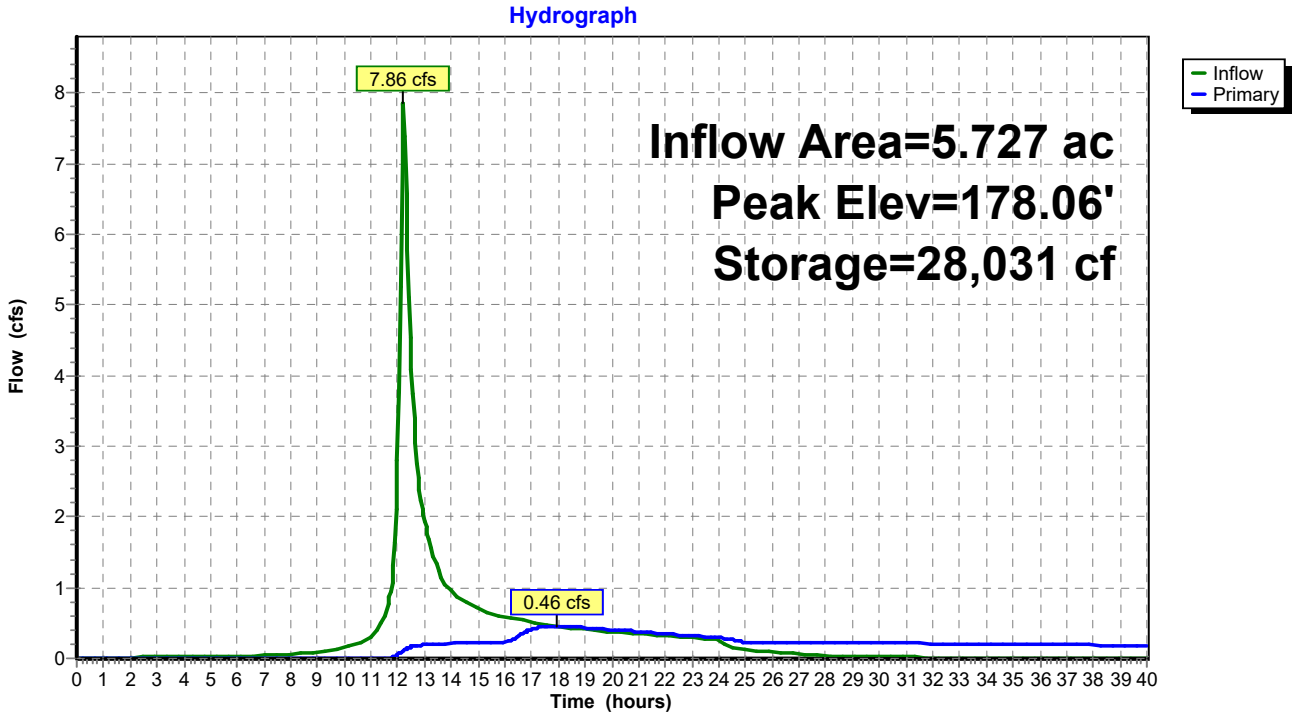
Volume	Invert	Avail.Storage	Storage Description
#1	175.30'	57,146 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
175.30	0	0	0
176.00	10,254	3,589	3,589
177.00	11,773	11,014	14,602
178.00	13,346	12,560	27,162
179.00	14,978	14,162	41,324
180.00	16,667	15,823	57,146

Device	Routing	Invert	Outlet Devices
#1	Primary	174.65'	**18.0" Round Culvert** L= 86.0' Ke= 0.500 Inlet / Outlet Invert= 174.65' / 174.00' S= 0.0076 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	175.93'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	178.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	179.50'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.45 cfs @ 17.91 hrs HW=178.06' (Free Discharge)
- **1=Culvert** (Passes 0.45 cfs of 12.96 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.23 cfs @ 6.86 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.22 cfs @ 0.83 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-30: Basin #30



Stage-Discharge for Pond B-30: Basin #30

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
175.30	0.00	175.82	0.00	176.34	0.09	176.86	0.15
175.31	0.00	175.83	0.00	176.35	0.09	176.87	0.15
175.32	0.00	175.84	0.00	176.36	0.09	176.88	0.15
175.33	0.00	175.85	0.00	176.37	0.10	176.89	0.15
175.34	0.00	175.86	0.00	176.38	0.10	176.90	0.15
175.35	0.00	175.87	0.00	176.39	0.10	176.91	0.15
175.36	0.00	175.88	0.00	176.40	0.10	176.92	0.15
175.37	0.00	175.89	0.00	176.41	0.10	176.93	0.16
175.38	0.00	175.90	0.00	176.42	0.10	176.94	0.16
175.39	0.00	175.91	0.00	176.43	0.10	176.95	0.16
175.40	0.00	175.92	0.00	176.44	0.10	176.96	0.16
175.41	0.00	175.93	0.00	176.45	0.11	176.97	0.16
175.42	0.00	175.94	0.00	176.46	0.11	176.98	0.16
175.43	0.00	175.95	0.00	176.47	0.11	176.99	0.16
175.44	0.00	175.96	0.00	176.48	0.11	177.00	0.16
175.45	0.00	175.97	0.00	176.49	0.11	177.01	0.16
175.46	0.00	175.98	0.00	176.50	0.11	177.02	0.16
175.47	0.00	175.99	0.01	176.51	0.11	177.03	0.16
175.48	0.00	176.00	0.01	176.52	0.11	177.04	0.16
175.49	0.00	176.01	0.01	176.53	0.12	177.05	0.17
175.50	0.00	176.02	0.01	176.54	0.12	177.06	0.17
175.51	0.00	176.03	0.02	176.55	0.12	177.07	0.17
175.52	0.00	176.04	0.02	176.56	0.12	177.08	0.17
175.53	0.00	176.05	0.02	176.57	0.12	177.09	0.17
175.54	0.00	176.06	0.03	176.58	0.12	177.10	0.17
175.55	0.00	176.07	0.03	176.59	0.12	177.11	0.17
175.56	0.00	176.08	0.03	176.60	0.12	177.12	0.17
175.57	0.00	176.09	0.04	176.61	0.12	177.13	0.17
175.58	0.00	176.10	0.04	176.62	0.13	177.14	0.17
175.59	0.00	176.11	0.05	176.63	0.13	177.15	0.17
175.60	0.00	176.12	0.05	176.64	0.13	177.16	0.17
175.61	0.00	176.13	0.05	176.65	0.13	177.17	0.17
175.62	0.00	176.14	0.05	176.66	0.13	177.18	0.18
175.63	0.00	176.15	0.06	176.67	0.13	177.19	0.18
175.64	0.00	176.16	0.06	176.68	0.13	177.20	0.18
175.65	0.00	176.17	0.06	176.69	0.13	177.21	0.18
175.66	0.00	176.18	0.06	176.70	0.13	177.22	0.18
175.67	0.00	176.19	0.06	176.71	0.13	177.23	0.18
175.68	0.00	176.20	0.07	176.72	0.14	177.24	0.18
175.69	0.00	176.21	0.07	176.73	0.14	177.25	0.18
175.70	0.00	176.22	0.07	176.74	0.14	177.26	0.18
175.71	0.00	176.23	0.07	176.75	0.14	177.27	0.18
175.72	0.00	176.24	0.07	176.76	0.14	177.28	0.18
175.73	0.00	176.25	0.08	176.77	0.14	177.29	0.18
175.74	0.00	176.26	0.08	176.78	0.14	177.30	0.18
175.75	0.00	176.27	0.08	176.79	0.14	177.31	0.19
175.76	0.00	176.28	0.08	176.80	0.14	177.32	0.19
175.77	0.00	176.29	0.08	176.81	0.14	177.33	0.19
175.78	0.00	176.30	0.08	176.82	0.15	177.34	0.19
175.79	0.00	176.31	0.09	176.83	0.15	177.35	0.19
175.80	0.00	176.32	0.09	176.84	0.15	177.36	0.19
175.81	0.00	176.33	0.09	176.85	0.15	177.37	0.19

Stage-Discharge for Pond B-30: Basin #30 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
177.38	0.19	177.90	0.22	178.42	3.74	178.94	11.64
177.39	0.19	177.91	0.22	178.43	3.86	178.95	11.82
177.40	0.19	177.92	0.23	178.44	3.99	178.96	11.99
177.41	0.19	177.93	0.23	178.45	4.11	178.97	12.17
177.42	0.19	177.94	0.23	178.46	4.24	178.98	12.35
177.43	0.19	177.95	0.23	178.47	4.37	178.99	12.53
177.44	0.19	177.96	0.23	178.48	4.50	179.00	12.71
177.45	0.20	177.97	0.23	178.49	4.63	179.01	12.89
177.46	0.20	177.98	0.23	178.50	4.77	179.02	13.07
177.47	0.20	177.99	0.23	178.51	4.90	179.03	13.25
177.48	0.20	178.00	0.23	178.52	5.04	179.04	13.44
177.49	0.20	178.01	0.24	178.53	5.17	179.05	13.62
177.50	0.20	178.02	0.27	178.54	5.31	179.06	13.80
177.51	0.20	178.03	0.30	178.55	5.45	179.07	13.99
177.52	0.20	178.04	0.34	178.56	5.59	179.08	14.17
177.53	0.20	178.05	0.38	178.57	5.73	179.09	14.36
177.54	0.20	178.06	0.43	178.58	5.87	179.10	14.55
177.55	0.20	178.07	0.48	178.59	6.02	179.11	14.74
177.56	0.20	178.08	0.53	178.60	6.16	179.12	14.92
177.57	0.20	178.09	0.59	178.61	6.31	179.13	15.11
177.58	0.20	178.10	0.65	178.62	6.45	179.14	15.30
177.59	0.20	178.11	0.71	178.63	6.60	179.15	15.46
177.60	0.21	178.12	0.78	178.64	6.75	179.16	15.48
177.61	0.21	178.13	0.85	178.65	6.90	179.17	15.50
177.62	0.21	178.14	0.92	178.66	7.05	179.18	15.52
177.63	0.21	178.15	0.99	178.67	7.20	179.19	15.54
177.64	0.21	178.16	1.07	178.68	7.35	179.20	15.56
177.65	0.21	178.17	1.15	178.69	7.51	179.21	15.58
177.66	0.21	178.18	1.23	178.70	7.66	179.22	15.60
177.67	0.21	178.19	1.31	178.71	7.82	179.23	15.62
177.68	0.21	178.20	1.40	178.72	7.97	179.24	15.65
177.69	0.21	178.21	1.49	178.73	8.13	179.25	15.67
177.70	0.21	178.22	1.58	178.74	8.29	179.26	15.69
177.71	0.21	178.23	1.67	178.75	8.45	179.27	15.71
177.72	0.21	178.24	1.76	178.76	8.61	179.28	15.73
177.73	0.21	178.25	1.86	178.77	8.77	179.29	15.75
177.74	0.21	178.26	1.96	178.78	8.93	179.30	15.77
177.75	0.22	178.27	2.06	178.79	9.09	179.31	15.79
177.76	0.22	178.28	2.16	178.80	9.26	179.32	15.81
177.77	0.22	178.29	2.26	178.81	9.42	179.33	15.83
177.78	0.22	178.30	2.36	178.82	9.59	179.34	15.85
177.79	0.22	178.31	2.47	178.83	9.75	179.35	15.87
177.80	0.22	178.32	2.58	178.84	9.92	179.36	15.89
177.81	0.22	178.33	2.69	178.85	10.09	179.37	15.91
177.82	0.22	178.34	2.80	178.86	10.26	179.38	15.94
177.83	0.22	178.35	2.91	178.87	10.43	179.39	15.96
177.84	0.22	178.36	3.02	178.88	10.60	179.40	15.98
177.85	0.22	178.37	3.14	178.89	10.77	179.41	16.00
177.86	0.22	178.38	3.26	178.90	10.94	179.42	16.02
177.87	0.22	178.39	3.38	178.91	11.12	179.43	16.04
177.88	0.22	178.40	3.50	178.92	11.29	179.44	16.06
177.89	0.22	178.41	3.62	178.93	11.46	179.45	16.08

Stage-Discharge for Pond B-30: Basin #30 (continued)

Elevation (feet)	Primary (cfs)
179.46	16.10
179.47	16.12
179.48	16.14
179.49	16.16
179.50	16.18
179.51	16.32
179.52	16.55
179.53	16.85
179.54	17.20
179.55	17.59
179.56	18.03
179.57	18.50
179.58	19.00
179.59	19.53
179.60	20.10
179.61	20.69
179.62	21.31
179.63	21.96
179.64	22.63
179.65	23.33
179.66	24.05
179.67	24.79
179.68	25.55
179.69	26.34
179.70	27.14
179.71	28.01
179.72	28.90
179.73	29.82
179.74	30.76
179.75	31.73
179.76	32.72
179.77	33.74
179.78	34.79
179.79	35.85
179.80	36.94
179.81	38.06
179.82	39.20
179.83	40.37
179.84	41.56
179.85	42.77
179.86	44.01
179.87	45.27
179.88	46.56
179.89	47.87
179.90	49.20
179.91	50.58
179.92	52.00
179.93	53.43
179.94	54.90
179.95	56.39
179.96	57.90
179.97	59.44
179.98	61.01
179.99	62.61
180.00	**64.23**

Stage-Area-Storage for Pond B-30: Basin #30

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
175.30	0	0	175.82	7,617	1,980
175.31	146	1	175.83	7,764	2,057
175.32	293	3	175.84	7,910	2,136
175.33	439	7	175.85	8,057	2,216
175.34	586	12	175.86	8,203	2,297
175.35	732	18	175.87	8,350	2,380
175.36	879	26	175.88	8,496	2,464
175.37	1,025	36	175.89	8,643	2,550
175.38	1,172	47	175.90	8,789	2,637
175.39	1,318	59	175.91	8,936	2,725
175.40	1,465	73	175.92	9,082	2,815
175.41	1,611	89	175.93	9,229	2,907
175.42	1,758	105	175.94	9,375	3,000
175.43	1,904	124	175.95	9,522	3,095
175.44	2,051	144	175.96	9,668	3,190
175.45	2,197	165	175.97	9,815	3,288
175.46	2,344	188	175.98	9,961	3,387
175.47	2,490	212	175.99	10,108	3,487
175.48	2,637	237	176.00	10,254	3,589
175.49	2,783	264	176.01	10,269	3,692
175.50	2,930	293	176.02	10,284	3,794
175.51	3,076	323	176.03	10,300	3,897
175.52	3,223	354	176.04	10,315	4,000
175.53	3,369	387	176.05	10,330	4,103
175.54	3,516	422	176.06	10,345	4,207
175.55	3,662	458	176.07	10,360	4,310
175.56	3,809	495	176.08	10,376	4,414
175.57	3,955	534	176.09	10,391	4,518
175.58	4,102	574	176.10	10,406	4,622
175.59	4,248	616	176.11	10,421	4,726
175.60	4,395	659	176.12	10,436	4,830
175.61	4,541	704	176.13	10,451	4,935
175.62	4,688	750	176.14	10,467	5,039
175.63	4,834	798	176.15	10,482	5,144
175.64	4,981	847	176.16	10,497	5,249
175.65	5,127	897	176.17	10,512	5,354
175.66	5,273	949	176.18	10,527	5,459
175.67	5,420	1,003	176.19	10,543	5,565
175.68	5,566	1,058	176.20	10,558	5,670
175.69	5,713	1,114	176.21	10,573	5,776
175.70	5,859	1,172	176.22	10,588	5,882
175.71	6,006	1,231	176.23	10,603	5,987
175.72	6,152	1,292	176.24	10,619	6,094
175.73	6,299	1,354	176.25	10,634	6,200
175.74	6,445	1,418	176.26	10,649	6,306
175.75	6,592	1,483	176.27	10,664	6,413
175.76	6,738	1,550	176.28	10,679	6,520
175.77	6,885	1,618	176.29	10,695	6,626
175.78	7,031	1,688	176.30	10,710	6,733
175.79	7,178	1,759	176.31	10,725	6,841
175.80	7,324	1,831	176.32	10,740	6,948
175.81	7,471	1,905	176.33	10,755	7,055

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
176.34	10,770	7,163	176.86	11,560	12,969
176.35	10,786	7,271	176.87	11,576	13,085
176.36	10,801	7,379	176.88	11,591	13,201
176.37	10,816	7,487	176.89	11,606	13,317
176.38	10,831	7,595	176.90	11,621	13,433
176.39	10,846	7,703	176.91	11,636	13,549
176.40	10,862	7,812	176.92	11,651	13,665
176.41	10,877	7,921	176.93	11,667	13,782
176.42	10,892	8,030	176.94	11,682	13,899
176.43	10,907	8,139	176.95	11,697	14,016
176.44	10,922	8,248	176.96	11,712	14,133
176.45	10,938	8,357	176.97	11,727	14,250
176.46	10,953	8,466	176.98	11,743	14,367
176.47	10,968	8,576	176.99	11,758	14,485
176.48	10,983	8,686	177.00	11,773	14,602
176.49	10,998	8,796	177.01	11,789	14,720
176.50	11,014	8,906	177.02	11,804	14,838
176.51	11,029	9,016	177.03	11,820	14,956
176.52	11,044	9,126	177.04	11,836	15,075
176.53	11,059	9,237	177.05	11,852	15,193
176.54	11,074	9,348	177.06	11,867	15,312
176.55	11,089	9,458	177.07	11,883	15,430
176.56	11,105	9,569	177.08	11,899	15,549
176.57	11,120	9,680	177.09	11,915	15,668
176.58	11,135	9,792	177.10	11,930	15,788
176.59	11,150	9,903	177.11	11,946	15,907
176.60	11,165	10,015	177.12	11,962	16,026
176.61	11,181	10,126	177.13	11,977	16,146
176.62	11,196	10,238	177.14	11,993	16,266
176.63	11,211	10,350	177.15	12,009	16,386
176.64	11,226	10,463	177.16	12,025	16,506
176.65	11,241	10,575	177.17	12,040	16,627
176.66	11,257	10,687	177.18	12,056	16,747
176.67	11,272	10,800	177.19	12,072	16,868
176.68	11,287	10,913	177.20	12,088	16,988
176.69	11,302	11,026	177.21	12,103	17,109
176.70	11,317	11,139	177.22	12,119	17,231
176.71	11,332	11,252	177.23	12,135	17,352
176.72	11,348	11,366	177.24	12,151	17,473
176.73	11,363	11,479	177.25	12,166	17,595
176.74	11,378	11,593	177.26	12,182	17,717
176.75	11,393	11,707	177.27	12,198	17,838
176.76	11,408	11,821	177.28	12,213	17,961
176.77	11,424	11,935	177.29	12,229	18,083
176.78	11,439	12,049	177.30	12,245	18,205
176.79	11,454	12,164	177.31	12,261	18,328
176.80	11,469	12,278	177.32	12,276	18,450
176.81	11,484	12,393	177.33	12,292	18,573
176.82	11,500	12,508	177.34	12,308	18,696
176.83	11,515	12,623	177.35	12,324	18,819
176.84	11,530	12,738	177.36	12,339	18,943
176.85	11,545	12,854	177.37	12,355	19,066

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
177.38	12,371	19,190	177.90	13,189	25,835
177.39	12,386	19,313	177.91	13,204	25,967
177.40	12,402	19,437	177.92	13,220	26,099
177.41	12,418	19,562	177.93	13,236	26,232
177.42	12,434	19,686	177.94	13,252	26,364
177.43	12,449	19,810	177.95	13,267	26,497
177.44	12,465	19,935	177.96	13,283	26,629
177.45	12,481	20,060	177.97	13,299	26,762
177.46	12,497	20,184	177.98	13,315	26,895
177.47	12,512	20,309	177.99	13,330	27,029
177.48	12,528	20,435	178.00	13,346	27,162
177.49	12,544	20,560	178.01	13,362	27,295
177.50	12,560	20,686	178.02	13,379	27,429
177.51	12,575	20,811	178.03	13,395	27,563
177.52	12,591	20,937	178.04	13,411	27,697
177.53	12,607	21,063	178.05	13,428	27,831
177.54	12,622	21,189	178.06	13,444	27,966
177.55	12,638	21,315	178.07	13,460	28,100
177.56	12,654	21,442	178.08	13,477	28,235
177.57	12,670	21,569	178.09	13,493	28,370
177.58	12,685	21,695	178.10	13,509	28,505
177.59	12,701	21,822	178.11	13,526	28,640
177.60	12,717	21,949	178.12	13,542	28,775
177.61	12,733	22,077	178.13	13,558	28,911
177.62	12,748	22,204	178.14	13,574	29,046
177.63	12,764	22,332	178.15	13,591	29,182
177.64	12,780	22,459	178.16	13,607	29,318
177.65	12,795	22,587	178.17	13,623	29,454
177.66	12,811	22,715	178.18	13,640	29,591
177.67	12,827	22,843	178.19	13,656	29,727
177.68	12,843	22,972	178.20	13,672	29,864
177.69	12,858	23,100	178.21	13,689	30,001
177.70	12,874	23,229	178.22	13,705	30,138
177.71	12,890	23,358	178.23	13,721	30,275
177.72	12,906	23,487	178.24	13,738	30,412
177.73	12,921	23,616	178.25	13,754	30,549
177.74	12,937	23,745	178.26	13,770	30,687
177.75	12,953	23,875	178.27	13,787	30,825
177.76	12,968	24,004	178.28	13,803	30,963
177.77	12,984	24,134	178.29	13,819	31,101
177.78	13,000	24,264	178.30	13,836	31,239
177.79	13,016	24,394	178.31	13,852	31,378
177.80	13,031	24,524	178.32	13,868	31,516
177.81	13,047	24,655	178.33	13,885	31,655
177.82	13,063	24,785	178.34	13,901	31,794
177.83	13,079	24,916	178.35	13,917	31,933
177.84	13,094	25,047	178.36	13,934	32,072
177.85	13,110	25,178	178.37	13,950	32,212
177.86	13,126	25,309	178.38	13,966	32,351
177.87	13,142	25,440	178.39	13,982	32,491
177.88	13,157	25,572	178.40	13,999	32,631
177.89	13,173	25,703	178.41	14,015	32,771

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.42	14,031	32,911	178.94	14,880	40,428
178.43	14,048	33,052	178.95	14,896	40,577
178.44	14,064	33,192	178.96	14,913	40,726
178.45	14,080	33,333	178.97	14,929	40,875
178.46	14,097	33,474	178.98	14,945	41,025
178.47	14,113	33,615	178.99	14,962	41,174
178.48	14,129	33,756	179.00	14,978	41,324
178.49	14,146	33,897	179.01	14,995	41,474
178.50	14,162	34,039	179.02	15,012	41,624
178.51	14,178	34,181	179.03	15,029	41,774
178.52	14,195	34,322	179.04	15,046	41,924
178.53	14,211	34,464	179.05	15,062	42,075
178.54	14,227	34,607	179.06	15,079	42,226
178.55	14,244	34,749	179.07	15,096	42,376
178.56	14,260	34,892	179.08	15,113	42,528
178.57	14,276	35,034	179.09	15,130	42,679
178.58	14,293	35,177	179.10	15,147	42,830
178.59	14,309	35,320	179.11	15,164	42,982
178.60	14,325	35,463	179.12	15,181	43,133
178.61	14,342	35,607	179.13	15,198	43,285
178.62	14,358	35,750	179.14	15,214	43,437
178.63	14,374	35,894	179.15	15,231	43,590
178.64	14,390	36,038	179.16	15,248	43,742
178.65	14,407	36,182	179.17	15,265	43,895
178.66	14,423	36,326	179.18	15,282	44,047
178.67	14,439	36,470	179.19	15,299	44,200
178.68	14,456	36,614	179.20	15,316	44,353
178.69	14,472	36,759	179.21	15,333	44,507
178.70	14,488	36,904	179.22	15,350	44,660
178.71	14,505	37,049	179.23	15,366	44,814
178.72	14,521	37,194	179.24	15,383	44,967
178.73	14,537	37,339	179.25	15,400	45,121
178.74	14,554	37,485	179.26	15,417	45,275
178.75	14,570	37,630	179.27	15,434	45,430
178.76	14,586	37,776	179.28	15,451	45,584
178.77	14,603	37,922	179.29	15,468	45,739
178.78	14,619	38,068	179.30	15,485	45,893
178.79	14,635	38,215	179.31	15,502	46,048
178.80	14,652	38,361	179.32	15,518	46,203
178.81	14,668	38,508	179.33	15,535	46,359
178.82	14,684	38,654	179.34	15,552	46,514
178.83	14,701	38,801	179.35	15,569	46,670
178.84	14,717	38,948	179.36	15,586	46,825
178.85	14,733	39,096	179.37	15,603	46,981
178.86	14,750	39,243	179.38	15,620	47,137
178.87	14,766	39,391	179.39	15,637	47,294
178.88	14,782	39,538	179.40	15,654	47,450
178.89	14,798	39,686	179.41	15,670	47,607
178.90	14,815	39,834	179.42	15,687	47,764
178.91	14,831	39,982	179.43	15,704	47,921
178.92	14,847	40,131	179.44	15,721	48,078
178.93	14,864	40,279	179.45	15,738	48,235

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.46	15,755	48,392
179.47	15,772	48,550
179.48	15,789	48,708
179.49	15,806	48,866
179.50	15,823	49,024
179.51	15,839	49,182
179.52	15,856	49,341
179.53	15,873	49,499
179.54	15,890	49,658
179.55	15,907	49,817
179.56	15,924	49,976
179.57	15,941	50,136
179.58	15,958	50,295
179.59	15,975	50,455
179.60	15,991	50,615
179.61	16,008	50,775
179.62	16,025	50,935
179.63	16,042	51,095
179.64	16,059	51,256
179.65	16,076	51,416
179.66	16,093	51,577
179.67	16,110	51,738
179.68	16,127	51,899
179.69	16,143	52,061
179.70	16,160	52,222
179.71	16,177	52,384
179.72	16,194	52,546
179.73	16,211	52,708
179.74	16,228	52,870
179.75	16,245	53,032
179.76	16,262	53,195
179.77	16,279	53,358
179.78	16,295	53,521
179.79	16,312	53,684
179.80	16,329	53,847
179.81	16,346	54,010
179.82	16,363	54,174
179.83	16,380	54,337
179.84	16,397	54,501
179.85	16,414	54,665
179.86	16,431	54,830
179.87	16,447	54,994
179.88	16,464	55,159
179.89	16,481	55,323
179.90	16,498	55,488
179.91	16,515	55,653
179.92	16,532	55,818
179.93	16,549	55,984
179.94	16,566	56,149
179.95	16,583	56,315
179.96	16,599	56,481
179.97	16,616	56,647
179.98	16,633	56,813
179.99	16,650	56,980
180.00	**16,667**	**57,146**

Summary for Pond B-31: Basin #31

Inflow Area = 0.923 ac, 77.68% Impervious, Inflow Depth = 3.14" for Future 2 yr event
Inflow = 2.84 cfs @ 12.17 hrs, Volume= 0.242 af
Outflow = 0.28 cfs @ 13.14 hrs, Volume= 0.227 af, Atten= 90%, Lag= 58.4 min
Primary = 0.28 cfs @ 13.14 hrs, Volume= 0.227 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 195.02' @ 13.14 hrs Surf.Area= 3,261 sf Storage= 5,910 cf

Plug-Flow detention time= 333.1 min calculated for 0.226 af (94% of inflow)
Center-of-Mass det. time= 298.3 min (1,066.3 - 768.1)

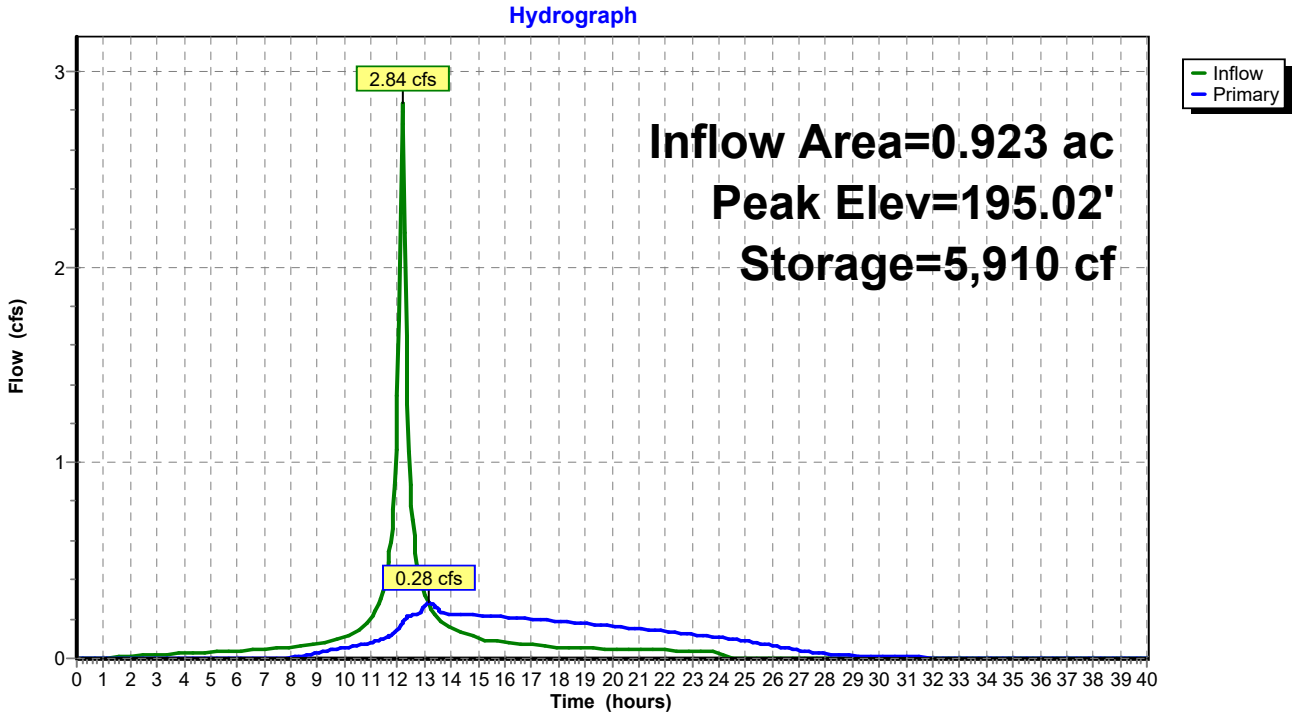
Volume	Invert	Avail.Storage	Storage Description
#1	192.30'	9,453 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.30	0	0	0
193.00	1,944	680	680
194.00	2,566	2,255	2,935
195.00	3,245	2,906	5,841
196.00	3,980	3,613	9,453

Device	Routing	Invert	Outlet Devices
#1	Primary	191.65'	**18.0" Round Culvert** L= 126.0' Ke= 0.500 Inlet / Outlet Invert= 191.65' / 188.00' S= 0.0290 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.97'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	195.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	195.50'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.27 cfs @ 13.14 hrs HW=195.02' (Free Discharge)
- **1=Culvert** (Passes 0.27 cfs of 13.78 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.23 cfs @ 6.72 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.04 cfs @ 0.48 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-31: Basin #31



Stage-Discharge for Pond B-31: Basin #31

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.30	0.00	192.82	0.00	193.34	0.08	193.86	0.15
192.31	0.00	192.83	0.00	193.35	0.09	193.87	0.15
192.32	0.00	192.84	0.00	193.36	0.09	193.88	0.15
192.33	0.00	192.85	0.00	193.37	0.09	193.89	0.15
192.34	0.00	192.86	0.00	193.38	0.09	193.90	0.15
192.35	0.00	192.87	0.00	193.39	0.09	193.91	0.15
192.36	0.00	192.88	0.00	193.40	0.09	193.92	0.15
192.37	0.00	192.89	0.00	193.41	0.10	193.93	0.15
192.38	0.00	192.90	0.00	193.42	0.10	193.94	0.15
192.39	0.00	192.91	0.00	193.43	0.10	193.95	0.15
192.40	0.00	192.92	0.00	193.44	0.10	193.96	0.15
192.41	0.00	192.93	0.00	193.45	0.10	193.97	0.16
192.42	0.00	192.94	0.00	193.46	0.10	193.98	0.16
192.43	0.00	192.95	0.00	193.47	0.10	193.99	0.16
192.44	0.00	192.96	0.00	193.48	0.10	194.00	0.16
192.45	0.00	192.97	0.00	193.49	0.11	194.01	0.16
192.46	0.00	192.98	0.00	193.50	0.11	194.02	0.16
192.47	0.00	192.99	0.00	193.51	0.11	194.03	0.16
192.48	0.00	193.00	0.00	193.52	0.11	194.04	0.16
192.49	0.00	193.01	0.00	193.53	0.11	194.05	0.16
192.50	0.00	193.02	0.00	193.54	0.11	194.06	0.16
192.51	0.00	193.03	0.01	193.55	0.11	194.07	0.16
192.52	0.00	193.04	0.01	193.56	0.11	194.08	0.16
192.53	0.00	193.05	0.01	193.57	0.12	194.09	0.17
192.54	0.00	193.06	0.01	193.58	0.12	194.10	0.17
192.55	0.00	193.07	0.02	193.59	0.12	194.11	0.17
192.56	0.00	193.08	0.02	193.60	0.12	194.12	0.17
192.57	0.00	193.09	0.02	193.61	0.12	194.13	0.17
192.58	0.00	193.10	0.03	193.62	0.12	194.14	0.17
192.59	0.00	193.11	0.03	193.63	0.12	194.15	0.17
192.60	0.00	193.12	0.03	193.64	0.12	194.16	0.17
192.61	0.00	193.13	0.04	193.65	0.12	194.17	0.17
192.62	0.00	193.14	0.04	193.66	0.13	194.18	0.17
192.63	0.00	193.15	0.05	193.67	0.13	194.19	0.17
192.64	0.00	193.16	0.05	193.68	0.13	194.20	0.17
192.65	0.00	193.17	0.05	193.69	0.13	194.21	0.17
192.66	0.00	193.18	0.05	193.70	0.13	194.22	0.18
192.67	0.00	193.19	0.06	193.71	0.13	194.23	0.18
192.68	0.00	193.20	0.06	193.72	0.13	194.24	0.18
192.69	0.00	193.21	0.06	193.73	0.13	194.25	0.18
192.70	0.00	193.22	0.06	193.74	0.13	194.26	0.18
192.71	0.00	193.23	0.06	193.75	0.13	194.27	0.18
192.72	0.00	193.24	0.07	193.76	0.14	194.28	0.18
192.73	0.00	193.25	0.07	193.77	0.14	194.29	0.18
192.74	0.00	193.26	0.07	193.78	0.14	194.30	0.18
192.75	0.00	193.27	0.07	193.79	0.14	194.31	0.18
192.76	0.00	193.28	0.07	193.80	0.14	194.32	0.18
192.77	0.00	193.29	0.08	193.81	0.14	194.33	0.18
192.78	0.00	193.30	0.08	193.82	0.14	194.34	0.18
192.79	0.00	193.31	0.08	193.83	0.14	194.35	0.19
192.80	0.00	193.32	0.08	193.84	0.14	194.36	0.19
192.81	0.00	193.33	0.08	193.85	0.14	194.37	0.19

Stage-Discharge for Pond B-31: Basin #31 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.38	0.19	194.90	0.22	195.42	3.74	195.94	49.49
194.39	0.19	194.91	0.22	195.43	3.86	195.95	51.13
194.40	0.19	194.92	0.22	195.44	3.99	195.96	52.81
194.41	0.19	194.93	0.22	195.45	4.11	195.97	54.51
194.42	0.19	194.94	0.22	195.46	4.24	195.98	56.24
194.43	0.19	194.95	0.22	195.47	4.37	195.99	57.99
194.44	0.19	194.96	0.23	195.48	4.50	196.00	**59.77**
194.45	0.19	194.97	0.23	195.49	4.63		
194.46	0.19	194.98	0.23	195.50	4.76		
194.47	0.19	194.99	0.23	195.51	5.02		
194.48	0.19	195.00	0.23	195.52	5.37		
194.49	0.20	195.01	0.24	195.53	5.78		
194.50	0.20	195.02	0.27	195.54	6.25		
194.51	0.20	195.03	0.30	195.55	6.76		
194.52	0.20	195.04	0.33	195.56	7.31		
194.53	0.20	195.05	0.38	195.57	7.90		
194.54	0.20	195.06	0.42	195.58	8.53		
194.55	0.20	195.07	0.47	195.59	9.19		
194.56	0.20	195.08	0.53	195.60	9.88		
194.57	0.20	195.09	0.58	195.61	10.59		
194.58	0.20	195.10	0.65	195.62	11.34		
194.59	0.20	195.11	0.71	195.63	12.12		
194.60	0.20	195.12	0.78	195.64	12.92		
194.61	0.20	195.13	0.84	195.65	13.74		
194.62	0.20	195.14	0.92	195.66	14.59		
194.63	0.20	195.15	0.99	195.67	15.47		
194.64	0.21	195.16	1.07	195.68	16.36		
194.65	0.21	195.17	1.15	195.69	17.28		
194.66	0.21	195.18	1.23	195.70	18.22		
194.67	0.21	195.19	1.31	195.71	19.23		
194.68	0.21	195.20	1.40	195.72	20.25		
194.69	0.21	195.21	1.49	195.73	21.31		
194.70	0.21	195.22	1.58	195.74	22.39		
194.71	0.21	195.23	1.67	195.75	23.50		
194.72	0.21	195.24	1.76	195.76	24.63		
194.73	0.21	195.25	1.86	195.77	25.79		
194.74	0.21	195.26	1.95	195.78	26.98		
194.75	0.21	195.27	2.05	195.79	28.19		
194.76	0.21	195.28	2.15	195.80	29.42		
194.77	0.21	195.29	2.26	195.81	30.69		
194.78	0.21	195.30	2.36	195.82	31.97		
194.79	0.22	195.31	2.47	195.83	33.29		
194.80	0.22	195.32	2.58	195.84	34.62		
194.81	0.22	195.33	2.69	195.85	35.98		
194.82	0.22	195.34	2.80	195.86	37.37		
194.83	0.22	195.35	2.91	195.87	38.78		
194.84	0.22	195.36	3.02	195.88	40.22		
194.85	0.22	195.37	3.14	195.89	41.68		
194.86	0.22	195.38	3.25	195.90	43.17		
194.87	0.22	195.39	3.37	195.91	44.71		
194.88	0.22	195.40	3.49	195.92	46.28		
194.89	0.22	195.41	3.61	195.93	47.87		

Stage-Area-Storage for Pond B-31: Basin #31

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.30	0	0	192.82	1,444	375
192.31	28	0	192.83	1,472	390
192.32	56	1	192.84	1,500	405
192.33	83	1	192.85	1,527	420
192.34	111	2	192.86	1,555	435
192.35	139	3	192.87	1,583	451
192.36	167	5	192.88	1,611	467
192.37	194	7	192.89	1,639	483
192.38	222	9	192.90	1,666	500
192.39	250	11	192.91	1,694	517
192.40	278	14	192.92	1,722	534
192.41	305	17	192.93	1,750	551
192.42	333	20	192.94	1,777	569
192.43	361	23	192.95	1,805	587
192.44	389	27	192.96	1,833	605
192.45	417	31	192.97	1,861	623
192.46	444	36	192.98	1,888	642
192.47	472	40	192.99	1,916	661
192.48	500	45	193.00	1,944	680
192.49	528	50	193.01	1,950	700
192.50	555	56	193.02	1,956	719
192.51	583	61	193.03	1,963	739
192.52	611	67	193.04	1,969	759
192.53	639	73	193.05	1,975	778
192.54	667	80	193.06	1,981	798
192.55	694	87	193.07	1,988	818
192.56	722	94	193.08	1,994	838
192.57	750	101	193.09	2,000	858
192.58	778	109	193.10	2,006	878
192.59	805	117	193.11	2,012	898
192.60	833	125	193.12	2,019	918
192.61	861	133	193.13	2,025	938
192.62	889	142	193.14	2,031	959
192.63	916	151	193.15	2,037	979
192.64	944	161	193.16	2,044	999
192.65	972	170	193.17	2,050	1,020
192.66	1,000	180	193.18	2,056	1,040
192.67	1,028	190	193.19	2,062	1,061
192.68	1,055	201	193.20	2,068	1,082
192.69	1,083	211	193.21	2,075	1,102
192.70	1,111	222	193.22	2,081	1,123
192.71	1,139	233	193.23	2,087	1,144
192.72	1,166	245	193.24	2,093	1,165
192.73	1,194	257	193.25	2,100	1,186
192.74	1,222	269	193.26	2,106	1,207
192.75	1,250	281	193.27	2,112	1,228
192.76	1,277	294	193.28	2,118	1,249
192.77	1,305	307	193.29	2,124	1,270
192.78	1,333	320	193.30	2,131	1,292
192.79	1,361	333	193.31	2,137	1,313
192.80	1,389	347	193.32	2,143	1,334
192.81	1,416	361	193.33	2,149	1,356

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.34	2,155	1,377	193.86	2,479	2,582
193.35	2,162	1,399	193.87	2,485	2,607
193.36	2,168	1,421	193.88	2,491	2,632
193.37	2,174	1,442	193.89	2,498	2,657
193.38	2,180	1,464	193.90	2,504	2,682
193.39	2,187	1,486	193.91	2,510	2,707
193.40	2,193	1,508	193.92	2,516	2,732
193.41	2,199	1,530	193.93	2,522	2,757
193.42	2,205	1,552	193.94	2,529	2,783
193.43	2,211	1,574	193.95	2,535	2,808
193.44	2,218	1,596	193.96	2,541	2,833
193.45	2,224	1,618	193.97	2,547	2,859
193.46	2,230	1,640	193.98	2,554	2,884
193.47	2,236	1,663	193.99	2,560	2,910
193.48	2,243	1,685	194.00	2,566	2,935
193.49	2,249	1,708	194.01	2,573	2,961
193.50	2,255	1,730	194.02	2,580	2,987
193.51	2,261	1,753	194.03	2,586	3,013
193.52	2,267	1,775	194.04	2,593	3,039
193.53	2,274	1,798	194.05	2,600	3,065
193.54	2,280	1,821	194.06	2,607	3,091
193.55	2,286	1,844	194.07	2,614	3,117
193.56	2,292	1,867	194.08	2,620	3,143
193.57	2,299	1,890	194.09	2,627	3,169
193.58	2,305	1,913	194.10	2,634	3,195
193.59	2,311	1,936	194.11	2,641	3,222
193.60	2,317	1,959	194.12	2,647	3,248
193.61	2,323	1,982	194.13	2,654	3,275
193.62	2,330	2,005	194.14	2,661	3,301
193.63	2,336	2,029	194.15	2,668	3,328
193.64	2,342	2,052	194.16	2,675	3,355
193.65	2,348	2,075	194.17	2,681	3,381
193.66	2,355	2,099	194.18	2,688	3,408
193.67	2,361	2,122	194.19	2,695	3,435
193.68	2,367	2,146	194.20	2,702	3,462
193.69	2,373	2,170	194.21	2,709	3,489
193.70	2,379	2,194	194.22	2,715	3,516
193.71	2,386	2,217	194.23	2,722	3,544
193.72	2,392	2,241	194.24	2,729	3,571
193.73	2,398	2,265	194.25	2,736	3,598
193.74	2,404	2,289	194.26	2,743	3,626
193.75	2,411	2,313	194.27	2,749	3,653
193.76	2,417	2,337	194.28	2,756	3,680
193.77	2,423	2,362	194.29	2,763	3,708
193.78	2,429	2,386	194.30	2,770	3,736
193.79	2,435	2,410	194.31	2,776	3,763
193.80	2,442	2,435	194.32	2,783	3,791
193.81	2,448	2,459	194.33	2,790	3,819
193.82	2,454	2,484	194.34	2,797	3,847
193.83	2,460	2,508	194.35	2,804	3,875
193.84	2,466	2,533	194.36	2,810	3,903
193.85	2,473	2,557	194.37	2,817	3,931

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.38	2,824	3,960
194.39	2,831	3,988
194.40	2,838	4,016
194.41	2,844	4,045
194.42	2,851	4,073
194.43	2,858	4,102
194.44	2,865	4,130
194.45	2,872	4,159
194.46	2,878	4,188
194.47	2,885	4,216
194.48	2,892	4,245
194.49	2,899	4,274
194.50	2,906	4,303
194.51	2,912	4,332
194.52	2,919	4,362
194.53	2,926	4,391
194.54	2,933	4,420
194.55	2,939	4,449
194.56	2,946	4,479
194.57	2,953	4,508
194.58	2,960	4,538
194.59	2,967	4,568
194.60	2,973	4,597
194.61	2,980	4,627
194.62	2,987	4,657
194.63	2,994	4,687
194.64	3,001	4,717
194.65	3,007	4,747
194.66	3,014	4,777
194.67	3,021	4,807
194.68	3,028	4,837
194.69	3,035	4,868
194.70	3,041	4,898
194.71	3,048	4,928
194.72	3,055	4,959
194.73	3,062	4,989
194.74	3,068	5,020
194.75	3,075	5,051
194.76	3,082	5,082
194.77	3,089	5,113
194.78	3,096	5,143
194.79	3,102	5,174
194.80	3,109	5,205
194.81	3,116	5,237
194.82	3,123	5,268
194.83	3,130	5,299
194.84	3,136	5,330
194.85	3,143	5,362
194.86	3,150	5,393
194.87	3,157	5,425
194.88	3,164	5,456
194.89	3,170	5,488
194.90	3,177	5,520
194.91	3,184	5,552
194.92	3,191	5,583
194.93	3,197	5,615
194.94	3,204	5,647
194.95	3,211	5,679
194.96	3,218	5,712
194.97	3,225	5,744
194.98	3,231	5,776
194.99	3,238	5,808
195.00	3,245	5,841
195.01	3,252	5,873
195.02	3,260	5,906
195.03	3,267	5,939
195.04	3,274	5,971
195.05	3,282	6,004
195.06	3,289	6,037
195.07	3,296	6,070
195.08	3,304	6,103
195.09	3,311	6,136
195.10	3,319	6,169
195.11	3,326	6,202
195.12	3,333	6,236
195.13	3,341	6,269
195.14	3,348	6,302
195.15	3,355	6,336
195.16	3,363	6,370
195.17	3,370	6,403
195.18	3,377	6,437
195.19	3,385	6,471
195.20	3,392	6,505
195.21	3,399	6,539
195.22	3,407	6,573
195.23	3,414	6,607
195.24	3,421	6,641
195.25	3,429	6,675
195.26	3,436	6,709
195.27	3,443	6,744
195.28	3,451	6,778
195.29	3,458	6,813
195.30	3,466	6,847
195.31	3,473	6,882
195.32	3,480	6,917
195.33	3,488	6,952
195.34	3,495	6,987
195.35	3,502	7,022
195.36	3,510	7,057
195.37	3,517	7,092
195.38	3,524	7,127
195.39	3,532	7,162
195.40	3,539	7,198
195.41	3,546	7,233

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.42	3,554	7,269
195.43	3,561	7,304
195.44	3,568	7,340
195.45	3,576	7,376
195.46	3,583	7,411
195.47	3,590	7,447
195.48	3,598	7,483
195.49	3,605	7,519
195.50	3,613	7,555
195.51	3,620	7,591
195.52	3,627	7,628
195.53	3,635	7,664
195.54	3,642	7,700
195.55	3,649	7,737
195.56	3,657	7,773
195.57	3,664	7,810
195.58	3,671	7,847
195.59	3,679	7,883
195.60	3,686	7,920
195.61	3,693	7,957
195.62	3,701	7,994
195.63	3,708	8,031
195.64	3,715	8,068
195.65	3,723	8,105
195.66	3,730	8,143
195.67	3,737	8,180
195.68	3,745	8,217
195.69	3,752	8,255
195.70	3,760	8,292
195.71	3,767	8,330
195.72	3,774	8,368
195.73	3,782	8,406
195.74	3,789	8,443
195.75	3,796	8,481
195.76	3,804	8,519
195.77	3,811	8,557
195.78	3,818	8,596
195.79	3,826	8,634
195.80	3,833	8,672
195.81	3,840	8,710
195.82	3,848	8,749
195.83	3,855	8,787
195.84	3,862	8,826
195.85	3,870	8,865
195.86	3,877	8,903
195.87	3,884	8,942
195.88	3,892	8,981
195.89	3,899	9,020
195.90	3,907	9,059
195.91	3,914	9,098
195.92	3,921	9,137
195.93	3,929	9,177
195.94	3,936	9,216
195.95	3,943	9,255
195.96	3,951	9,295
195.97	3,958	9,334
195.98	3,965	9,374
195.99	3,973	9,414
196.00	**3,980**	**9,453**

Summary for Pond B-32: Basin #32

Inflow Area = 1.346 ac, 28.68% Impervious, Inflow Depth = 2.10" for Future 2 yr event
Inflow = 2.90 cfs @ 12.18 hrs, Volume= 0.235 af
Outflow = 2.22 cfs @ 12.26 hrs, Volume= 0.196 af, Atten= 23%, Lag= 5.2 min
Primary = 2.22 cfs @ 12.26 hrs, Volume= 0.196 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 195.94' @ 12.26 hrs Surf.Area= 3,522 sf Storage= 2,972 cf

Plug-Flow detention time= 139.7 min calculated for 0.196 af (83% of inflow)
Center-of-Mass det. time= 64.1 min (872.5 - 808.4)

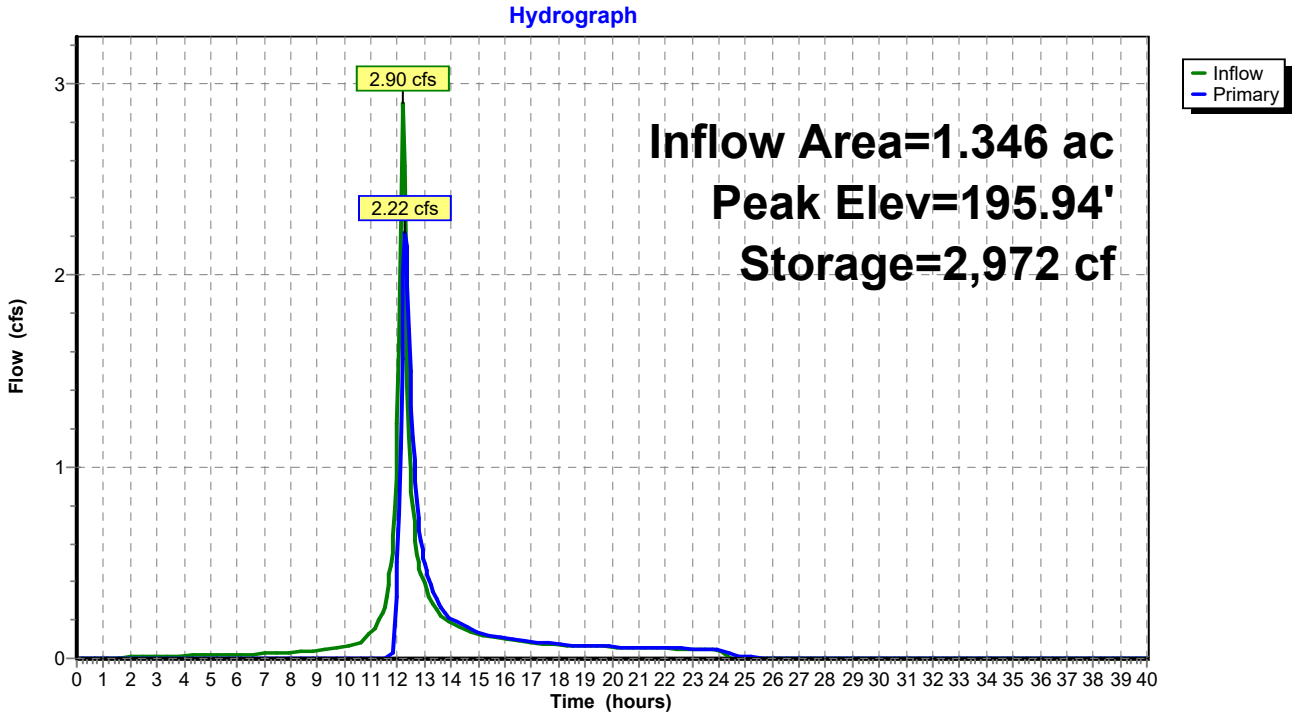
Volume	Invert	Avail.Storage	Storage Description
#1	195.00'	11,936 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
195.00	2,830	0	0
196.00	3,569	3,200	3,200
197.00	4,349	3,959	7,159
198.00	5,206	4,778	11,936

Device	Routing	Invert	Outlet Devices
#1	Primary	195.00'	**24.0" Round Culvert** L= 43.0' Ke= 0.500 Inlet / Outlet Invert= 195.00' / 193.94' S= 0.0247 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	195.56'	**36.0" W x 6.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	197.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.19 cfs @ 12.26 hrs HW=195.93' (Free Discharge)
- **1=Culvert** (Passes 2.19 cfs of 4.72 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 2.19 cfs @ 1.96 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-32: Basin #32



Stage-Discharge for Pond B-32: Basin #32

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.00	0.00	195.52	0.00	196.04	3.20	196.56	6.23
195.01	0.00	195.53	0.00	196.05	3.30	196.57	6.27
195.02	0.00	195.54	0.00	196.06	3.40	196.58	6.31
195.03	0.00	195.55	0.00	196.07	3.50	196.59	6.35
195.04	0.00	195.56	0.00	196.08	3.58	196.60	6.39
195.05	0.00	195.57	0.01	196.09	3.67	196.61	6.43
195.06	0.00	195.58	0.03	196.10	3.74	196.62	6.47
195.07	0.00	195.59	0.05	196.11	3.82	196.63	6.51
195.08	0.00	195.60	0.08	196.12	3.89	196.64	6.55
195.09	0.00	195.61	0.11	196.13	3.97	196.65	6.59
195.10	0.00	195.62	0.14	196.14	4.04	196.66	6.63
195.11	0.00	195.63	0.18	196.15	4.10	196.67	6.67
195.12	0.00	195.64	0.22	196.16	4.17	196.68	6.71
195.13	0.00	195.65	0.26	196.17	4.24	196.69	6.75
195.14	0.00	195.66	0.30	196.18	4.30	196.70	6.79
195.15	0.00	195.67	0.35	196.19	4.36	196.71	6.83
195.16	0.00	195.68	0.40	196.20	4.43	196.72	6.87
195.17	0.00	195.69	0.45	196.21	4.49	196.73	6.91
195.18	0.00	195.70	0.50	196.22	4.55	196.74	6.94
195.19	0.00	195.71	0.56	196.23	4.61	196.75	6.98
195.20	0.00	195.72	0.62	196.24	4.66	196.76	7.02
195.21	0.00	195.73	0.67	196.25	4.72	196.77	7.06
195.22	0.00	195.74	0.74	196.26	4.78	196.78	7.09
195.23	0.00	195.75	0.80	196.27	4.83	196.79	7.13
195.24	0.00	195.76	0.86	196.28	4.89	196.80	7.17
195.25	0.00	195.77	0.93	196.29	4.94	196.81	7.20
195.26	0.00	195.78	0.99	196.30	5.00	196.82	7.24
195.27	0.00	195.79	1.06	196.31	5.05	196.83	7.28
195.28	0.00	195.80	1.13	196.32	5.10	196.84	7.31
195.29	0.00	195.81	1.20	196.33	5.16	196.85	7.35
195.30	0.00	195.82	1.28	196.34	5.21	196.86	7.38
195.31	0.00	195.83	1.35	196.35	5.26	196.87	7.42
195.32	0.00	195.84	1.43	196.36	5.31	196.88	7.45
195.33	0.00	195.85	1.50	196.37	5.36	196.89	7.49
195.34	0.00	195.86	1.58	196.38	5.41	196.90	7.52
195.35	0.00	195.87	1.66	196.39	5.46	196.91	7.56
195.36	0.00	195.88	1.74	196.40	5.50	196.92	7.59
195.37	0.00	195.89	1.83	196.41	5.55	196.93	7.63
195.38	0.00	195.90	1.91	196.42	5.60	196.94	7.66
195.39	0.00	195.91	1.99	196.43	5.65	196.95	7.70
195.40	0.00	195.92	2.08	196.44	5.69	196.96	7.73
195.41	0.00	195.93	2.17	196.45	5.74	196.97	7.76
195.42	0.00	195.94	2.26	196.46	5.79	196.98	7.80
195.43	0.00	195.95	2.35	196.47	5.83	196.99	7.83
195.44	0.00	195.96	2.44	196.48	5.88	197.00	7.86
195.45	0.00	195.97	2.53	196.49	5.92	197.01	7.91
195.46	0.00	195.98	2.62	196.50	5.97	197.02	7.97
195.47	0.00	195.99	2.72	196.51	6.01	197.03	8.03
195.48	0.00	196.00	2.81	196.52	6.05	197.04	8.10
195.49	0.00	196.01	2.91	196.53	6.10	197.05	8.17
195.50	0.00	196.02	3.00	196.54	6.14	197.06	8.25
195.51	0.00	196.03	3.10	196.55	6.18	197.07	8.34

Stage-Discharge for Pond B-32: Basin #32 (continued)

Elevation (feet)	Primary (cfs)
197.08	8.42
197.09	8.51
197.10	8.60
197.11	8.70
197.12	8.79
197.13	8.89
197.14	9.00
197.15	9.10
197.16	9.21
197.17	9.32
197.18	9.43
197.19	9.55
197.20	9.66
197.21	9.78
197.22	9.90
197.23	10.02
197.24	10.15
197.25	10.27
197.26	10.40
197.27	10.53
197.28	10.66
197.29	10.79
197.30	10.92
197.31	11.06
197.32	11.19
197.33	11.33
197.34	11.47
197.35	11.61
197.36	11.76
197.37	11.90
197.38	12.05
197.39	12.19
197.40	12.34
197.41	12.49
197.42	12.64
197.43	12.79
197.44	12.95
197.45	13.10
197.46	13.26
197.47	13.41
197.48	13.57
197.49	13.73
197.50	13.89
197.51	14.05
197.52	14.21
197.53	14.38
197.54	14.54
197.55	14.71
197.56	14.87
197.57	15.04
197.58	15.21
197.59	15.38
197.60	15.55
197.61	15.72
197.62	15.90
197.63	16.07
197.64	16.25
197.65	16.42
197.66	16.60
197.67	16.78
197.68	16.95
197.69	17.13
197.70	17.31
197.71	17.50
197.72	17.68
197.73	17.86
197.74	18.05
197.75	18.23
197.76	18.42
197.77	18.60
197.78	18.79
197.79	18.98
197.80	19.17
197.81	19.36
197.82	19.55
197.83	19.74
197.84	19.93
197.85	20.12
197.86	20.32
197.87	20.51
197.88	20.71
197.89	20.80
197.90	20.85
197.91	20.91
197.92	20.96
197.93	21.01
197.94	21.07
197.95	21.12
197.96	21.29
197.97	21.56
197.98	21.89
197.99	22.28
198.00	**22.70**

Stage-Area-Storage for Pond B-32: Basin #32

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.00	2,830	0	195.52	3,214	1,572
195.01	2,837	28	195.53	3,222	1,604
195.02	2,845	57	195.54	3,229	1,636
195.03	2,852	85	195.55	3,236	1,668
195.04	2,860	114	195.56	3,244	1,701
195.05	2,867	142	195.57	3,251	1,733
195.06	2,874	171	195.58	3,259	1,766
195.07	2,882	200	195.59	3,266	1,798
195.08	2,889	229	195.60	3,273	1,831
195.09	2,897	258	195.61	3,281	1,864
195.10	2,904	287	195.62	3,288	1,897
195.11	2,911	316	195.63	3,296	1,930
195.12	2,919	345	195.64	3,303	1,963
195.13	2,926	374	195.65	3,310	1,996
195.14	2,933	403	195.66	3,318	2,029
195.15	2,941	433	195.67	3,325	2,062
195.16	2,948	462	195.68	3,333	2,095
195.17	2,956	492	195.69	3,340	2,129
195.18	2,963	521	195.70	3,347	2,162
195.19	2,970	551	195.71	3,355	2,196
195.20	2,978	581	195.72	3,362	2,229
195.21	2,985	611	195.73	3,369	2,263
195.22	2,993	640	195.74	3,377	2,297
195.23	3,000	670	195.75	3,384	2,330
195.24	3,007	700	195.76	3,392	2,364
195.25	3,015	731	195.77	3,399	2,398
195.26	3,022	761	195.78	3,406	2,432
195.27	3,030	791	195.79	3,414	2,466
195.28	3,037	821	195.80	3,421	2,500
195.29	3,044	852	195.81	3,429	2,535
195.30	3,052	882	195.82	3,436	2,569
195.31	3,059	913	195.83	3,443	2,603
195.32	3,066	943	195.84	3,451	2,638
195.33	3,074	974	195.85	3,458	2,672
195.34	3,081	1,005	195.86	3,466	2,707
195.35	3,089	1,036	195.87	3,473	2,742
195.36	3,096	1,067	195.88	3,480	2,777
195.37	3,103	1,098	195.89	3,488	2,811
195.38	3,111	1,129	195.90	3,495	2,846
195.39	3,118	1,160	195.91	3,502	2,881
195.40	3,126	1,191	195.92	3,510	2,916
195.41	3,133	1,222	195.93	3,517	2,951
195.42	3,140	1,254	195.94	3,525	2,987
195.43	3,148	1,285	195.95	3,532	3,022
195.44	3,155	1,317	195.96	3,539	3,057
195.45	3,163	1,348	195.97	3,547	3,093
195.46	3,170	1,380	195.98	3,554	3,128
195.47	3,177	1,412	195.99	3,562	3,164
195.48	3,185	1,444	196.00	3,569	3,200
195.49	3,192	1,475	196.01	3,577	3,235
195.50	3,200	1,507	196.02	3,585	3,271
195.51	3,207	1,539	196.03	3,592	3,307

Stage-Area-Storage for Pond B-32: Basin #32 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.04	3,600	3,343	196.56	4,006	5,320
196.05	3,608	3,379	196.57	4,014	5,361
196.06	3,616	3,415	196.58	4,021	5,401
196.07	3,624	3,451	196.59	4,029	5,441
196.08	3,631	3,488	196.60	4,037	5,481
196.09	3,639	3,524	196.61	4,045	5,522
196.10	3,647	3,560	196.62	4,053	5,562
196.11	3,655	3,597	196.63	4,060	5,603
196.12	3,663	3,633	196.64	4,068	5,643
196.13	3,670	3,670	196.65	4,076	5,684
196.14	3,678	3,707	196.66	4,084	5,725
196.15	3,686	3,744	196.67	4,092	5,766
196.16	3,694	3,781	196.68	4,099	5,807
196.17	3,702	3,818	196.69	4,107	5,848
196.18	3,709	3,855	196.70	4,115	5,889
196.19	3,717	3,892	196.71	4,123	5,930
196.20	3,725	3,929	196.72	4,131	5,971
196.21	3,733	3,966	196.73	4,138	6,013
196.22	3,741	4,004	196.74	4,146	6,054
196.23	3,748	4,041	196.75	4,154	6,096
196.24	3,756	4,079	196.76	4,162	6,137
196.25	3,764	4,116	196.77	4,170	6,179
196.26	3,772	4,154	196.78	4,177	6,221
196.27	3,780	4,192	196.79	4,185	6,262
196.28	3,787	4,229	196.80	4,193	6,304
196.29	3,795	4,267	196.81	4,201	6,346
196.30	3,803	4,305	196.82	4,209	6,388
196.31	3,811	4,343	196.83	4,216	6,430
196.32	3,819	4,382	196.84	4,224	6,473
196.33	3,826	4,420	196.85	4,232	6,515
196.34	3,834	4,458	196.86	4,240	6,557
196.35	3,842	4,496	196.87	4,248	6,600
196.36	3,850	4,535	196.88	4,255	6,642
196.37	3,858	4,573	196.89	4,263	6,685
196.38	3,865	4,612	196.90	4,271	6,728
196.39	3,873	4,651	196.91	4,279	6,770
196.40	3,881	4,690	196.92	4,287	6,813
196.41	3,889	4,728	196.93	4,294	6,856
196.42	3,897	4,767	196.94	4,302	6,899
196.43	3,904	4,806	196.95	4,310	6,942
196.44	3,912	4,845	196.96	4,318	6,985
196.45	3,920	4,885	196.97	4,326	7,028
196.46	3,928	4,924	196.98	4,333	7,072
196.47	3,936	4,963	196.99	4,341	7,115
196.48	3,943	5,002	197.00	4,349	7,159
196.49	3,951	5,042	197.01	4,358	7,202
196.50	3,959	5,082	197.02	4,366	7,246
196.51	3,967	5,121	197.03	4,375	7,289
196.52	3,975	5,161	197.04	4,383	7,333
196.53	3,982	5,201	197.05	4,392	7,377
196.54	3,990	5,240	197.06	4,400	7,421
196.55	3,998	5,280	197.07	4,409	7,465

Stage-Area-Storage for Pond B-32: Basin #32 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.08	4,418	7,509
197.09	4,426	7,553
197.10	4,435	7,598
197.11	4,443	7,642
197.12	4,452	7,687
197.13	4,460	7,731
197.14	4,469	7,776
197.15	4,478	7,820
197.16	4,486	7,865
197.17	4,495	7,910
197.18	4,503	7,955
197.19	4,512	8,000
197.20	4,520	8,045
197.21	4,529	8,091
197.22	4,538	8,136
197.23	4,546	8,181
197.24	4,555	8,227
197.25	4,563	8,273
197.26	4,572	8,318
197.27	4,580	8,364
197.28	4,589	8,410
197.29	4,598	8,456
197.30	4,606	8,502
197.31	4,615	8,548
197.32	4,623	8,594
197.33	4,632	8,640
197.34	4,640	8,687
197.35	4,649	8,733
197.36	4,658	8,780
197.37	4,666	8,826
197.38	4,675	8,873
197.39	4,683	8,920
197.40	4,692	8,967
197.41	4,700	9,014
197.42	4,709	9,061
197.43	4,718	9,108
197.44	4,726	9,155
197.45	4,735	9,202
197.46	4,743	9,250
197.47	4,752	9,297
197.48	4,760	9,345
197.49	4,769	9,392
197.50	4,778	9,440
197.51	4,786	9,488
197.52	4,795	9,536
197.53	4,803	9,584
197.54	4,812	9,632
197.55	4,820	9,680
197.56	4,829	9,728
197.57	4,837	9,777
197.58	4,846	9,825
197.59	4,855	9,874
197.60	4,863	9,922
197.61	4,872	9,971
197.62	4,880	10,020
197.63	4,889	10,068
197.64	4,897	10,117
197.65	4,906	10,166
197.66	4,915	10,215
197.67	4,923	10,265
197.68	4,932	10,314
197.69	4,940	10,363
197.70	4,949	10,413
197.71	4,957	10,462
197.72	4,966	10,512
197.73	4,975	10,562
197.74	4,983	10,611
197.75	4,992	10,661
197.76	5,000	10,711
197.77	5,009	10,761
197.78	5,017	10,811
197.79	5,026	10,862
197.80	5,035	10,912
197.81	5,043	10,962
197.82	5,052	11,013
197.83	5,060	11,063
197.84	5,069	11,114
197.85	5,077	11,165
197.86	5,086	11,216
197.87	5,095	11,266
197.88	5,103	11,317
197.89	5,112	11,369
197.90	5,120	11,420
197.91	5,129	11,471
197.92	5,137	11,522
197.93	5,146	11,574
197.94	5,155	11,625
197.95	5,163	11,677
197.96	5,172	11,728
197.97	5,180	11,780
197.98	5,189	11,832
197.99	5,197	11,884
198.00	**5,206**	**11,936**

Summary for Pond B-33: Basin #33

Inflow Area = 1.761 ac, 50.99% Impervious, Inflow Depth = 2.57" for Future 2 yr event
Inflow = 4.53 cfs @ 12.17 hrs, Volume= 0.378 af
Outflow = 1.06 cfs @ 12.60 hrs, Volume= 0.292 af, Atten= 77%, Lag= 25.6 min
Primary = 1.06 cfs @ 12.60 hrs, Volume= 0.292 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 186.41' @ 12.60 hrs Surf.Area= 4,483 sf Storage= 9,213 cf

Plug-Flow detention time= 435.5 min calculated for 0.292 af (77% of inflow)
Center-of-Mass det. time= 346.6 min (1,132.5 - 786.0)

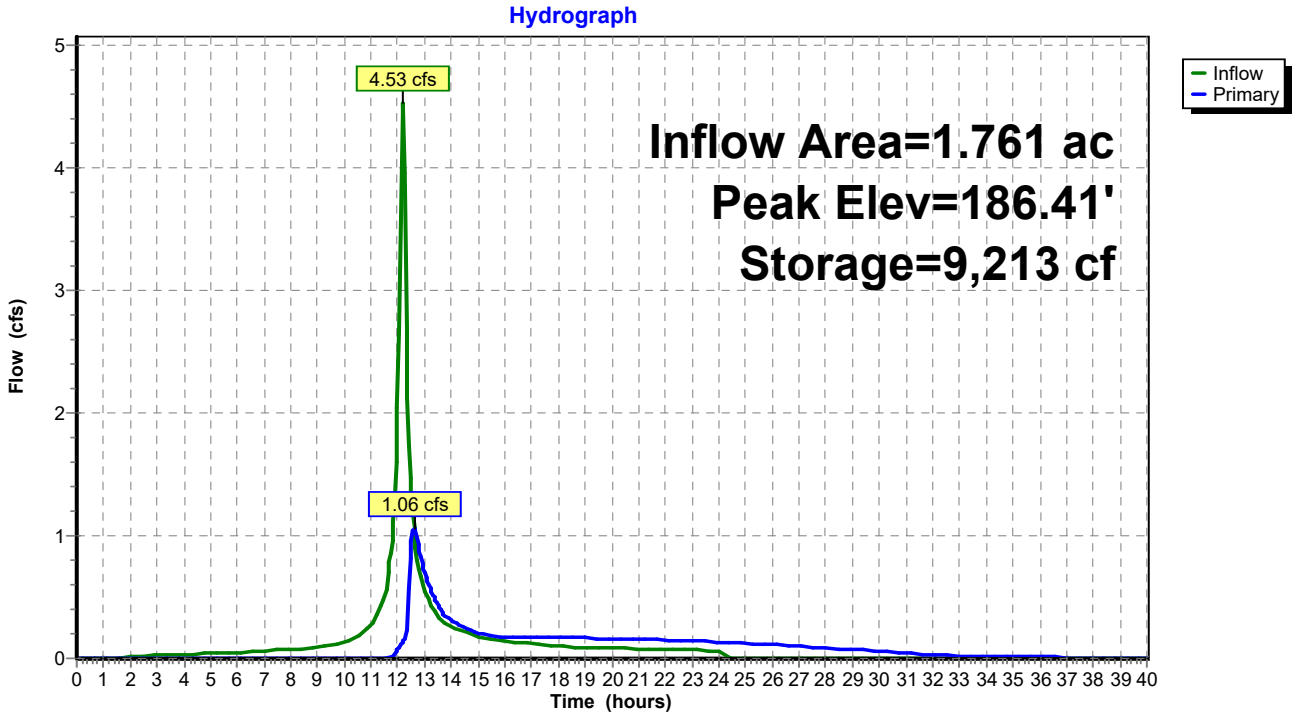
Volume	Invert	Avail.Storage	Storage Description
#1	183.30'	17,481 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
183.30	0	0	0
184.00	2,481	868	868
185.00	3,268	2,875	3,743
186.00	4,111	3,690	7,432
187.00	5,010	4,561	11,993
188.00	5,966	5,488	17,481

Device	Routing	Invert	Outlet Devices
#1	Primary	184.00'	**18.0" Round Culvert** L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 184.00' / 182.00' S= 0.0192 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	184.96'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	186.25'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	187.75'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.05 cfs @ 12.60 hrs HW=186.41' (Free Discharge)
- **1=Culvert** (Passes 1.05 cfs of 10.98 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.19 cfs @ 5.59 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.86 cfs @ 1.33 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-33: Basin #33



Stage-Discharge for Pond B-33: Basin #33

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.30	0.00	183.82	0.00	184.34	0.00	184.86	0.00
183.31	0.00	183.83	0.00	184.35	0.00	184.87	0.00
183.32	0.00	183.84	0.00	184.36	0.00	184.88	0.00
183.33	0.00	183.85	0.00	184.37	0.00	184.89	0.00
183.34	0.00	183.86	0.00	184.38	0.00	184.90	0.00
183.35	0.00	183.87	0.00	184.39	0.00	184.91	0.00
183.36	0.00	183.88	0.00	184.40	0.00	184.92	0.00
183.37	0.00	183.89	0.00	184.41	0.00	184.93	0.00
183.38	0.00	183.90	0.00	184.42	0.00	184.94	0.00
183.39	0.00	183.91	0.00	184.43	0.00	184.95	0.00
183.40	0.00	183.92	0.00	184.44	0.00	184.96	0.00
183.41	0.00	183.93	0.00	184.45	0.00	184.97	0.00
183.42	0.00	183.94	0.00	184.46	0.00	184.98	0.00
183.43	0.00	183.95	0.00	184.47	0.00	184.99	0.00
183.44	0.00	183.96	0.00	184.48	0.00	185.00	0.00
183.45	0.00	183.97	0.00	184.49	0.00	185.01	0.00
183.46	0.00	183.98	0.00	184.50	0.00	185.02	0.01
183.47	0.00	183.99	0.00	184.51	0.00	185.03	0.01
183.48	0.00	184.00	0.00	184.52	0.00	185.04	0.01
183.49	0.00	184.01	0.00	184.53	0.00	185.05	0.01
183.50	0.00	184.02	0.00	184.54	0.00	185.06	0.02
183.51	0.00	184.03	0.00	184.55	0.00	185.07	0.02
183.52	0.00	184.04	0.00	184.56	0.00	185.08	0.02
183.53	0.00	184.05	0.00	184.57	0.00	185.09	0.03
183.54	0.00	184.06	0.00	184.58	0.00	185.10	0.03
183.55	0.00	184.07	0.00	184.59	0.00	185.11	0.03
183.56	0.00	184.08	0.00	184.60	0.00	185.12	0.04
183.57	0.00	184.09	0.00	184.61	0.00	185.13	0.04
183.58	0.00	184.10	0.00	184.62	0.00	185.14	0.05
183.59	0.00	184.11	0.00	184.63	0.00	185.15	0.05
183.60	0.00	184.12	0.00	184.64	0.00	185.16	0.05
183.61	0.00	184.13	0.00	184.65	0.00	185.17	0.05
183.62	0.00	184.14	0.00	184.66	0.00	185.18	0.06
183.63	0.00	184.15	0.00	184.67	0.00	185.19	0.06
183.64	0.00	184.16	0.00	184.68	0.00	185.20	0.06
183.65	0.00	184.17	0.00	184.69	0.00	185.21	0.06
183.66	0.00	184.18	0.00	184.70	0.00	185.22	0.06
183.67	0.00	184.19	0.00	184.71	0.00	185.23	0.07
183.68	0.00	184.20	0.00	184.72	0.00	185.24	0.07
183.69	0.00	184.21	0.00	184.73	0.00	185.25	0.07
183.70	0.00	184.22	0.00	184.74	0.00	185.26	0.07
183.71	0.00	184.23	0.00	184.75	0.00	185.27	0.07
183.72	0.00	184.24	0.00	184.76	0.00	185.28	0.08
183.73	0.00	184.25	0.00	184.77	0.00	185.29	0.08
183.74	0.00	184.26	0.00	184.78	0.00	185.30	0.08
183.75	0.00	184.27	0.00	184.79	0.00	185.31	0.08
183.76	0.00	184.28	0.00	184.80	0.00	185.32	0.08
183.77	0.00	184.29	0.00	184.81	0.00	185.33	0.08
183.78	0.00	184.30	0.00	184.82	0.00	185.34	0.09
183.79	0.00	184.31	0.00	184.83	0.00	185.35	0.09
183.80	0.00	184.32	0.00	184.84	0.00	185.36	0.09
183.81	0.00	184.33	0.00	184.85	0.00	185.37	0.09

Stage-Discharge for Pond B-33: Basin #33 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.38	0.09	185.90	0.15	186.42	1.10	186.94	7.46
185.39	0.09	185.91	0.15	186.43	1.18	186.95	7.62
185.40	0.10	185.92	0.15	186.44	1.27	186.96	7.77
185.41	0.10	185.93	0.15	186.45	1.35	186.97	7.93
185.42	0.10	185.94	0.15	186.46	1.44	186.98	8.09
185.43	0.10	185.95	0.15	186.47	1.53	186.99	8.25
185.44	0.10	185.96	0.16	186.48	1.62	187.00	8.41
185.45	0.10	185.97	0.16	186.49	1.72	187.01	8.57
185.46	0.10	185.98	0.16	186.50	1.81	187.02	8.73
185.47	0.10	185.99	0.16	186.51	1.91	187.03	8.89
185.48	0.11	186.00	0.16	186.52	2.01	187.04	9.05
185.49	0.11	186.01	0.16	186.53	2.11	187.05	9.22
185.50	0.11	186.02	0.16	186.54	2.21	187.06	9.38
185.51	0.11	186.03	0.16	186.55	2.32	187.07	9.55
185.52	0.11	186.04	0.16	186.56	2.42	187.08	9.71
185.53	0.11	186.05	0.16	186.57	2.53	187.09	9.88
185.54	0.11	186.06	0.16	186.58	2.64	187.10	10.05
185.55	0.11	186.07	0.16	186.59	2.75	187.11	10.22
185.56	0.12	186.08	0.17	186.60	2.86	187.12	10.39
185.57	0.12	186.09	0.17	186.61	2.98	187.13	10.56
185.58	0.12	186.10	0.17	186.62	3.09	187.14	10.73
185.59	0.12	186.11	0.17	186.63	3.21	187.15	10.90
185.60	0.12	186.12	0.17	186.64	3.33	187.16	11.08
185.61	0.12	186.13	0.17	186.65	3.45	187.17	11.25
185.62	0.12	186.14	0.17	186.66	3.57	187.18	11.42
185.63	0.12	186.15	0.17	186.67	3.69	187.19	11.60
185.64	0.12	186.16	0.17	186.68	3.82	187.20	11.78
185.65	0.13	186.17	0.17	186.69	3.94	187.21	11.95
185.66	0.13	186.18	0.17	186.70	4.07	187.22	12.13
185.67	0.13	186.19	0.17	186.71	4.20	187.23	12.31
185.68	0.13	186.20	0.17	186.72	4.33	187.24	12.49
185.69	0.13	186.21	0.18	186.73	4.46	187.25	12.67
185.70	0.13	186.22	0.18	186.74	4.59	187.26	12.85
185.71	0.13	186.23	0.18	186.75	4.72	187.27	13.03
185.72	0.13	186.24	0.18	186.76	4.86	187.28	13.21
185.73	0.13	186.25	0.18	186.77	4.99	187.29	13.40
185.74	0.13	186.26	0.19	186.78	5.13	187.30	13.58
185.75	0.14	186.27	0.22	186.79	5.27	187.31	13.61
185.76	0.14	186.28	0.25	186.80	5.40	187.32	13.64
185.77	0.14	186.29	0.29	186.81	5.54	187.33	13.67
185.78	0.14	186.30	0.33	186.82	5.69	187.34	13.69
185.79	0.14	186.31	0.37	186.83	5.83	187.35	13.72
185.80	0.14	186.32	0.43	186.84	5.97	187.36	13.75
185.81	0.14	186.33	0.48	186.85	6.12	187.37	13.77
185.82	0.14	186.34	0.54	186.86	6.26	187.38	13.80
185.83	0.14	186.35	0.60	186.87	6.41	187.39	13.83
185.84	0.14	186.36	0.66	186.88	6.56	187.40	13.85
185.85	0.15	186.37	0.73	186.89	6.70	187.41	13.88
185.86	0.15	186.38	0.80	186.90	6.85	187.42	13.90
185.87	0.15	186.39	0.87	186.91	7.00	187.43	13.93
185.88	0.15	186.40	0.94	186.92	7.16	187.44	13.96
185.89	0.15	186.41	1.02	186.93	7.31	187.45	13.98

Stage-Discharge for Pond B-33: Basin #33 (continued)

Elevation (feet)	Primary (cfs)
187.46	14.01
187.47	14.03
187.48	14.06
187.49	14.08
187.50	14.11
187.51	14.14
187.52	14.16
187.53	14.19
187.54	14.21
187.55	14.24
187.56	14.26
187.57	14.29
187.58	14.31
187.59	14.34
187.60	14.36
187.61	14.39
187.62	14.41
187.63	14.44
187.64	14.46
187.65	14.49
187.66	14.51
187.67	14.54
187.68	14.56
187.69	14.59
187.70	14.61
187.71	14.64
187.72	14.66
187.73	14.69
187.74	14.71
187.75	14.74
187.76	14.88
187.77	15.12
187.78	15.42
187.79	15.77
187.80	16.17
187.81	16.61
187.82	17.08
187.83	17.59
187.84	18.13
187.85	18.70
187.86	19.30
187.87	19.92
187.88	20.57
187.89	21.25
187.90	21.95
187.91	22.67
187.92	23.42
187.93	24.19
187.94	24.98
187.95	25.79
187.96	26.66
187.97	27.55
187.98	28.47
187.99	29.42
188.00	**30.39**

Stage-Area-Storage for Pond B-33: Basin #33

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.30	0	0	183.82	1,843	479
183.31	35	0	183.83	1,878	498
183.32	71	1	183.84	1,914	517
183.33	106	2	183.85	1,949	536
183.34	142	3	183.86	1,985	556
183.35	177	4	183.87	2,020	576
183.36	213	6	183.88	2,056	596
183.37	248	9	183.89	2,091	617
183.38	284	11	183.90	2,127	638
183.39	319	14	183.91	2,162	659
183.40	354	18	183.92	2,197	681
183.41	390	21	183.93	2,233	703
183.42	425	26	183.94	2,268	726
183.43	461	30	183.95	2,304	749
183.44	496	35	183.96	2,339	772
183.45	532	40	183.97	2,375	796
183.46	567	45	183.98	2,410	819
183.47	603	51	183.99	2,446	844
183.48	638	57	184.00	2,481	868
183.49	673	64	184.01	2,489	893
183.50	709	71	184.02	2,497	918
183.51	744	78	184.03	2,505	943
183.52	780	86	184.04	2,512	968
183.53	815	94	184.05	2,520	993
183.54	851	102	184.06	2,528	1,019
183.55	886	111	184.07	2,536	1,044
183.56	922	120	184.08	2,544	1,069
183.57	957	129	184.09	2,552	1,095
183.58	992	139	184.10	2,560	1,120
183.59	1,028	149	184.11	2,568	1,146
183.60	1,063	159	184.12	2,575	1,172
183.61	1,099	170	184.13	2,583	1,198
183.62	1,134	181	184.14	2,591	1,223
183.63	1,170	193	184.15	2,599	1,249
183.64	1,205	205	184.16	2,607	1,275
183.65	1,241	217	184.17	2,615	1,301
183.66	1,276	230	184.18	2,623	1,328
183.67	1,311	243	184.19	2,631	1,354
183.68	1,347	256	184.20	2,638	1,380
183.69	1,382	270	184.21	2,646	1,407
183.70	1,418	284	184.22	2,654	1,433
183.71	1,453	298	184.23	2,662	1,460
183.72	1,489	313	184.24	2,670	1,486
183.73	1,524	328	184.25	2,678	1,513
183.74	1,559	343	184.26	2,686	1,540
183.75	1,595	359	184.27	2,693	1,567
183.76	1,630	375	184.28	2,701	1,594
183.77	1,666	391	184.29	2,709	1,621
183.78	1,701	408	184.30	2,717	1,648
183.79	1,737	425	184.31	2,725	1,675
183.80	1,772	443	184.32	2,733	1,703
183.81	1,808	461	184.33	2,741	1,730

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.34	2,749	1,757
184.35	2,756	1,785
184.36	2,764	1,813
184.37	2,772	1,840
184.38	2,780	1,868
184.39	2,788	1,896
184.40	2,796	1,924
184.41	2,804	1,952
184.42	2,812	1,980
184.43	2,819	2,008
184.44	2,827	2,036
184.45	2,835	2,064
184.46	2,843	2,093
184.47	2,851	2,121
184.48	2,859	2,150
184.49	2,867	2,179
184.50	2,875	2,207
184.51	2,882	2,236
184.52	2,890	2,265
184.53	2,898	2,294
184.54	2,906	2,323
184.55	2,914	2,352
184.56	2,922	2,381
184.57	2,930	2,410
184.58	2,937	2,440
184.59	2,945	2,469
184.60	2,953	2,499
184.61	2,961	2,528
184.62	2,969	2,558
184.63	2,977	2,588
184.64	2,985	2,617
184.65	2,993	2,647
184.66	3,000	2,677
184.67	3,008	2,707
184.68	3,016	2,737
184.69	3,024	2,768
184.70	3,032	2,798
184.71	3,040	2,828
184.72	3,048	2,859
184.73	3,056	2,889
184.74	3,063	2,920
184.75	3,071	2,950
184.76	3,079	2,981
184.77	3,087	3,012
184.78	3,095	3,043
184.79	3,103	3,074
184.80	3,111	3,105
184.81	3,118	3,136
184.82	3,126	3,167
184.83	3,134	3,199
184.84	3,142	3,230
184.85	3,150	3,262
184.86	3,158	3,293
184.87	3,166	3,325
184.88	3,174	3,356
184.89	3,181	3,388
184.90	3,189	3,420
184.91	3,197	3,452
184.92	3,205	3,484
184.93	3,213	3,516
184.94	3,221	3,548
184.95	3,229	3,580
184.96	3,237	3,613
184.97	3,244	3,645
184.98	3,252	3,678
184.99	3,260	3,710
185.00	3,268	3,743
185.01	3,276	3,776
185.02	3,285	3,808
185.03	3,293	3,841
185.04	3,302	3,874
185.05	3,310	3,907
185.06	3,319	3,940
185.07	3,327	3,974
185.08	3,335	4,007
185.09	3,344	4,040
185.10	3,352	4,074
185.11	3,361	4,107
185.12	3,369	4,141
185.13	3,378	4,175
185.14	3,386	4,209
185.15	3,394	4,243
185.16	3,403	4,277
185.17	3,411	4,311
185.18	3,420	4,345
185.19	3,428	4,379
185.20	3,437	4,413
185.21	3,445	4,448
185.22	3,453	4,482
185.23	3,462	4,517
185.24	3,470	4,551
185.25	3,479	4,586
185.26	3,487	4,621
185.27	3,496	4,656
185.28	3,504	4,691
185.29	3,512	4,726
185.30	3,521	4,761
185.31	3,529	4,796
185.32	3,538	4,832
185.33	3,546	4,867
185.34	3,555	4,903
185.35	3,563	4,938
185.36	3,571	4,974
185.37	3,580	5,010

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.38	3,588	5,046	185.90	4,027	7,025
185.39	3,597	5,081	185.91	4,035	7,066
185.40	3,605	5,117	185.92	4,044	7,106
185.41	3,614	5,154	185.93	4,052	7,147
185.42	3,622	5,190	185.94	4,060	7,187
185.43	3,630	5,226	185.95	4,069	7,228
185.44	3,639	5,262	185.96	4,077	7,269
185.45	3,647	5,299	185.97	4,086	7,309
185.46	3,656	5,335	185.98	4,094	7,350
185.47	3,664	5,372	185.99	4,103	7,391
185.48	3,673	5,409	186.00	4,111	7,432
185.49	3,681	5,445	186.01	4,120	7,474
185.50	3,690	5,482	186.02	4,129	7,515
185.51	3,698	5,519	186.03	4,138	7,556
185.52	3,706	5,556	186.04	4,147	7,598
185.53	3,715	5,593	186.05	4,156	7,639
185.54	3,723	5,630	186.06	4,165	7,681
185.55	3,732	5,668	186.07	4,174	7,722
185.56	3,740	5,705	186.08	4,183	7,764
185.57	3,749	5,743	186.09	4,192	7,806
185.58	3,757	5,780	186.10	4,201	7,848
185.59	3,765	5,818	186.11	4,210	7,890
185.60	3,774	5,855	186.12	4,219	7,932
185.61	3,782	5,893	186.13	4,228	7,974
185.62	3,791	5,931	186.14	4,237	8,017
185.63	3,799	5,969	186.15	4,246	8,059
185.64	3,808	6,007	186.16	4,255	8,102
185.65	3,816	6,045	186.17	4,264	8,144
185.66	3,824	6,083	186.18	4,273	8,187
185.67	3,833	6,122	186.19	4,282	8,230
185.68	3,841	6,160	186.20	4,291	8,273
185.69	3,850	6,198	186.21	4,300	8,315
185.70	3,858	6,237	186.22	4,309	8,359
185.71	3,867	6,276	186.23	4,318	8,402
185.72	3,875	6,314	186.24	4,327	8,445
185.73	3,883	6,353	186.25	4,336	8,488
185.74	3,892	6,392	186.26	4,345	8,532
185.75	3,900	6,431	186.27	4,354	8,575
185.76	3,909	6,470	186.28	4,363	8,619
185.77	3,917	6,509	186.29	4,372	8,662
185.78	3,926	6,548	186.30	4,381	8,706
185.79	3,934	6,588	186.31	4,390	8,750
185.80	3,942	6,627	186.32	4,399	8,794
185.81	3,951	6,666	186.33	4,408	8,838
185.82	3,959	6,706	186.34	4,417	8,882
185.83	3,968	6,746	186.35	4,426	8,926
185.84	3,976	6,785	186.36	4,435	8,971
185.85	3,985	6,825	186.37	4,444	9,015
185.86	3,993	6,865	186.38	4,453	9,059
185.87	4,001	6,905	186.39	4,462	9,104
185.88	4,010	6,945	186.40	4,471	9,149
185.89	4,018	6,985	186.41	4,480	9,193

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.42	4,489	9,238	186.94	4,956	11,694
186.43	4,498	9,283	186.95	4,965	11,743
186.44	4,507	9,328	186.96	4,974	11,793
186.45	4,516	9,373	186.97	4,983	11,843
186.46	4,525	9,419	186.98	4,992	11,893
186.47	4,534	9,464	186.99	5,001	11,943
186.48	4,543	9,509	187.00	5,010	11,993
186.49	4,552	9,555	187.01	5,020	12,043
186.50	4,561	9,600	187.02	5,029	12,093
186.51	4,569	9,646	187.03	5,039	12,144
186.52	4,578	9,692	187.04	5,048	12,194
186.53	4,587	9,737	187.05	5,058	12,245
186.54	4,596	9,783	187.06	5,067	12,295
186.55	4,605	9,829	187.07	5,077	12,346
186.56	4,614	9,875	187.08	5,086	12,397
186.57	4,623	9,922	187.09	5,096	12,448
186.58	4,632	9,968	187.10	5,106	12,499
186.59	4,641	10,014	187.11	5,115	12,550
186.60	4,650	10,061	187.12	5,125	12,601
186.61	4,659	10,107	187.13	5,134	12,652
186.62	4,668	10,154	187.14	5,144	12,704
186.63	4,677	10,201	187.15	5,153	12,755
186.64	4,686	10,248	187.16	5,163	12,807
186.65	4,695	10,294	187.17	5,173	12,858
186.66	4,704	10,341	187.18	5,182	12,910
186.67	4,713	10,389	187.19	5,192	12,962
186.68	4,722	10,436	187.20	5,201	13,014
186.69	4,731	10,483	187.21	5,211	13,066
186.70	4,740	10,530	187.22	5,220	13,118
186.71	4,749	10,578	187.23	5,230	13,170
186.72	4,758	10,625	187.24	5,239	13,223
186.73	4,767	10,673	187.25	5,249	13,275
186.74	4,776	10,721	187.26	5,259	13,328
186.75	4,785	10,768	187.27	5,268	13,380
186.76	4,794	10,816	187.28	5,278	13,433
186.77	4,803	10,864	187.29	5,287	13,486
186.78	4,812	10,912	187.30	5,297	13,539
186.79	4,821	10,961	187.31	5,306	13,592
186.80	4,830	11,009	187.32	5,316	13,645
186.81	4,839	11,057	187.33	5,325	13,698
186.82	4,848	11,106	187.34	5,335	13,752
186.83	4,857	11,154	187.35	5,345	13,805
186.84	4,866	11,203	187.36	5,354	13,858
186.85	4,875	11,251	187.37	5,364	13,912
186.86	4,884	11,300	187.38	5,373	13,966
186.87	4,893	11,349	187.39	5,383	14,019
186.88	4,902	11,398	187.40	5,392	14,073
186.89	4,911	11,447	187.41	5,402	14,127
186.90	4,920	11,496	187.42	5,412	14,181
186.91	4,929	11,546	187.43	5,421	14,236
186.92	4,938	11,595	187.44	5,431	14,290
186.93	4,947	11,644	187.45	5,440	14,344

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.46	5,450	14,399
187.47	5,459	14,453
187.48	5,469	14,508
187.49	5,478	14,563
187.50	5,488	14,617
187.51	5,498	14,672
187.52	5,507	14,727
187.53	5,517	14,782
187.54	5,526	14,838
187.55	5,536	14,893
187.56	5,545	14,948
187.57	5,555	15,004
187.58	5,564	15,059
187.59	5,574	15,115
187.60	5,584	15,171
187.61	5,593	15,227
187.62	5,603	15,283
187.63	5,612	15,339
187.64	5,622	15,395
187.65	5,631	15,451
187.66	5,641	15,508
187.67	5,651	15,564
187.68	5,660	15,621
187.69	5,670	15,677
187.70	5,679	15,734
187.71	5,689	15,791
187.72	5,698	15,848
187.73	5,708	15,905
187.74	5,717	15,962
187.75	5,727	16,019
187.76	5,737	16,077
187.77	5,746	16,134
187.78	5,756	16,191
187.79	5,765	16,249
187.80	5,775	16,307
187.81	5,784	16,365
187.82	5,794	16,422
187.83	5,803	16,480
187.84	5,813	16,539
187.85	5,823	16,597
187.86	5,832	16,655
187.87	5,842	16,713
187.88	5,851	16,772
187.89	5,861	16,830
187.90	5,870	16,889
187.91	5,880	16,948
187.92	5,890	17,007
187.93	5,899	17,066
187.94	5,909	17,125
187.95	5,918	17,184
187.96	5,928	17,243
187.97	5,937	17,302
187.98	5,947	17,362
187.99	5,956	17,421
188.00	**5,966**	**17,481**

Summary for Pond B-34: Basin #34

Inflow Area = 1.779 ac, 23.66% Impervious, Inflow Depth = 1.99" for Future 2 yr event
Inflow = 3.66 cfs @ 12.18 hrs, Volume= 0.295 af
Outflow = 0.18 cfs @ 14.70 hrs, Volume= 0.244 af, Atten= 95%, Lag= 151.6 min
Primary = 0.18 cfs @ 14.70 hrs, Volume= 0.244 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 192.33' @ 14.70 hrs Surf.Area= 5,679 sf Storage= 8,236 cf

Plug-Flow detention time= 568.0 min calculated for 0.244 af (83% of inflow)
Center-of-Mass det. time= 490.1 min (1,305.0 - 814.9)

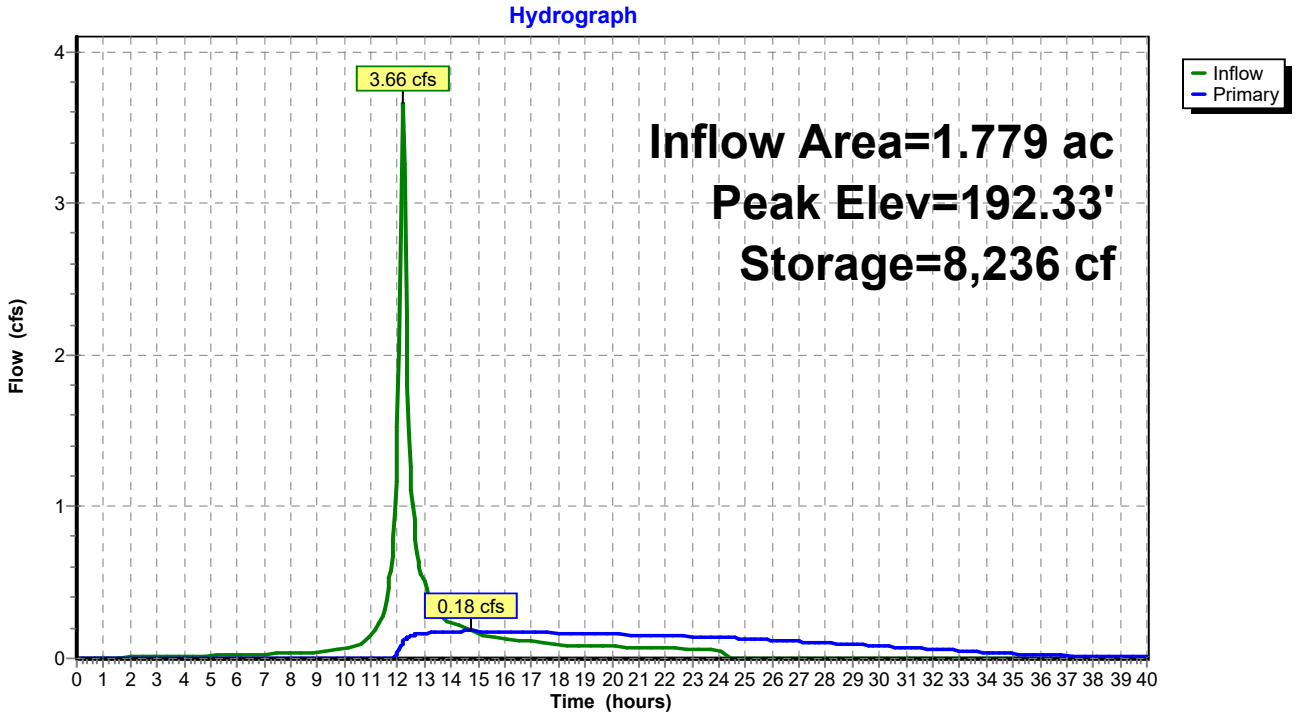
Volume	Invert	Avail.Storage	Storage Description
#1	190.30'	27,449 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.30	0	0	0
191.00	4,390	1,536	1,536
192.00	5,343	4,867	6,403
193.00	6,353	5,848	12,251
194.00	7,419	6,886	19,137
195.00	9,205	8,312	27,449

Device	Routing	Invert	Outlet Devices
#1	Primary	189.65'	**18.0" Round Culvert** L= 100.0' Ke= 0.500 Inlet / Outlet Invert= 189.65' / 189.15' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	191.09'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	192.33'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.25'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.18 cfs @ 14.70 hrs HW=192.33' (Free Discharge)
- **1=Culvert** (Passes 0.18 cfs of 10.08 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.18 cfs @ 5.14 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.00 cfs @ 0.17 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-34: Basin #34



Stage-Discharge for Pond B-34: Basin #34

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.30	0.00	190.82	0.00	191.34	0.06	191.86	0.13
190.31	0.00	190.83	0.00	191.35	0.06	191.87	0.13
190.32	0.00	190.84	0.00	191.36	0.07	191.88	0.14
190.33	0.00	190.85	0.00	191.37	0.07	191.89	0.14
190.34	0.00	190.86	0.00	191.38	0.07	191.90	0.14
190.35	0.00	190.87	0.00	191.39	0.07	191.91	0.14
190.36	0.00	190.88	0.00	191.40	0.07	191.92	0.14
190.37	0.00	190.89	0.00	191.41	0.08	191.93	0.14
190.38	0.00	190.90	0.00	191.42	0.08	191.94	0.14
190.39	0.00	190.91	0.00	191.43	0.08	191.95	0.14
190.40	0.00	190.92	0.00	191.44	0.08	191.96	0.14
190.41	0.00	190.93	0.00	191.45	0.08	191.97	0.14
190.42	0.00	190.94	0.00	191.46	0.08	191.98	0.15
190.43	0.00	190.95	0.00	191.47	0.09	191.99	0.15
190.44	0.00	190.96	0.00	191.48	0.09	192.00	0.15
190.45	0.00	190.97	0.00	191.49	0.09	192.01	0.15
190.46	0.00	190.98	0.00	191.50	0.09	192.02	0.15
190.47	0.00	190.99	0.00	191.51	0.09	192.03	0.15
190.48	0.00	191.00	0.00	191.52	0.09	192.04	0.15
190.49	0.00	191.01	0.00	191.53	0.10	192.05	0.15
190.50	0.00	191.02	0.00	191.54	0.10	192.06	0.15
190.51	0.00	191.03	0.00	191.55	0.10	192.07	0.15
190.52	0.00	191.04	0.00	191.56	0.10	192.08	0.15
190.53	0.00	191.05	0.00	191.57	0.10	192.09	0.16
190.54	0.00	191.06	0.00	191.58	0.10	192.10	0.16
190.55	0.00	191.07	0.00	191.59	0.10	192.11	0.16
190.56	0.00	191.08	0.00	191.60	0.10	192.12	0.16
190.57	0.00	191.09	0.00	191.61	0.11	192.13	0.16
190.58	0.00	191.10	0.00	191.62	0.11	192.14	0.16
190.59	0.00	191.11	0.00	191.63	0.11	192.15	0.16
190.60	0.00	191.12	0.00	191.64	0.11	192.16	0.16
190.61	0.00	191.13	0.00	191.65	0.11	192.17	0.16
190.62	0.00	191.14	0.00	191.66	0.11	192.18	0.16
190.63	0.00	191.15	0.01	191.67	0.11	192.19	0.16
190.64	0.00	191.16	0.01	191.68	0.11	192.20	0.16
190.65	0.00	191.17	0.01	191.69	0.12	192.21	0.17
190.66	0.00	191.18	0.01	191.70	0.12	192.22	0.17
190.67	0.00	191.19	0.02	191.71	0.12	192.23	0.17
190.68	0.00	191.20	0.02	191.72	0.12	192.24	0.17
190.69	0.00	191.21	0.02	191.73	0.12	192.25	0.17
190.70	0.00	191.22	0.03	191.74	0.12	192.26	0.17
190.71	0.00	191.23	0.03	191.75	0.12	192.27	0.17
190.72	0.00	191.24	0.03	191.76	0.12	192.28	0.17
190.73	0.00	191.25	0.04	191.77	0.12	192.29	0.17
190.74	0.00	191.26	0.04	191.78	0.13	192.30	0.17
190.75	0.00	191.27	0.05	191.79	0.13	192.31	0.17
190.76	0.00	191.28	0.05	191.80	0.13	192.32	0.17
190.77	0.00	191.29	0.05	191.81	0.13	192.33	0.17
190.78	0.00	191.30	0.05	191.82	0.13	192.34	0.19
190.79	0.00	191.31	0.06	191.83	0.13	192.35	0.21
190.80	0.00	191.32	0.06	191.84	0.13	192.36	0.25
190.81	0.00	191.33	0.06	191.85	0.13	192.37	0.28

Stage-Discharge for Pond B-34: Basin #34 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.38	0.32	192.90	5.68	193.42	12.94	193.94	14.10
192.39	0.37	192.91	5.83	193.43	12.96	193.95	14.12
192.40	0.42	192.92	5.97	193.44	12.98	193.96	14.14
192.41	0.48	192.93	6.11	193.45	13.01	193.97	14.16
192.42	0.53	192.94	6.26	193.46	13.03	193.98	14.18
192.43	0.59	192.95	6.41	193.47	13.05	193.99	14.21
192.44	0.66	192.96	6.55	193.48	13.08	194.00	14.23
192.45	0.72	192.97	6.70	193.49	13.10	194.01	14.25
192.46	0.79	192.98	6.85	193.50	13.12	194.02	14.27
192.47	0.87	192.99	7.00	193.51	13.14	194.03	14.29
192.48	0.94	193.00	7.15	193.52	13.17	194.04	14.31
192.49	1.02	193.01	7.31	193.53	13.19	194.05	14.33
192.50	1.10	193.02	7.46	193.54	13.21	194.06	14.35
192.51	1.18	193.03	7.61	193.55	13.24	194.07	14.37
192.52	1.26	193.04	7.77	193.56	13.26	194.08	14.40
192.53	1.35	193.05	7.93	193.57	13.28	194.09	14.42
192.54	1.44	193.06	8.08	193.58	13.30	194.10	14.44
192.55	1.53	193.07	8.24	193.59	13.33	194.11	14.46
192.56	1.62	193.08	8.40	193.60	13.35	194.12	14.48
192.57	1.71	193.09	8.56	193.61	13.37	194.13	14.50
192.58	1.81	193.10	8.72	193.62	13.40	194.14	14.52
192.59	1.91	193.11	8.89	193.63	13.42	194.15	14.54
192.60	2.00	193.12	9.05	193.64	13.44	194.16	14.56
192.61	2.11	193.13	9.21	193.65	13.46	194.17	14.58
192.62	2.21	193.14	9.38	193.66	13.49	194.18	14.60
192.63	2.31	193.15	9.54	193.67	13.51	194.19	14.62
192.64	2.42	193.16	9.71	193.68	13.53	194.20	14.64
192.65	2.53	193.17	9.88	193.69	13.55	194.21	14.67
192.66	2.64	193.18	10.05	193.70	13.57	194.22	14.69
192.67	2.75	193.19	10.22	193.71	13.60	194.23	14.71
192.68	2.86	193.20	10.38	193.72	13.62	194.24	14.73
192.69	2.98	193.21	10.56	193.73	13.64	194.25	14.75
192.70	3.09	193.22	10.73	193.74	13.66	194.26	14.89
192.71	3.21	193.23	10.90	193.75	13.69	194.27	15.12
192.72	3.33	193.24	11.07	193.76	13.71	194.28	15.42
192.73	3.45	193.25	11.25	193.77	13.73	194.29	15.77
192.74	3.57	193.26	11.42	193.78	13.75	194.30	16.16
192.75	3.69	193.27	11.60	193.79	13.77	194.31	16.59
192.76	3.81	193.28	11.77	193.80	13.80	194.32	17.06
192.77	3.94	193.29	11.95	193.81	13.82	194.33	17.57
192.78	4.07	193.30	12.13	193.82	13.84	194.34	18.10
192.79	4.19	193.31	12.31	193.83	13.86	194.35	18.67
192.80	4.32	193.32	12.49	193.84	13.88	194.36	19.26
192.81	4.45	193.33	12.67	193.85	13.90	194.37	19.88
192.82	4.59	193.34	12.75	193.86	13.93	194.38	20.53
192.83	4.72	193.35	12.77	193.87	13.95	194.39	21.20
192.84	4.85	193.36	12.80	193.88	13.97	194.40	21.90
192.85	4.99	193.37	12.82	193.89	13.99	194.41	22.62
192.86	5.12	193.38	12.84	193.90	14.01	194.42	23.36
192.87	5.26	193.39	12.87	193.91	14.03	194.43	24.12
192.88	5.40	193.40	12.89	193.92	14.06	194.44	24.91
192.89	5.54	193.41	12.91	193.93	14.08	194.45	25.72

Stage-Discharge for Pond B-34: Basin #34 (continued)

Elevation (feet)	Primary (cfs)
194.46	26.58
194.47	27.48
194.48	28.39
194.49	29.34
194.50	30.30
194.51	31.30
194.52	32.32
194.53	33.36
194.54	34.43
194.55	35.52
194.56	36.64
194.57	37.78
194.58	38.94
194.59	40.13
194.60	41.34
194.61	42.58
194.62	43.84
194.63	45.13
194.64	46.44
194.65	47.78
194.66	49.16
194.67	50.57
194.68	52.01
194.69	53.47
194.70	54.96
194.71	56.48
194.72	58.02
194.73	59.59
194.74	61.18
194.75	62.80
194.76	64.45
194.77	66.12
194.78	67.83
194.79	69.55
194.80	71.31
194.81	73.09
194.82	74.89
194.83	76.73
194.84	78.59
194.85	80.48
194.86	82.12
194.87	83.78
194.88	85.46
194.89	87.14
194.90	88.84
194.91	90.56
194.92	92.28
194.93	94.02
194.94	95.77
194.95	97.54
194.96	99.31
194.97	101.10
194.98	102.91
194.99	104.72
195.00	**106.55**

Stage-Area-Storage for Pond B-34: Basin #34

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.30	0	0	190.82	3,261	848
190.31	63	0	190.83	3,324	881
190.32	125	1	190.84	3,387	914
190.33	188	3	190.85	3,449	949
190.34	251	5	190.86	3,512	983
190.35	314	8	190.87	3,575	1,019
190.36	376	11	190.88	3,637	1,055
190.37	439	15	190.89	3,700	1,092
190.38	502	20	190.90	3,763	1,129
190.39	564	25	190.91	3,826	1,167
190.40	627	31	190.92	3,888	1,205
190.41	690	38	190.93	3,951	1,245
190.42	753	45	190.94	4,014	1,284
190.43	815	53	190.95	4,076	1,325
190.44	878	61	190.96	4,139	1,366
190.45	941	71	190.97	4,202	1,408
190.46	1,003	80	190.98	4,265	1,450
190.47	1,066	91	190.99	4,327	1,493
190.48	1,129	102	191.00	4,390	1,536
190.49	1,192	113	191.01	4,400	1,580
190.50	1,254	125	191.02	4,409	1,624
190.51	1,317	138	191.03	4,419	1,669
190.52	1,380	152	191.04	4,428	1,713
190.53	1,442	166	191.05	4,438	1,757
190.54	1,505	181	191.06	4,447	1,802
190.55	1,568	196	191.07	4,457	1,846
190.56	1,631	212	191.08	4,466	1,891
190.57	1,693	229	191.09	4,476	1,935
190.58	1,756	246	191.10	4,485	1,980
190.59	1,819	264	191.11	4,495	2,025
190.60	1,881	282	191.12	4,504	2,070
190.61	1,944	301	191.13	4,514	2,115
190.62	2,007	321	191.14	4,523	2,160
190.63	2,070	341	191.15	4,533	2,206
190.64	2,132	362	191.16	4,542	2,251
190.65	2,195	384	191.17	4,552	2,297
190.66	2,258	406	191.18	4,562	2,342
190.67	2,320	429	191.19	4,571	2,388
190.68	2,383	453	191.20	4,581	2,434
190.69	2,446	477	191.21	4,590	2,479
190.70	2,509	502	191.22	4,600	2,525
190.71	2,571	527	191.23	4,609	2,571
190.72	2,634	553	191.24	4,619	2,618
190.73	2,697	580	191.25	4,628	2,664
190.74	2,759	607	191.26	4,638	2,710
190.75	2,822	635	191.27	4,647	2,757
190.76	2,885	664	191.28	4,657	2,803
190.77	2,948	693	191.29	4,666	2,850
190.78	3,010	722	191.30	4,676	2,896
190.79	3,073	753	191.31	4,685	2,943
190.80	3,136	784	191.32	4,695	2,990
190.81	3,198	816	191.33	4,704	3,037

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.34	4,714	3,084	191.86	5,210	5,664
191.35	4,724	3,131	191.87	5,219	5,716
191.36	4,733	3,179	191.88	5,229	5,769
191.37	4,743	3,226	191.89	5,238	5,821
191.38	4,752	3,274	191.90	5,248	5,873
191.39	4,762	3,321	191.91	5,257	5,926
191.40	4,771	3,369	191.92	5,267	5,979
191.41	4,781	3,416	191.93	5,276	6,031
191.42	4,790	3,464	191.94	5,286	6,084
191.43	4,800	3,512	191.95	5,295	6,137
191.44	4,809	3,560	191.96	5,305	6,190
191.45	4,819	3,608	191.97	5,314	6,243
191.46	4,828	3,657	191.98	5,324	6,296
191.47	4,838	3,705	191.99	5,333	6,350
191.48	4,847	3,753	192.00	5,343	6,403
191.49	4,857	3,802	192.01	5,353	6,456
191.50	4,867	3,851	192.02	5,363	6,510
191.51	4,876	3,899	192.03	5,373	6,564
191.52	4,886	3,948	192.04	5,383	6,618
191.53	4,895	3,997	192.05	5,394	6,671
191.54	4,905	4,046	192.06	5,404	6,725
191.55	4,914	4,095	192.07	5,414	6,779
191.56	4,924	4,144	192.08	5,424	6,834
191.57	4,933	4,194	192.09	5,434	6,888
191.58	4,943	4,243	192.10	5,444	6,942
191.59	4,952	4,292	192.11	5,454	6,997
191.60	4,962	4,342	192.12	5,464	7,051
191.61	4,971	4,392	192.13	5,474	7,106
191.62	4,981	4,441	192.14	5,484	7,161
191.63	4,990	4,491	192.15	5,495	7,216
191.64	5,000	4,541	192.16	5,505	7,271
191.65	5,009	4,591	192.17	5,515	7,326
191.66	5,019	4,641	192.18	5,525	7,381
191.67	5,029	4,692	192.19	5,535	7,436
191.68	5,038	4,742	192.20	5,545	7,492
191.69	5,048	4,792	192.21	5,555	7,547
191.70	5,057	4,843	192.22	5,565	7,603
191.71	5,067	4,894	192.23	5,575	7,659
191.72	5,076	4,944	192.24	5,585	7,714
191.73	5,086	4,995	192.25	5,596	7,770
191.74	5,095	5,046	192.26	5,606	7,826
191.75	5,105	5,097	192.27	5,616	7,882
191.76	5,114	5,148	192.28	5,626	7,939
191.77	5,124	5,199	192.29	5,636	7,995
191.78	5,133	5,251	192.30	5,646	8,051
191.79	5,143	5,302	192.31	5,656	8,108
191.80	5,152	5,353	192.32	5,666	8,164
191.81	5,162	5,405	192.33	5,676	8,221
191.82	5,171	5,457	192.34	5,686	8,278
191.83	5,181	5,508	192.35	5,697	8,335
191.84	5,191	5,560	192.36	5,707	8,392
191.85	5,200	5,612	192.37	5,717	8,449

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.38	5,727	8,506	192.90	6,252	11,621
192.39	5,737	8,564	192.91	6,262	11,683
192.40	5,747	8,621	192.92	6,272	11,746
192.41	5,757	8,679	192.93	6,282	11,809
192.42	5,767	8,736	192.94	6,292	11,872
192.43	5,777	8,794	192.95	6,303	11,935
192.44	5,787	8,852	192.96	6,313	11,998
192.45	5,798	8,910	192.97	6,323	12,061
192.46	5,808	8,968	192.98	6,333	12,124
192.47	5,818	9,026	192.99	6,343	12,188
192.48	5,828	9,084	193.00	6,353	12,251
192.49	5,838	9,142	193.01	6,364	12,315
192.50	5,848	9,201	193.02	6,374	12,378
192.51	5,858	9,259	193.03	6,385	12,442
192.52	5,868	9,318	193.04	6,396	12,506
192.53	5,878	9,377	193.05	6,406	12,570
192.54	5,888	9,435	193.06	6,417	12,634
192.55	5,899	9,494	193.07	6,428	12,698
192.56	5,909	9,553	193.08	6,438	12,763
192.57	5,919	9,613	193.09	6,449	12,827
192.58	5,929	9,672	193.10	6,460	12,892
192.59	5,939	9,731	193.11	6,470	12,956
192.60	5,949	9,791	193.12	6,481	13,021
192.61	5,959	9,850	193.13	6,492	13,086
192.62	5,969	9,910	193.14	6,502	13,151
192.63	5,979	9,970	193.15	6,513	13,216
192.64	5,989	10,029	193.16	6,524	13,281
192.65	6,000	10,089	193.17	6,534	13,346
192.66	6,010	10,149	193.18	6,545	13,412
192.67	6,020	10,210	193.19	6,556	13,477
192.68	6,030	10,270	193.20	6,566	13,543
192.69	6,040	10,330	193.21	6,577	13,609
192.70	6,050	10,391	193.22	6,588	13,674
192.71	6,060	10,451	193.23	6,598	13,740
192.72	6,070	10,512	193.24	6,609	13,806
192.73	6,080	10,573	193.25	6,620	13,873
192.74	6,090	10,633	193.26	6,630	13,939
192.75	6,101	10,694	193.27	6,641	14,005
192.76	6,111	10,755	193.28	6,651	14,072
192.77	6,121	10,817	193.29	6,662	14,138
192.78	6,131	10,878	193.30	6,673	14,205
192.79	6,141	10,939	193.31	6,683	14,272
192.80	6,151	11,001	193.32	6,694	14,339
192.81	6,161	11,062	193.33	6,705	14,406
192.82	6,171	11,124	193.34	6,715	14,473
192.83	6,181	11,186	193.35	6,726	14,540
192.84	6,191	11,247	193.36	6,737	14,607
192.85	6,202	11,309	193.37	6,747	14,675
192.86	6,212	11,371	193.38	6,758	14,742
192.87	6,222	11,434	193.39	6,769	14,810
192.88	6,232	11,496	193.40	6,779	14,877
192.89	6,242	11,558	193.41	6,790	14,945

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.42	6,801	15,013
193.43	6,811	15,081
193.44	6,822	15,150
193.45	6,833	15,218
193.46	6,843	15,286
193.47	6,854	15,355
193.48	6,865	15,423
193.49	6,875	15,492
193.50	6,886	15,561
193.51	6,897	15,630
193.52	6,907	15,699
193.53	6,918	15,768
193.54	6,929	15,837
193.55	6,939	15,906
193.56	6,950	15,976
193.57	6,961	16,045
193.58	6,971	16,115
193.59	6,982	16,185
193.60	6,993	16,255
193.61	7,003	16,325
193.62	7,014	16,395
193.63	7,025	16,465
193.64	7,035	16,535
193.65	7,046	16,606
193.66	7,057	16,676
193.67	7,067	16,747
193.68	7,078	16,817
193.69	7,089	16,888
193.70	7,099	16,959
193.71	7,110	17,030
193.72	7,121	17,101
193.73	7,131	17,173
193.74	7,142	17,244
193.75	7,153	17,316
193.76	7,163	17,387
193.77	7,174	17,459
193.78	7,184	17,531
193.79	7,195	17,603
193.80	7,206	17,675
193.81	7,216	17,747
193.82	7,227	17,819
193.83	7,238	17,891
193.84	7,248	17,964
193.85	7,259	18,036
193.86	7,270	18,109
193.87	7,280	18,182
193.88	7,291	18,254
193.89	7,302	18,327
193.90	7,312	18,400
193.91	7,323	18,474
193.92	7,334	18,547
193.93	7,344	18,620
193.94	7,355	18,694
193.95	7,366	18,767
193.96	7,376	18,841
193.97	7,387	18,915
193.98	7,398	18,989
193.99	7,408	19,063
194.00	7,419	19,137
194.01	7,437	19,211
194.02	7,455	19,286
194.03	7,473	19,360
194.04	7,490	19,435
194.05	7,508	19,510
194.06	7,526	19,585
194.07	7,544	19,661
194.08	7,562	19,736
194.09	7,580	19,812
194.10	7,598	19,888
194.11	7,615	19,964
194.12	7,633	20,040
194.13	7,651	20,117
194.14	7,669	20,193
194.15	7,687	20,270
194.16	7,705	20,347
194.17	7,723	20,424
194.18	7,740	20,501
194.19	7,758	20,579
194.20	7,776	20,657
194.21	7,794	20,734
194.22	7,812	20,812
194.23	7,830	20,891
194.24	7,848	20,969
194.25	7,866	21,048
194.26	7,883	21,126
194.27	7,901	21,205
194.28	7,919	21,284
194.29	7,937	21,364
194.30	7,955	21,443
194.31	7,973	21,523
194.32	7,991	21,603
194.33	8,008	21,683
194.34	8,026	21,763
194.35	8,044	21,843
194.36	8,062	21,924
194.37	8,080	22,004
194.38	8,098	22,085
194.39	8,116	22,166
194.40	8,133	22,247
194.41	8,151	22,329
194.42	8,169	22,411
194.43	8,187	22,492
194.44	8,205	22,574
194.45	8,223	22,656

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.46	8,241	22,739
194.47	8,258	22,821
194.48	8,276	22,904
194.49	8,294	22,987
194.50	8,312	23,070
194.51	8,330	23,153
194.52	8,348	23,236
194.53	8,366	23,320
194.54	8,383	23,404
194.55	8,401	23,488
194.56	8,419	23,572
194.57	8,437	23,656
194.58	8,455	23,740
194.59	8,473	23,825
194.60	8,491	23,910
194.61	8,508	23,995
194.62	8,526	24,080
194.63	8,544	24,165
194.64	8,562	24,251
194.65	8,580	24,337
194.66	8,598	24,423
194.67	8,616	24,509
194.68	8,633	24,595
194.69	8,651	24,681
194.70	8,669	24,768
194.71	8,687	24,855
194.72	8,705	24,942
194.73	8,723	25,029
194.74	8,741	25,116
194.75	8,759	25,204
194.76	8,776	25,291
194.77	8,794	25,379
194.78	8,812	25,467
194.79	8,830	25,555
194.80	8,848	25,644
194.81	8,866	25,732
194.82	8,884	25,821
194.83	8,901	25,910
194.84	8,919	25,999
194.85	8,937	26,088
194.86	8,955	26,178
194.87	8,973	26,267
194.88	8,991	26,357
194.89	9,009	26,447
194.90	9,026	26,537
194.91	9,044	26,628
194.92	9,062	26,718
194.93	9,080	26,809
194.94	9,098	26,900
194.95	9,116	26,991
194.96	9,134	27,082
194.97	9,151	27,174
194.98	9,169	27,265
194.99	9,187	27,357
195.00	**9,205**	**27,449**

Summary for Pond B-35: Basin #35

Inflow Area = 1.957 ac, 66.79% Impervious, Inflow Depth = 2.91" for Future 2 yr event
Inflow = 5.61 cfs @ 12.17 hrs, Volume= 0.474 af
Outflow = 0.51 cfs @ 13.27 hrs, Volume= 0.356 af, Atten= 91%, Lag= 65.7 min
Primary = 0.51 cfs @ 13.27 hrs, Volume= 0.356 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 193.05' @ 13.27 hrs Surf.Area= 5,770 sf Storage= 12,944 cf

Plug-Flow detention time= 361.7 min calculated for 0.356 af (75% of inflow)
Center-of-Mass det. time= 270.2 min (1,044.7 - 774.5)

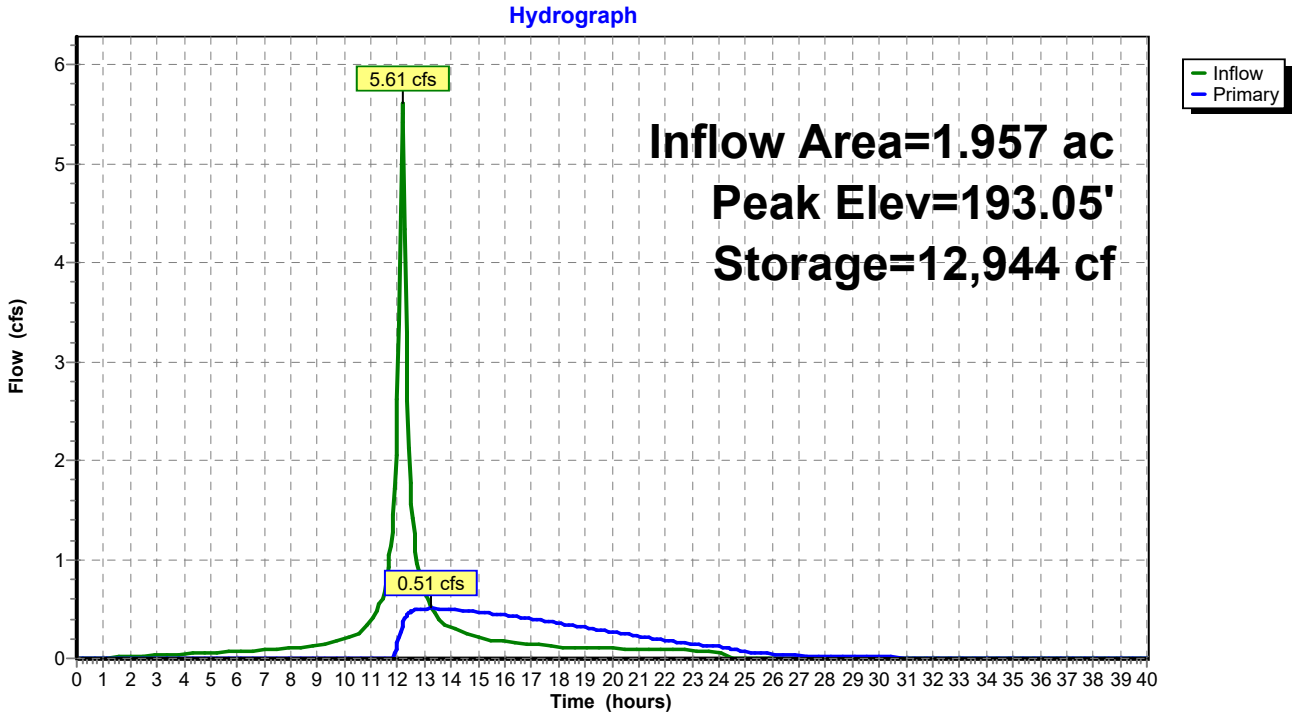
Volume	Invert	Avail.Storage	Storage Description
#1	189.80'	26,431 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
189.80	0	0	0
190.00	2,647	265	265
191.00	3,593	3,120	3,385
192.00	4,618	4,106	7,490
193.00	5,711	5,165	12,655
194.00	6,871	6,291	18,946
195.00	8,099	7,485	26,431

Device	Routing	Invert	Outlet Devices
#1	Primary	189.80'	**18.0" Round Culvert** L= 103.0' Ke= 0.500 Inlet / Outlet Invert= 189.80' / 189.30' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	191.44'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.05'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.50'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.50 cfs @ 13.27 hrs HW=193.05' (Free Discharge)
- **1=Culvert** (Passes 0.50 cfs of 11.57 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.50 cfs @ 5.79 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.00 cfs @ 0.06 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-35: Basin #35



Stage-Discharge for Pond B-35: Basin #35

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
189.80	0.00	190.32	0.00	190.84	0.00	191.36	0.00
189.81	0.00	190.33	0.00	190.85	0.00	191.37	0.00
189.82	0.00	190.34	0.00	190.86	0.00	191.38	0.00
189.83	0.00	190.35	0.00	190.87	0.00	191.39	0.00
189.84	0.00	190.36	0.00	190.88	0.00	191.40	0.00
189.85	0.00	190.37	0.00	190.89	0.00	191.41	0.00
189.86	0.00	190.38	0.00	190.90	0.00	191.42	0.00
189.87	0.00	190.39	0.00	190.91	0.00	191.43	0.00
189.88	0.00	190.40	0.00	190.92	0.00	191.44	0.00
189.89	0.00	190.41	0.00	190.93	0.00	191.45	0.00
189.90	0.00	190.42	0.00	190.94	0.00	191.46	0.00
189.91	0.00	190.43	0.00	190.95	0.00	191.47	0.00
189.92	0.00	190.44	0.00	190.96	0.00	191.48	0.00
189.93	0.00	190.45	0.00	190.97	0.00	191.49	0.01
189.94	0.00	190.46	0.00	190.98	0.00	191.50	0.01
189.95	0.00	190.47	0.00	190.99	0.00	191.51	0.01
189.96	0.00	190.48	0.00	191.00	0.00	191.52	0.02
189.97	0.00	190.49	0.00	191.01	0.00	191.53	0.02
189.98	0.00	190.50	0.00	191.02	0.00	191.54	0.02
189.99	0.00	190.51	0.00	191.03	0.00	191.55	0.03
190.00	0.00	190.52	0.00	191.04	0.00	191.56	0.03
190.01	0.00	190.53	0.00	191.05	0.00	191.57	0.04
190.02	0.00	190.54	0.00	191.06	0.00	191.58	0.04
190.03	0.00	190.55	0.00	191.07	0.00	191.59	0.05
190.04	0.00	190.56	0.00	191.08	0.00	191.60	0.06
190.05	0.00	190.57	0.00	191.09	0.00	191.61	0.06
190.06	0.00	190.58	0.00	191.10	0.00	191.62	0.07
190.07	0.00	190.59	0.00	191.11	0.00	191.63	0.08
190.08	0.00	190.60	0.00	191.12	0.00	191.64	0.08
190.09	0.00	190.61	0.00	191.13	0.00	191.65	0.09
190.10	0.00	190.62	0.00	191.14	0.00	191.66	0.10
190.11	0.00	190.63	0.00	191.15	0.00	191.67	0.10
190.12	0.00	190.64	0.00	191.16	0.00	191.68	0.11
190.13	0.00	190.65	0.00	191.17	0.00	191.69	0.12
190.14	0.00	190.66	0.00	191.18	0.00	191.70	0.13
190.15	0.00	190.67	0.00	191.19	0.00	191.71	0.13
190.16	0.00	190.68	0.00	191.20	0.00	191.72	0.14
190.17	0.00	190.69	0.00	191.21	0.00	191.73	0.15
190.18	0.00	190.70	0.00	191.22	0.00	191.74	0.15
190.19	0.00	190.71	0.00	191.23	0.00	191.75	0.16
190.20	0.00	190.72	0.00	191.24	0.00	191.76	0.17
190.21	0.00	190.73	0.00	191.25	0.00	191.77	0.17
190.22	0.00	190.74	0.00	191.26	0.00	191.78	0.17
190.23	0.00	190.75	0.00	191.27	0.00	191.79	0.18
190.24	0.00	190.76	0.00	191.28	0.00	191.80	0.18
190.25	0.00	190.77	0.00	191.29	0.00	191.81	0.19
190.26	0.00	190.78	0.00	191.30	0.00	191.82	0.19
190.27	0.00	190.79	0.00	191.31	0.00	191.83	0.20
190.28	0.00	190.80	0.00	191.32	0.00	191.84	0.20
190.29	0.00	190.81	0.00	191.33	0.00	191.85	0.21
190.30	0.00	190.82	0.00	191.34	0.00	191.86	0.21
190.31	0.00	190.83	0.00	191.35	0.00	191.87	0.22

Stage-Discharge for Pond B-35: Basin #35 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
191.88	0.22	192.40	0.37	192.92	0.48	193.44	3.69
191.89	0.22	192.41	0.38	192.93	0.48	193.45	3.81
191.90	0.23	192.42	0.38	192.94	0.49	193.46	3.94
191.91	0.23	192.43	0.38	192.95	0.49	193.47	4.06
191.92	0.24	192.44	0.38	192.96	0.49	193.48	4.18
191.93	0.24	192.45	0.39	192.97	0.49	193.49	4.31
191.94	0.24	192.46	0.39	192.98	0.49	193.50	4.44
191.95	0.25	192.47	0.39	192.99	0.49	193.51	4.57
191.96	0.25	192.48	0.39	193.00	0.50	193.52	4.70
191.97	0.25	192.49	0.39	193.01	0.50	193.53	4.83
191.98	0.26	192.50	0.40	193.02	0.50	193.54	4.96
191.99	0.26	192.51	0.40	193.03	0.50	193.55	5.09
192.00	0.26	192.52	0.40	193.04	0.50	193.56	5.23
192.01	0.27	192.53	0.40	193.05	0.50	193.57	5.37
192.02	0.27	192.54	0.41	193.06	0.52	193.58	5.50
192.03	0.27	192.55	0.41	193.07	0.55	193.59	5.64
192.04	0.28	192.56	0.41	193.08	0.58	193.60	5.78
192.05	0.28	192.57	0.41	193.09	0.62	193.61	5.92
192.06	0.28	192.58	0.41	193.10	0.66	193.62	6.06
192.07	0.29	192.59	0.42	193.11	0.71	193.63	6.21
192.08	0.29	192.60	0.42	193.12	0.76	193.64	6.35
192.09	0.29	192.61	0.42	193.13	0.81	193.65	6.50
192.10	0.30	192.62	0.42	193.14	0.87	193.66	6.64
192.11	0.30	192.63	0.43	193.15	0.93	193.67	6.79
192.12	0.30	192.64	0.43	193.16	1.00	193.68	6.94
192.13	0.30	192.65	0.43	193.17	1.07	193.69	7.09
192.14	0.31	192.66	0.43	193.18	1.14	193.70	7.24
192.15	0.31	192.67	0.43	193.19	1.21	193.71	7.39
192.16	0.31	192.68	0.44	193.20	1.28	193.72	7.54
192.17	0.32	192.69	0.44	193.21	1.36	193.73	7.70
192.18	0.32	192.70	0.44	193.22	1.44	193.74	7.85
192.19	0.32	192.71	0.44	193.23	1.53	193.75	8.01
192.20	0.32	192.72	0.44	193.24	1.61	193.76	8.16
192.21	0.33	192.73	0.45	193.25	1.70	193.77	8.32
192.22	0.33	192.74	0.45	193.26	1.79	193.78	8.48
192.23	0.33	192.75	0.45	193.27	1.88	193.79	8.64
192.24	0.33	192.76	0.45	193.28	1.97	193.80	8.80
192.25	0.34	192.77	0.45	193.29	2.06	193.81	8.96
192.26	0.34	192.78	0.46	193.30	2.16	193.82	9.12
192.27	0.34	192.79	0.46	193.31	2.26	193.83	9.29
192.28	0.34	192.80	0.46	193.32	2.36	193.84	9.45
192.29	0.35	192.81	0.46	193.33	2.46	193.85	9.61
192.30	0.35	192.82	0.46	193.34	2.57	193.86	9.78
192.31	0.35	192.83	0.46	193.35	2.67	193.87	9.95
192.32	0.35	192.84	0.47	193.36	2.78	193.88	10.11
192.33	0.36	192.85	0.47	193.37	2.89	193.89	10.28
192.34	0.36	192.86	0.47	193.38	3.00	193.90	10.45
192.35	0.36	192.87	0.47	193.39	3.11	193.91	10.62
192.36	0.36	192.88	0.47	193.40	3.22	193.92	10.79
192.37	0.37	192.89	0.48	193.41	3.34	193.93	10.96
192.38	0.37	192.90	0.48	193.42	3.46	193.94	11.14
192.39	0.37	192.91	0.48	193.43	3.57	193.95	11.31

Stage-Discharge for Pond B-35: Basin #35 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.96	11.48	194.48	14.79	195.00	**62.86**
193.97	11.66	194.49	14.81		
193.98	11.83	194.50	14.83		
193.99	12.01	194.51	14.97		
194.00	12.19	194.52	15.20		
194.01	12.36	194.53	15.50		
194.02	12.54	194.54	15.85		
194.03	12.72	194.55	16.24		
194.04	12.90	194.56	16.67		
194.05	13.08	194.57	17.14		
194.06	13.26	194.58	17.65		
194.07	13.45	194.59	18.18		
194.08	13.63	194.60	18.75		
194.09	13.81	194.61	19.34		
194.10	14.00	194.62	19.96		
194.11	14.03	194.63	20.61		
194.12	14.05	194.64	21.28		
194.13	14.07	194.65	21.97		
194.14	14.09	194.66	22.69		
194.15	14.11	194.67	23.43		
194.16	14.13	194.68	24.20		
194.17	14.15	194.69	24.98		
194.18	14.17	194.70	25.79		
194.19	14.19	194.71	26.66		
194.20	14.22	194.72	27.55		
194.21	14.24	194.73	28.47		
194.22	14.26	194.74	29.41		
194.23	14.28	194.75	30.38		
194.24	14.30	194.76	31.37		
194.25	14.32	194.77	32.39		
194.26	14.34	194.78	33.43		
194.27	14.36	194.79	34.50		
194.28	14.38	194.80	35.59		
194.29	14.40	194.81	36.70		
194.30	14.42	194.82	37.84		
194.31	14.44	194.83	39.01		
194.32	14.46	194.84	40.20		
194.33	14.48	194.85	41.41		
194.34	14.51	194.86	42.65		
194.35	14.53	194.87	43.91		
194.36	14.55	194.88	45.20		
194.37	14.57	194.89	46.51		
194.38	14.59	194.90	47.84		
194.39	14.61	194.91	49.23		
194.40	14.63	194.92	50.64		
194.41	14.65	194.93	52.07		
194.42	14.67	194.94	53.54		
194.43	14.69	194.95	55.02		
194.44	14.71	194.96	56.54		
194.45	14.73	194.97	58.08		
194.46	14.75	194.98	59.65		
194.47	14.77	194.99	61.24		

Stage-Area-Storage for Pond B-35: Basin #35

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
189.80	0	0	190.32	2,950	1,160
189.81	132	1	190.33	2,959	1,190
189.82	265	3	190.34	2,969	1,219
189.83	397	6	190.35	2,978	1,249
189.84	529	11	190.36	2,988	1,279
189.85	662	17	190.37	2,997	1,309
189.86	794	24	190.38	3,006	1,339
189.87	926	32	190.39	3,016	1,369
189.88	1,059	42	190.40	3,025	1,399
189.89	1,191	54	190.41	3,035	1,429
189.90	1,324	66	190.42	3,044	1,460
189.91	1,456	80	190.43	3,054	1,490
189.92	1,588	95	190.44	3,063	1,521
189.93	1,721	112	190.45	3,073	1,552
189.94	1,853	130	190.46	3,082	1,582
189.95	1,985	149	190.47	3,092	1,613
189.96	2,118	169	190.48	3,101	1,644
189.97	2,250	191	190.49	3,111	1,675
189.98	2,382	214	190.50	3,120	1,706
189.99	2,515	239	190.51	3,129	1,738
190.00	2,647	265	190.52	3,139	1,769
190.01	2,656	291	190.53	3,148	1,800
190.02	2,666	318	190.54	3,158	1,832
190.03	2,675	345	190.55	3,167	1,864
190.04	2,685	371	190.56	3,177	1,895
190.05	2,694	398	190.57	3,186	1,927
190.06	2,704	425	190.58	3,196	1,959
190.07	2,713	452	190.59	3,205	1,991
190.08	2,723	479	190.60	3,215	2,023
190.09	2,732	507	190.61	3,224	2,055
190.10	2,742	534	190.62	3,234	2,088
190.11	2,751	562	190.63	3,243	2,120
190.12	2,761	589	190.64	3,252	2,153
190.13	2,770	617	190.65	3,262	2,185
190.14	2,779	645	190.66	3,271	2,218
190.15	2,789	672	190.67	3,281	2,251
190.16	2,798	700	190.68	3,290	2,283
190.17	2,808	728	190.69	3,300	2,316
190.18	2,817	756	190.70	3,309	2,349
190.19	2,827	785	190.71	3,319	2,383
190.20	2,836	813	190.72	3,328	2,416
190.21	2,846	841	190.73	3,338	2,449
190.22	2,855	870	190.74	3,347	2,482
190.23	2,865	899	190.75	3,357	2,516
190.24	2,874	927	190.76	3,366	2,550
190.25	2,884	956	190.77	3,375	2,583
190.26	2,893	985	190.78	3,385	2,617
190.27	2,902	1,014	190.79	3,394	2,651
190.28	2,912	1,043	190.80	3,404	2,685
190.29	2,921	1,072	190.81	3,413	2,719
190.30	2,931	1,101	190.82	3,423	2,753
190.31	2,940	1,131	190.83	3,432	2,788

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.84	3,442	2,822	191.36	3,962	4,745
190.85	3,451	2,856	191.37	3,972	4,784
190.86	3,461	2,891	191.38	3,983	4,824
190.87	3,470	2,926	191.39	3,993	4,864
190.88	3,479	2,960	191.40	4,003	4,904
190.89	3,489	2,995	191.41	4,013	4,944
190.90	3,498	3,030	191.42	4,024	4,984
190.91	3,508	3,065	191.43	4,034	5,024
190.92	3,517	3,100	191.44	4,044	5,065
190.93	3,527	3,136	191.45	4,054	5,105
190.94	3,536	3,171	191.46	4,065	5,146
190.95	3,546	3,206	191.47	4,075	5,187
190.96	3,555	3,242	191.48	4,085	5,227
190.97	3,565	3,277	191.49	4,095	5,268
190.98	3,574	3,313	191.50	4,106	5,309
190.99	3,584	3,349	191.51	4,116	5,350
191.00	3,593	3,385	191.52	4,126	5,392
191.01	3,603	3,421	191.53	4,136	5,433
191.02	3,614	3,457	191.54	4,147	5,474
191.03	3,624	3,493	191.55	4,157	5,516
191.04	3,634	3,529	191.56	4,167	5,557
191.05	3,644	3,566	191.57	4,177	5,599
191.06	3,655	3,602	191.58	4,188	5,641
191.07	3,665	3,639	191.59	4,198	5,683
191.08	3,675	3,675	191.60	4,208	5,725
191.09	3,685	3,712	191.61	4,218	5,767
191.10	3,696	3,749	191.62	4,229	5,809
191.11	3,706	3,786	191.63	4,239	5,852
191.12	3,716	3,823	191.64	4,249	5,894
191.13	3,726	3,860	191.65	4,259	5,937
191.14	3,737	3,898	191.66	4,270	5,979
191.15	3,747	3,935	191.67	4,280	6,022
191.16	3,757	3,973	191.68	4,290	6,065
191.17	3,767	4,010	191.69	4,300	6,108
191.18	3,778	4,048	191.70	4,311	6,151
191.19	3,788	4,086	191.71	4,321	6,194
191.20	3,798	4,124	191.72	4,331	6,237
191.21	3,808	4,162	191.73	4,341	6,281
191.22	3,818	4,200	191.74	4,352	6,324
191.23	3,829	4,238	191.75	4,362	6,368
191.24	3,839	4,277	191.76	4,372	6,411
191.25	3,849	4,315	191.77	4,382	6,455
191.26	3,860	4,354	191.78	4,393	6,499
191.27	3,870	4,392	191.79	4,403	6,543
191.28	3,880	4,431	191.80	4,413	6,587
191.29	3,890	4,470	191.81	4,423	6,631
191.30	3,901	4,509	191.82	4,434	6,676
191.31	3,911	4,548	191.83	4,444	6,720
191.32	3,921	4,587	191.84	4,454	6,764
191.33	3,931	4,626	191.85	4,464	6,809
191.34	3,942	4,666	191.86	4,475	6,854
191.35	3,952	4,705	191.87	4,485	6,899

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.88	4,495	6,943	192.40	5,055	9,425
191.89	4,505	6,988	192.41	5,066	9,475
191.90	4,516	7,034	192.42	5,077	9,526
191.91	4,526	7,079	192.43	5,088	9,577
191.92	4,536	7,124	192.44	5,099	9,628
191.93	4,546	7,169	192.45	5,110	9,679
191.94	4,556	7,215	192.46	5,121	9,730
191.95	4,567	7,261	192.47	5,132	9,781
191.96	4,577	7,306	192.48	5,143	9,833
191.97	4,587	7,352	192.49	5,154	9,884
191.98	4,598	7,398	192.50	5,165	9,936
191.99	4,608	7,444	192.51	5,175	9,988
192.00	4,618	7,490	192.52	5,186	10,039
192.01	4,629	7,536	192.53	5,197	10,091
192.02	4,640	7,583	192.54	5,208	10,143
192.03	4,651	7,629	192.55	5,219	10,195
192.04	4,662	7,676	192.56	5,230	10,248
192.05	4,673	7,722	192.57	5,241	10,300
192.06	4,684	7,769	192.58	5,252	10,352
192.07	4,695	7,816	192.59	5,263	10,405
192.08	4,705	7,863	192.60	5,274	10,458
192.09	4,716	7,910	192.61	5,285	10,511
192.10	4,727	7,957	192.62	5,296	10,563
192.11	4,738	8,005	192.63	5,307	10,616
192.12	4,749	8,052	192.64	5,318	10,670
192.13	4,760	8,100	192.65	5,328	10,723
192.14	4,771	8,147	192.66	5,339	10,776
192.15	4,782	8,195	192.67	5,350	10,830
192.16	4,793	8,243	192.68	5,361	10,883
192.17	4,804	8,291	192.69	5,372	10,937
192.18	4,815	8,339	192.70	5,383	10,991
192.19	4,826	8,387	192.71	5,394	11,044
192.20	4,837	8,436	192.72	5,405	11,098
192.21	4,848	8,484	192.73	5,416	11,153
192.22	4,858	8,533	192.74	5,427	11,207
192.23	4,869	8,581	192.75	5,438	11,261
192.24	4,880	8,630	192.76	5,449	11,316
192.25	4,891	8,679	192.77	5,460	11,370
192.26	4,902	8,728	192.78	5,471	11,425
192.27	4,913	8,777	192.79	5,481	11,479
192.28	4,924	8,826	192.80	5,492	11,534
192.29	4,935	8,875	192.81	5,503	11,589
192.30	4,946	8,925	192.82	5,514	11,644
192.31	4,957	8,974	192.83	5,525	11,700
192.32	4,968	9,024	192.84	5,536	11,755
192.33	4,979	9,074	192.85	5,547	11,810
192.34	4,990	9,123	192.86	5,558	11,866
192.35	5,001	9,173	192.87	5,569	11,922
192.36	5,011	9,224	192.88	5,580	11,977
192.37	5,022	9,274	192.89	5,591	12,033
192.38	5,033	9,324	192.90	5,602	12,089
192.39	5,044	9,374	192.91	5,613	12,145

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.92	5,624	12,201	193.44	6,221	15,280
192.93	5,634	12,258	193.45	6,233	15,342
192.94	5,645	12,314	193.46	6,245	15,404
192.95	5,656	12,371	193.47	6,256	15,467
192.96	5,667	12,427	193.48	6,268	15,530
192.97	5,678	12,484	193.49	6,279	15,592
192.98	5,689	12,541	193.50	6,291	15,655
192.99	5,700	12,598	193.51	6,303	15,718
193.00	5,711	12,655	193.52	6,314	15,781
193.01	5,723	12,712	193.53	6,326	15,844
193.02	5,734	12,769	193.54	6,337	15,908
193.03	5,746	12,827	193.55	6,349	15,971
193.04	5,757	12,884	193.56	6,361	16,035
193.05	5,769	12,942	193.57	6,372	16,098
193.06	5,781	12,999	193.58	6,384	16,162
193.07	5,792	13,057	193.59	6,395	16,226
193.08	5,804	13,115	193.60	6,407	16,290
193.09	5,815	13,173	193.61	6,419	16,354
193.10	5,827	13,232	193.62	6,430	16,418
193.11	5,839	13,290	193.63	6,442	16,483
193.12	5,850	13,348	193.64	6,453	16,547
193.13	5,862	13,407	193.65	6,465	16,612
193.14	5,873	13,466	193.66	6,477	16,677
193.15	5,885	13,524	193.67	6,488	16,741
193.16	5,897	13,583	193.68	6,500	16,806
193.17	5,908	13,642	193.69	6,511	16,871
193.18	5,920	13,701	193.70	6,523	16,937
193.19	5,931	13,761	193.71	6,535	17,002
193.20	5,943	13,820	193.72	6,546	17,067
193.21	5,955	13,880	193.73	6,558	17,133
193.22	5,966	13,939	193.74	6,569	17,198
193.23	5,978	13,999	193.75	6,581	17,264
193.24	5,989	14,059	193.76	6,593	17,330
193.25	6,001	14,119	193.77	6,604	17,396
193.26	6,013	14,179	193.78	6,616	17,462
193.27	6,024	14,239	193.79	6,627	17,528
193.28	6,036	14,299	193.80	6,639	17,595
193.29	6,047	14,360	193.81	6,651	17,661
193.30	6,059	14,420	193.82	6,662	17,728
193.31	6,071	14,481	193.83	6,674	17,794
193.32	6,082	14,542	193.84	6,685	17,861
193.33	6,094	14,602	193.85	6,697	17,928
193.34	6,105	14,663	193.86	6,709	17,995
193.35	6,117	14,725	193.87	6,720	18,062
193.36	6,129	14,786	193.88	6,732	18,130
193.37	6,140	14,847	193.89	6,743	18,197
193.38	6,152	14,909	193.90	6,755	18,264
193.39	6,163	14,970	193.91	6,767	18,332
193.40	6,175	15,032	193.92	6,778	18,400
193.41	6,187	15,094	193.93	6,790	18,468
193.42	6,198	15,156	193.94	6,801	18,536
193.43	6,210	15,218	193.95	6,813	18,604

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.96	6,825	18,672	194.48	7,460	22,385
193.97	6,836	18,740	194.49	7,473	22,460
193.98	6,848	18,809	194.50	7,485	22,535
193.99	6,859	18,877	194.51	7,497	22,610
194.00	6,871	18,946	194.52	7,510	22,685
194.01	6,883	19,014	194.53	7,522	22,760
194.02	6,896	19,083	194.54	7,534	22,835
194.03	6,908	19,152	194.55	7,546	22,910
194.04	6,920	19,222	194.56	7,559	22,986
194.05	6,932	19,291	194.57	7,571	23,062
194.06	6,945	19,360	194.58	7,583	23,137
194.07	6,957	19,430	194.59	7,596	23,213
194.08	6,969	19,499	194.60	7,608	23,289
194.09	6,982	19,569	194.61	7,620	23,365
194.10	6,994	19,639	194.62	7,632	23,442
194.11	7,006	19,709	194.63	7,645	23,518
194.12	7,018	19,779	194.64	7,657	23,595
194.13	7,031	19,849	194.65	7,669	23,671
194.14	7,043	19,920	194.66	7,681	23,748
194.15	7,055	19,990	194.67	7,694	23,825
194.16	7,067	20,061	194.68	7,706	23,902
194.17	7,080	20,132	194.69	7,718	23,979
194.18	7,092	20,202	194.70	7,731	24,056
194.19	7,104	20,273	194.71	7,743	24,134
194.20	7,117	20,344	194.72	7,755	24,211
194.21	7,129	20,416	194.73	7,767	24,289
194.22	7,141	20,487	194.74	7,780	24,366
194.23	7,153	20,559	194.75	7,792	24,444
194.24	7,166	20,630	194.76	7,804	24,522
194.25	7,178	20,702	194.77	7,817	24,600
194.26	7,190	20,774	194.78	7,829	24,679
194.27	7,203	20,846	194.79	7,841	24,757
194.28	7,215	20,918	194.80	7,853	24,835
194.29	7,227	20,990	194.81	7,866	24,914
194.30	7,239	21,062	194.82	7,878	24,993
194.31	7,252	21,135	194.83	7,890	25,072
194.32	7,264	21,207	194.84	7,903	25,151
194.33	7,276	21,280	194.85	7,915	25,230
194.34	7,289	21,353	194.86	7,927	25,309
194.35	7,301	21,426	194.87	7,939	25,388
194.36	7,313	21,499	194.88	7,952	25,468
194.37	7,325	21,572	194.89	7,964	25,547
194.38	7,338	21,645	194.90	7,976	25,627
194.39	7,350	21,719	194.91	7,988	25,707
194.40	7,362	21,792	194.92	8,001	25,787
194.41	7,374	21,866	194.93	8,013	25,867
194.42	7,387	21,940	194.94	8,025	25,947
194.43	7,399	22,014	194.95	8,038	26,027
194.44	7,411	22,088	194.96	8,050	26,108
194.45	7,424	22,162	194.97	8,062	26,188
194.46	7,436	22,236	194.98	8,074	26,269
194.47	7,448	22,311	194.99	8,087	26,350

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.00	**8,099**	**26,431**

Summary for Pond B-36A: Basin #36A

Inflow Area = 2.377 ac, 40.60% Impervious, Inflow Depth = 2.35" for Future 2 yr event
Inflow = 5.65 cfs @ 12.17 hrs, Volume= 0.466 af
Outflow = 1.00 cfs @ 12.72 hrs, Volume= 0.372 af, Atten= 82%, Lag= 32.6 min
Primary = 1.00 cfs @ 12.72 hrs, Volume= 0.372 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 194.11' @ 12.72 hrs Surf.Area= 4,509 sf Storage= 11,137 cf

Plug-Flow detention time= 293.3 min calculated for 0.372 af (80% of inflow)
Center-of-Mass det. time= 209.4 min (1,004.7 - 795.3)

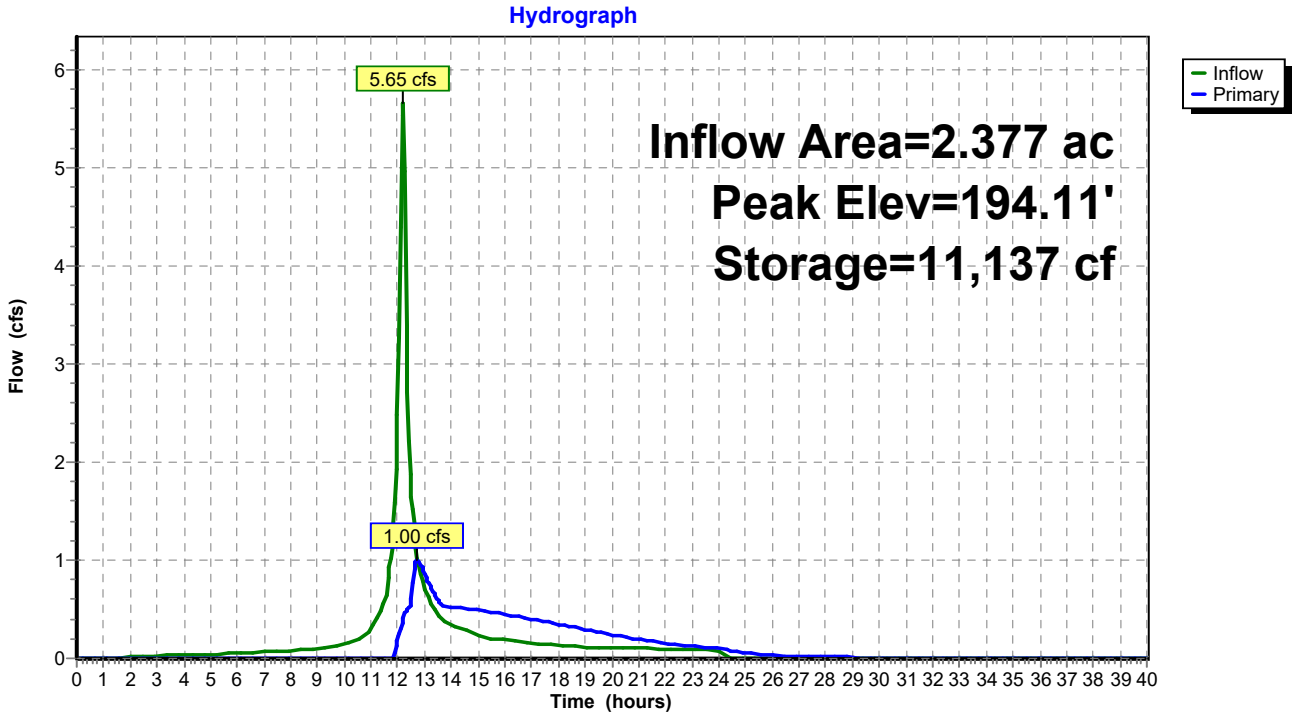
Volume	Invert	Avail.Storage	Storage Description
#1	190.50'	16,844 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.50	0	0	0
191.00	2,366	592	592
192.00	2,995	2,681	3,272
193.00	3,681	3,338	6,610
194.00	4,424	4,053	10,663
195.00	5,223	4,824	15,486
195.25	5,644	1,358	16,844

Device	Routing	Invert	Outlet Devices
#1	Primary	190.50'	**18.0" Round Culvert** L= 82.0' Ke= 0.500 Inlet / Outlet Invert= 190.50' / 190.10' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.24'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	194.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.95'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.99 cfs @ 12.72 hrs HW=194.11' (Free Discharge)
- **1=Culvert** (Passes 0.99 cfs of 12.96 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.55 cfs @ 6.28 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.45 cfs @ 1.06 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-36A: Basin #36A



Stage-Discharge for Pond B-36A: Basin #36A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.50	0.00	191.02	0.00	191.54	0.00	192.06	0.00
190.51	0.00	191.03	0.00	191.55	0.00	192.07	0.00
190.52	0.00	191.04	0.00	191.56	0.00	192.08	0.00
190.53	0.00	191.05	0.00	191.57	0.00	192.09	0.00
190.54	0.00	191.06	0.00	191.58	0.00	192.10	0.00
190.55	0.00	191.07	0.00	191.59	0.00	192.11	0.00
190.56	0.00	191.08	0.00	191.60	0.00	192.12	0.00
190.57	0.00	191.09	0.00	191.61	0.00	192.13	0.00
190.58	0.00	191.10	0.00	191.62	0.00	192.14	0.00
190.59	0.00	191.11	0.00	191.63	0.00	192.15	0.00
190.60	0.00	191.12	0.00	191.64	0.00	192.16	0.00
190.61	0.00	191.13	0.00	191.65	0.00	192.17	0.00
190.62	0.00	191.14	0.00	191.66	0.00	192.18	0.00
190.63	0.00	191.15	0.00	191.67	0.00	192.19	0.00
190.64	0.00	191.16	0.00	191.68	0.00	192.20	0.00
190.65	0.00	191.17	0.00	191.69	0.00	192.21	0.00
190.66	0.00	191.18	0.00	191.70	0.00	192.22	0.00
190.67	0.00	191.19	0.00	191.71	0.00	192.23	0.00
190.68	0.00	191.20	0.00	191.72	0.00	192.24	0.00
190.69	0.00	191.21	0.00	191.73	0.00	192.25	0.00
190.70	0.00	191.22	0.00	191.74	0.00	192.26	0.00
190.71	0.00	191.23	0.00	191.75	0.00	192.27	0.00
190.72	0.00	191.24	0.00	191.76	0.00	192.28	0.00
190.73	0.00	191.25	0.00	191.77	0.00	192.29	0.01
190.74	0.00	191.26	0.00	191.78	0.00	192.30	0.01
190.75	0.00	191.27	0.00	191.79	0.00	192.31	0.01
190.76	0.00	191.28	0.00	191.80	0.00	192.32	0.02
190.77	0.00	191.29	0.00	191.81	0.00	192.33	0.02
190.78	0.00	191.30	0.00	191.82	0.00	192.34	0.02
190.79	0.00	191.31	0.00	191.83	0.00	192.35	0.03
190.80	0.00	191.32	0.00	191.84	0.00	192.36	0.03
190.81	0.00	191.33	0.00	191.85	0.00	192.37	0.04
190.82	0.00	191.34	0.00	191.86	0.00	192.38	0.04
190.83	0.00	191.35	0.00	191.87	0.00	192.39	0.05
190.84	0.00	191.36	0.00	191.88	0.00	192.40	0.06
190.85	0.00	191.37	0.00	191.89	0.00	192.41	0.06
190.86	0.00	191.38	0.00	191.90	0.00	192.42	0.07
190.87	0.00	191.39	0.00	191.91	0.00	192.43	0.08
190.88	0.00	191.40	0.00	191.92	0.00	192.44	0.08
190.89	0.00	191.41	0.00	191.93	0.00	192.45	0.09
190.90	0.00	191.42	0.00	191.94	0.00	192.46	0.10
190.91	0.00	191.43	0.00	191.95	0.00	192.47	0.10
190.92	0.00	191.44	0.00	191.96	0.00	192.48	0.11
190.93	0.00	191.45	0.00	191.97	0.00	192.49	0.12
190.94	0.00	191.46	0.00	191.98	0.00	192.50	0.13
190.95	0.00	191.47	0.00	191.99	0.00	192.51	0.13
190.96	0.00	191.48	0.00	192.00	0.00	192.52	0.14
190.97	0.00	191.49	0.00	192.01	0.00	192.53	0.15
190.98	0.00	191.50	0.00	192.02	0.00	192.54	0.15
190.99	0.00	191.51	0.00	192.03	0.00	192.55	0.16
191.00	0.00	191.52	0.00	192.04	0.00	192.56	0.17
191.01	0.00	191.53	0.00	192.05	0.00	192.57	0.17

Stage-Discharge for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.58	0.17	193.10	0.35	193.62	0.46	194.14	1.23
192.59	0.18	193.11	0.35	193.63	0.46	194.15	1.31
192.60	0.18	193.12	0.35	193.64	0.47	194.16	1.39
192.61	0.19	193.13	0.36	193.65	0.47	194.17	1.47
192.62	0.19	193.14	0.36	193.66	0.47	194.18	1.55
192.63	0.20	193.15	0.36	193.67	0.47	194.19	1.63
192.64	0.20	193.16	0.36	193.68	0.47	194.20	1.72
192.65	0.21	193.17	0.37	193.69	0.48	194.21	1.81
192.66	0.21	193.18	0.37	193.70	0.48	194.22	1.90
192.67	0.22	193.19	0.37	193.71	0.48	194.23	1.99
192.68	0.22	193.20	0.37	193.72	0.48	194.24	2.09
192.69	0.22	193.21	0.38	193.73	0.48	194.25	2.19
192.70	0.23	193.22	0.38	193.74	0.49	194.26	2.28
192.71	0.23	193.23	0.38	193.75	0.49	194.27	2.38
192.72	0.24	193.24	0.38	193.76	0.49	194.28	2.49
192.73	0.24	193.25	0.39	193.77	0.49	194.29	2.59
192.74	0.24	193.26	0.39	193.78	0.49	194.30	2.70
192.75	0.25	193.27	0.39	193.79	0.49	194.31	2.80
192.76	0.25	193.28	0.39	193.80	0.50	194.32	2.91
192.77	0.25	193.29	0.39	193.81	0.50	194.33	3.02
192.78	0.26	193.30	0.40	193.82	0.50	194.34	3.13
192.79	0.26	193.31	0.40	193.83	0.50	194.35	3.25
192.80	0.26	193.32	0.40	193.84	0.50	194.36	3.36
192.81	0.27	193.33	0.40	193.85	0.50	194.37	3.48
192.82	0.27	193.34	0.41	193.86	0.51	194.38	3.60
192.83	0.27	193.35	0.41	193.87	0.51	194.39	3.72
192.84	0.28	193.36	0.41	193.88	0.51	194.40	3.84
192.85	0.28	193.37	0.41	193.89	0.51	194.41	3.96
192.86	0.28	193.38	0.41	193.90	0.51	194.42	4.08
192.87	0.29	193.39	0.42	193.91	0.52	194.43	4.21
192.88	0.29	193.40	0.42	193.92	0.52	194.44	4.33
192.89	0.29	193.41	0.42	193.93	0.52	194.45	4.46
192.90	0.30	193.42	0.42	193.94	0.52	194.46	4.59
192.91	0.30	193.43	0.43	193.95	0.52	194.47	4.72
192.92	0.30	193.44	0.43	193.96	0.52	194.48	4.85
192.93	0.30	193.45	0.43	193.97	0.53	194.49	4.98
192.94	0.31	193.46	0.43	193.98	0.53	194.50	5.12
192.95	0.31	193.47	0.43	193.99	0.53	194.51	5.25
192.96	0.31	193.48	0.44	194.00	0.53	194.52	5.39
192.97	0.32	193.49	0.44	194.01	0.55	194.53	5.53
192.98	0.32	193.50	0.44	194.02	0.57	194.54	5.66
192.99	0.32	193.51	0.44	194.03	0.60	194.55	5.80
193.00	0.32	193.52	0.44	194.04	0.64	194.56	5.94
193.01	0.33	193.53	0.45	194.05	0.68	194.57	6.09
193.02	0.33	193.54	0.45	194.06	0.73	194.58	6.23
193.03	0.33	193.55	0.45	194.07	0.78	194.59	6.37
193.04	0.33	193.56	0.45	194.08	0.84	194.60	6.52
193.05	0.34	193.57	0.45	194.09	0.90	194.61	6.67
193.06	0.34	193.58	0.46	194.10	0.96	194.62	6.81
193.07	0.34	193.59	0.46	194.11	1.02	194.63	6.96
193.08	0.34	193.60	0.46	194.12	1.09	194.64	7.11
193.09	0.35	193.61	0.46	194.13	1.16	194.65	7.26

Stage-Discharge for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Primary (cfs)
194.66	7.41
194.67	7.57
194.68	7.72
194.69	7.87
194.70	8.03
194.71	8.19
194.72	8.34
194.73	8.50
194.74	8.66
194.75	8.82
194.76	8.98
194.77	9.14
194.78	9.31
194.79	9.47
194.80	9.63
194.81	9.80
194.82	9.97
194.83	10.13
194.84	10.30
194.85	10.47
194.86	10.64
194.87	10.81
194.88	10.98
194.89	11.16
194.90	11.33
194.91	11.50
194.92	11.68
194.93	11.85
194.94	12.03
194.95	12.21
194.96	12.50
194.97	12.89
194.98	13.35
194.99	13.86
195.00	14.41
195.01	15.01
195.02	15.64
195.03	16.31
195.04	17.01
195.05	17.74
195.06	18.49
195.07	19.28
195.08	20.09
195.09	20.93
195.10	21.80
195.11	22.68
195.12	23.60
195.13	24.40
195.14	25.18
195.15	25.99
195.16	26.86
195.17	27.75
195.18	28.67
195.19	29.62
195.20	30.59
195.21	31.58
195.22	32.60
195.23	33.65
195.24	34.72
195.25	**35.81**

Stage-Area-Storage for Pond B-36A: Basin #36A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.50	0	0
190.51	47	0
190.52	95	1
190.53	142	2
190.54	189	4
190.55	237	6
190.56	284	9
190.57	331	12
190.58	379	15
190.59	426	19
190.60	473	24
190.61	521	29
190.62	568	34
190.63	615	40
190.64	662	46
190.65	710	53
190.66	757	61
190.67	804	68
190.68	852	77
190.69	899	85
190.70	946	95
190.71	994	104
190.72	1,041	115
190.73	1,088	125
190.74	1,136	136
190.75	1,183	148
190.76	1,230	160
190.77	1,278	172
190.78	1,325	185
190.79	1,372	199
190.80	1,420	213
190.81	1,467	227
190.82	1,514	242
190.83	1,562	258
190.84	1,609	274
190.85	1,656	290
190.86	1,704	307
190.87	1,751	324
190.88	1,798	342
190.89	1,845	360
190.90	1,893	379
190.91	1,940	398
190.92	1,987	417
190.93	2,035	437
190.94	2,082	458
190.95	2,129	479
190.96	2,177	501
190.97	2,224	523
190.98	2,271	545
190.99	2,319	568
191.00	2,366	592
191.01	2,372	615
191.02	2,379	639
191.03	2,385	663
191.04	2,391	687
191.05	2,397	711
191.06	2,404	735
191.07	2,410	759
191.08	2,416	783
191.09	2,423	807
191.10	2,429	831
191.11	2,435	856
191.12	2,441	880
191.13	2,448	904
191.14	2,454	929
191.15	2,460	953
191.16	2,467	978
191.17	2,473	1,003
191.18	2,479	1,028
191.19	2,486	1,052
191.20	2,492	1,077
191.21	2,498	1,102
191.22	2,504	1,127
191.23	2,511	1,152
191.24	2,517	1,177
191.25	2,523	1,203
191.26	2,530	1,228
191.27	2,536	1,253
191.28	2,542	1,279
191.29	2,548	1,304
191.30	2,555	1,330
191.31	2,561	1,355
191.32	2,567	1,381
191.33	2,574	1,407
191.34	2,580	1,432
191.35	2,586	1,458
191.36	2,592	1,484
191.37	2,599	1,510
191.38	2,605	1,536
191.39	2,611	1,562
191.40	2,618	1,588
191.41	2,624	1,614
191.42	2,630	1,641
191.43	2,636	1,667
191.44	2,643	1,693
191.45	2,649	1,720
191.46	2,655	1,746
191.47	2,662	1,773
191.48	2,668	1,800
191.49	2,674	1,826
191.50	2,681	1,853
191.51	2,687	1,880
191.52	2,693	1,907
191.53	2,699	1,934

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.54	2,706	1,961
191.55	2,712	1,988
191.56	2,718	2,015
191.57	2,725	2,042
191.58	2,731	2,070
191.59	2,737	2,097
191.60	2,743	2,124
191.61	2,750	2,152
191.62	2,756	2,179
191.63	2,762	2,207
191.64	2,769	2,235
191.65	2,775	2,262
191.66	2,781	2,290
191.67	2,787	2,318
191.68	2,794	2,346
191.69	2,800	2,374
191.70	2,806	2,402
191.71	2,813	2,430
191.72	2,819	2,458
191.73	2,825	2,486
191.74	2,831	2,515
191.75	2,838	2,543
191.76	2,844	2,571
191.77	2,850	2,600
191.78	2,857	2,628
191.79	2,863	2,657
191.80	2,869	2,686
191.81	2,875	2,714
191.82	2,882	2,743
191.83	2,888	2,772
191.84	2,894	2,801
191.85	2,901	2,830
191.86	2,907	2,859
191.87	2,913	2,888
191.88	2,920	2,917
191.89	2,926	2,946
191.90	2,932	2,976
191.91	2,938	3,005
191.92	2,945	3,034
191.93	2,951	3,064
191.94	2,957	3,093
191.95	2,964	3,123
191.96	2,970	3,153
191.97	2,976	3,182
191.98	2,982	3,212
191.99	2,989	3,242
192.00	2,995	3,272
192.01	3,002	3,302
192.02	3,009	3,332
192.03	3,016	3,362
192.04	3,022	3,392
192.05	3,029	3,423
192.06	3,036	3,453
192.07	3,043	3,483
192.08	3,050	3,514
192.09	3,057	3,544
192.10	3,064	3,575
192.11	3,070	3,606
192.12	3,077	3,636
192.13	3,084	3,667
192.14	3,091	3,698
192.15	3,098	3,729
192.16	3,105	3,760
192.17	3,112	3,791
192.18	3,118	3,822
192.19	3,125	3,853
192.20	3,132	3,885
192.21	3,139	3,916
192.22	3,146	3,948
192.23	3,153	3,979
192.24	3,160	4,011
192.25	3,167	4,042
192.26	3,173	4,074
192.27	3,180	4,106
192.28	3,187	4,137
192.29	3,194	4,169
192.30	3,201	4,201
192.31	3,208	4,233
192.32	3,215	4,266
192.33	3,221	4,298
192.34	3,228	4,330
192.35	3,235	4,362
192.36	3,242	4,395
192.37	3,249	4,427
192.38	3,256	4,460
192.39	3,263	4,492
192.40	3,269	4,525
192.41	3,276	4,558
192.42	3,283	4,590
192.43	3,290	4,623
192.44	3,297	4,656
192.45	3,304	4,689
192.46	3,311	4,722
192.47	3,317	4,755
192.48	3,324	4,789
192.49	3,331	4,822
192.50	3,338	4,855
192.51	3,345	4,889
192.52	3,352	4,922
192.53	3,359	4,956
192.54	3,365	4,989
192.55	3,372	5,023
192.56	3,379	5,057
192.57	3,386	5,091

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.58	3,393	5,124
192.59	3,400	5,158
192.60	3,407	5,192
192.61	3,413	5,227
192.62	3,420	5,261
192.63	3,427	5,295
192.64	3,434	5,329
192.65	3,441	5,364
192.66	3,448	5,398
192.67	3,455	5,433
192.68	3,461	5,467
192.69	3,468	5,502
192.70	3,475	5,537
192.71	3,482	5,571
192.72	3,489	5,606
192.73	3,496	5,641
192.74	3,503	5,676
192.75	3,510	5,711
192.76	3,516	5,746
192.77	3,523	5,782
192.78	3,530	5,817
192.79	3,537	5,852
192.80	3,544	5,888
192.81	3,551	5,923
192.82	3,558	5,959
192.83	3,564	5,994
192.84	3,571	6,030
192.85	3,578	6,066
192.86	3,585	6,101
192.87	3,592	6,137
192.88	3,599	6,173
192.89	3,606	6,209
192.90	3,612	6,245
192.91	3,619	6,281
192.92	3,626	6,318
192.93	3,633	6,354
192.94	3,640	6,390
192.95	3,647	6,427
192.96	3,654	6,463
192.97	3,660	6,500
192.98	3,667	6,537
192.99	3,674	6,573
193.00	3,681	6,610
193.01	3,688	6,647
193.02	3,696	6,684
193.03	3,703	6,721
193.04	3,711	6,758
193.05	3,718	6,795
193.06	3,726	6,832
193.07	3,733	6,869
193.08	3,740	6,907
193.09	3,748	6,944
193.10	3,755	6,982
193.11	3,763	7,019
193.12	3,770	7,057
193.13	3,778	7,095
193.14	3,785	7,133
193.15	3,792	7,171
193.16	3,800	7,208
193.17	3,807	7,247
193.18	3,815	7,285
193.19	3,822	7,323
193.20	3,830	7,361
193.21	3,837	7,399
193.22	3,844	7,438
193.23	3,852	7,476
193.24	3,859	7,515
193.25	3,867	7,553
193.26	3,874	7,592
193.27	3,882	7,631
193.28	3,889	7,670
193.29	3,896	7,709
193.30	3,904	7,748
193.31	3,911	7,787
193.32	3,919	7,826
193.33	3,926	7,865
193.34	3,934	7,904
193.35	3,941	7,944
193.36	3,948	7,983
193.37	3,956	8,023
193.38	3,963	8,062
193.39	3,971	8,102
193.40	3,978	8,142
193.41	3,986	8,182
193.42	3,993	8,222
193.43	4,000	8,262
193.44	4,008	8,302
193.45	4,015	8,342
193.46	4,023	8,382
193.47	4,030	8,422
193.48	4,038	8,462
193.49	4,045	8,503
193.50	4,053	8,543
193.51	4,060	8,584
193.52	4,067	8,625
193.53	4,075	8,665
193.54	4,082	8,706
193.55	4,090	8,747
193.56	4,097	8,788
193.57	4,105	8,829
193.58	4,112	8,870
193.59	4,119	8,911
193.60	4,127	8,952
193.61	4,134	8,994

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.62	4,142	9,035	194.14	4,536	11,290
193.63	4,149	9,076	194.15	4,544	11,335
193.64	4,157	9,118	194.16	4,552	11,381
193.65	4,164	9,160	194.17	4,560	11,426
193.66	4,171	9,201	194.18	4,568	11,472
193.67	4,179	9,243	194.19	4,576	11,517
193.68	4,186	9,285	194.20	4,584	11,563
193.69	4,194	9,327	194.21	4,592	11,609
193.70	4,201	9,369	194.22	4,600	11,655
193.71	4,209	9,411	194.23	4,608	11,701
193.72	4,216	9,453	194.24	4,616	11,747
193.73	4,223	9,495	194.25	4,624	11,793
193.74	4,231	9,537	194.26	4,632	11,840
193.75	4,238	9,580	194.27	4,640	11,886
193.76	4,246	9,622	194.28	4,648	11,933
193.77	4,253	9,665	194.29	4,656	11,979
193.78	4,261	9,707	194.30	4,664	12,026
193.79	4,268	9,750	194.31	4,672	12,072
193.80	4,275	9,793	194.32	4,680	12,119
193.81	4,283	9,835	194.33	4,688	12,166
193.82	4,290	9,878	194.34	4,696	12,213
193.83	4,298	9,921	194.35	4,704	12,260
193.84	4,305	9,964	194.36	4,712	12,307
193.85	4,313	10,007	194.37	4,720	12,354
193.86	4,320	10,050	194.38	4,728	12,401
193.87	4,327	10,094	194.39	4,736	12,449
193.88	4,335	10,137	194.40	4,744	12,496
193.89	4,342	10,180	194.41	4,752	12,543
193.90	4,350	10,224	194.42	4,760	12,591
193.91	4,357	10,267	194.43	4,768	12,639
193.92	4,365	10,311	194.44	4,776	12,686
193.93	4,372	10,355	194.45	4,784	12,734
193.94	4,379	10,398	194.46	4,792	12,782
193.95	4,387	10,442	194.47	4,800	12,830
193.96	4,394	10,486	194.48	4,808	12,878
193.97	4,402	10,530	194.49	4,816	12,926
193.98	4,409	10,574	194.50	4,824	12,974
193.99	4,417	10,618	194.51	4,831	13,023
194.00	4,424	10,663	194.52	4,839	13,071
194.01	4,432	10,707	194.53	4,847	13,119
194.02	4,440	10,751	194.54	4,855	13,168
194.03	4,448	10,796	194.55	4,863	13,217
194.04	4,456	10,840	194.56	4,871	13,265
194.05	4,464	10,885	194.57	4,879	13,314
194.06	4,472	10,929	194.58	4,887	13,363
194.07	4,480	10,974	194.59	4,895	13,412
194.08	4,488	11,019	194.60	4,903	13,461
194.09	4,496	11,064	194.61	4,911	13,510
194.10	4,504	11,109	194.62	4,919	13,559
194.11	4,512	11,154	194.63	4,927	13,608
194.12	4,520	11,199	194.64	4,935	13,657
194.13	4,528	11,244	194.65	4,943	13,707

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.66	4,951	13,756
194.67	4,959	13,806
194.68	4,967	13,856
194.69	4,975	13,905
194.70	4,983	13,955
194.71	4,991	14,005
194.72	4,999	14,055
194.73	5,007	14,105
194.74	5,015	14,155
194.75	5,023	14,205
194.76	5,031	14,255
194.77	5,039	14,306
194.78	5,047	14,356
194.79	5,055	14,407
194.80	5,063	14,457
194.81	5,071	14,508
194.82	5,079	14,559
194.83	5,087	14,610
194.84	5,095	14,661
194.85	5,103	14,712
194.86	5,111	14,763
194.87	5,119	14,814
194.88	5,127	14,865
194.89	5,135	14,916
194.90	5,143	14,968
194.91	5,151	15,019
194.92	5,159	15,071
194.93	5,167	15,122
194.94	5,175	15,174
194.95	5,183	15,226
194.96	5,191	15,278
194.97	5,199	15,330
194.98	5,207	15,382
194.99	5,215	15,434
195.00	5,223	15,486
195.01	5,240	15,538
195.02	5,257	15,591
195.03	5,274	15,643
195.04	5,290	15,696
195.05	5,307	15,749
195.06	5,324	15,802
195.07	5,341	15,856
195.08	5,358	15,909
195.09	5,375	15,963
195.10	5,391	16,017
195.11	5,408	16,071
195.12	5,425	16,125
195.13	5,442	16,179
195.14	5,459	16,234
195.15	5,476	16,288
195.16	5,492	16,343
195.17	5,509	16,398
195.18	5,526	16,453
195.19	5,543	16,509
195.20	5,560	16,564
195.21	5,577	16,620
195.22	5,593	16,676
195.23	5,610	16,732
195.24	5,627	16,788
195.25	**5,644**	**16,844**

Summary for Pond B-36B: Basin #36B

Inflow Area = 2.469 ac, 46.54% Impervious, Inflow Depth = 2.48" for Future 2 yr event
Inflow = 6.15 cfs @ 12.17 hrs, Volume= 0.510 af
Outflow = 2.87 cfs @ 12.36 hrs, Volume= 0.402 af, Atten= 53%, Lag= 11.1 min
Primary = 2.87 cfs @ 12.36 hrs, Volume= 0.402 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 193.55' @ 12.36 hrs Surf.Area= 4,176 sf Storage= 8,500 cf

Plug-Flow detention time= 165.0 min calculated for 0.402 af (79% of inflow)
Center-of-Mass det. time= 78.8 min (868.6 - 789.8)

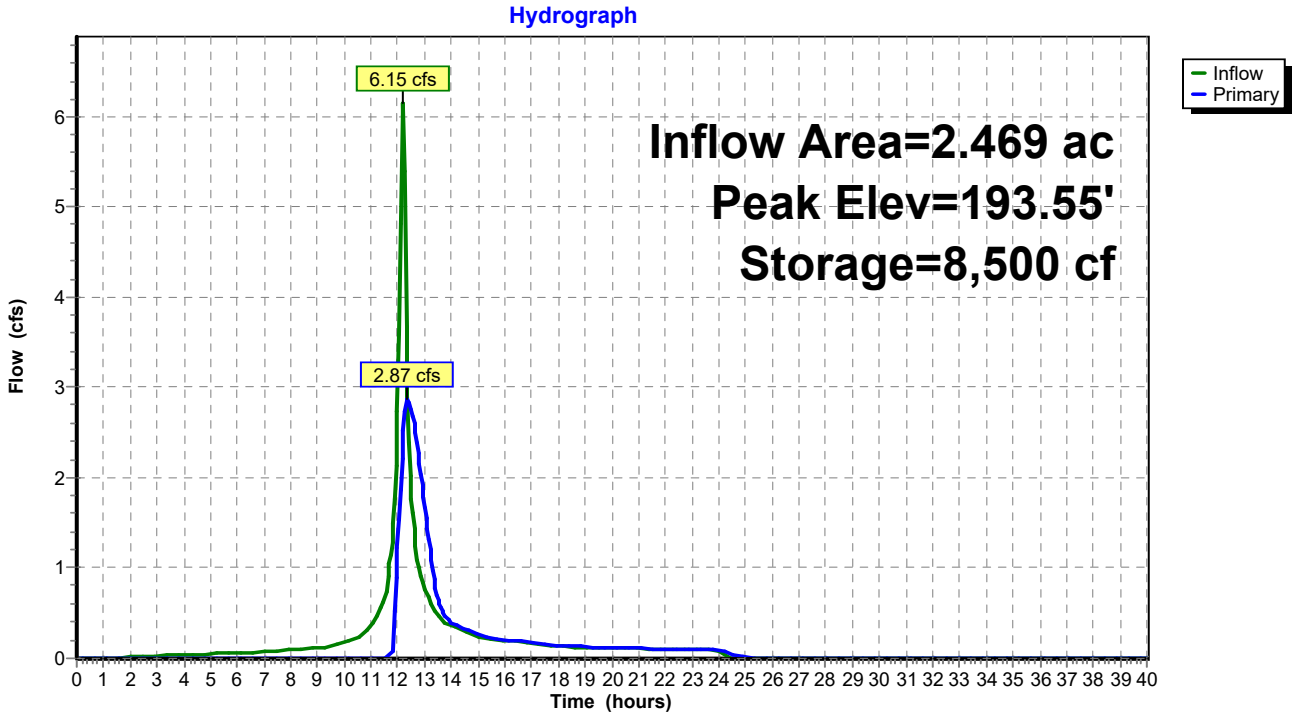
Volume	Invert	Avail.Storage	Storage Description
#1	190.50'	16,864 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.50	0	0	0
191.00	2,110	528	528
192.00	2,893	2,502	3,029
193.00	3,730	3,312	6,341
194.00	4,547	4,139	10,479
195.00	5,356	4,952	15,431
195.25	6,113	1,434	16,864

Device	Routing	Invert	Outlet Devices
#1	Primary	190.50'	**18.0" Round Culvert** L= 82.0' Ke= 0.500 Inlet / Outlet Invert= 190.50' / 190.10' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.53'	**36.0" W x 2.5" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.55'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.95'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.87 cfs @ 12.36 hrs HW=193.54' (Free Discharge)
- **1=Culvert** (Passes 2.87 cfs of 11.42 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 2.87 cfs @ 4.59 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-36B: Basin #36B



Stage-Discharge for Pond B-36B: Basin #36B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.50	0.00	191.02	0.00	191.54	0.00	192.06	0.00
190.51	0.00	191.03	0.00	191.55	0.00	192.07	0.00
190.52	0.00	191.04	0.00	191.56	0.00	192.08	0.00
190.53	0.00	191.05	0.00	191.57	0.00	192.09	0.00
190.54	0.00	191.06	0.00	191.58	0.00	192.10	0.00
190.55	0.00	191.07	0.00	191.59	0.00	192.11	0.00
190.56	0.00	191.08	0.00	191.60	0.00	192.12	0.00
190.57	0.00	191.09	0.00	191.61	0.00	192.13	0.00
190.58	0.00	191.10	0.00	191.62	0.00	192.14	0.00
190.59	0.00	191.11	0.00	191.63	0.00	192.15	0.00
190.60	0.00	191.12	0.00	191.64	0.00	192.16	0.00
190.61	0.00	191.13	0.00	191.65	0.00	192.17	0.00
190.62	0.00	191.14	0.00	191.66	0.00	192.18	0.00
190.63	0.00	191.15	0.00	191.67	0.00	192.19	0.00
190.64	0.00	191.16	0.00	191.68	0.00	192.20	0.00
190.65	0.00	191.17	0.00	191.69	0.00	192.21	0.00
190.66	0.00	191.18	0.00	191.70	0.00	192.22	0.00
190.67	0.00	191.19	0.00	191.71	0.00	192.23	0.00
190.68	0.00	191.20	0.00	191.72	0.00	192.24	0.00
190.69	0.00	191.21	0.00	191.73	0.00	192.25	0.00
190.70	0.00	191.22	0.00	191.74	0.00	192.26	0.00
190.71	0.00	191.23	0.00	191.75	0.00	192.27	0.00
190.72	0.00	191.24	0.00	191.76	0.00	192.28	0.00
190.73	0.00	191.25	0.00	191.77	0.00	192.29	0.00
190.74	0.00	191.26	0.00	191.78	0.00	192.30	0.00
190.75	0.00	191.27	0.00	191.79	0.00	192.31	0.00
190.76	0.00	191.28	0.00	191.80	0.00	192.32	0.00
190.77	0.00	191.29	0.00	191.81	0.00	192.33	0.00
190.78	0.00	191.30	0.00	191.82	0.00	192.34	0.00
190.79	0.00	191.31	0.00	191.83	0.00	192.35	0.00
190.80	0.00	191.32	0.00	191.84	0.00	192.36	0.00
190.81	0.00	191.33	0.00	191.85	0.00	192.37	0.00
190.82	0.00	191.34	0.00	191.86	0.00	192.38	0.00
190.83	0.00	191.35	0.00	191.87	0.00	192.39	0.00
190.84	0.00	191.36	0.00	191.88	0.00	192.40	0.00
190.85	0.00	191.37	0.00	191.89	0.00	192.41	0.00
190.86	0.00	191.38	0.00	191.90	0.00	192.42	0.00
190.87	0.00	191.39	0.00	191.91	0.00	192.43	0.00
190.88	0.00	191.40	0.00	191.92	0.00	192.44	0.00
190.89	0.00	191.41	0.00	191.93	0.00	192.45	0.00
190.90	0.00	191.42	0.00	191.94	0.00	192.46	0.00
190.91	0.00	191.43	0.00	191.95	0.00	192.47	0.00
190.92	0.00	191.44	0.00	191.96	0.00	192.48	0.00
190.93	0.00	191.45	0.00	191.97	0.00	192.49	0.00
190.94	0.00	191.46	0.00	191.98	0.00	192.50	0.00
190.95	0.00	191.47	0.00	191.99	0.00	192.51	0.00
190.96	0.00	191.48	0.00	192.00	0.00	192.52	0.00
190.97	0.00	191.49	0.00	192.01	0.00	192.53	0.00
190.98	0.00	191.50	0.00	192.02	0.00	192.54	0.01
190.99	0.00	191.51	0.00	192.03	0.00	192.55	0.03
191.00	0.00	191.52	0.00	192.04	0.00	192.56	0.05
191.01	0.00	191.53	0.00	192.05	0.00	192.57	0.08

Stage-Discharge for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.58	0.11	193.10	2.05	193.62	3.23	194.14	9.44
192.59	0.14	193.11	2.07	193.63	3.30	194.15	9.60
192.60	0.18	193.12	2.09	193.64	3.37	194.16	9.76
192.61	0.22	193.13	2.12	193.65	3.44	194.17	9.92
192.62	0.26	193.14	2.14	193.66	3.52	194.18	10.08
192.63	0.30	193.15	2.16	193.67	3.60	194.19	10.24
192.64	0.35	193.16	2.18	193.68	3.69	194.20	10.40
192.65	0.40	193.17	2.20	193.69	3.77	194.21	10.56
192.66	0.45	193.18	2.22	193.70	3.86	194.22	10.72
192.67	0.50	193.19	2.24	193.71	3.95	194.23	10.89
192.68	0.56	193.20	2.26	193.72	4.04	194.24	11.05
192.69	0.62	193.21	2.28	193.73	4.14	194.25	11.22
192.70	0.67	193.22	2.30	193.74	4.24	194.26	11.38
192.71	0.74	193.23	2.32	193.75	4.34	194.27	11.55
192.72	0.80	193.24	2.34	193.76	4.44	194.28	11.72
192.73	0.86	193.25	2.36	193.77	4.54	194.29	11.89
192.74	0.93	193.26	2.38	193.78	4.65	194.30	12.06
192.75	0.98	193.27	2.40	193.79	4.75	194.31	12.23
192.76	1.03	193.28	2.42	193.80	4.86	194.32	12.40
192.77	1.08	193.29	2.43	193.81	4.97	194.33	12.58
192.78	1.12	193.30	2.45	193.82	5.09	194.34	12.75
192.79	1.16	193.31	2.47	193.83	5.20	194.35	12.93
192.80	1.20	193.32	2.49	193.84	5.32	194.36	13.10
192.81	1.24	193.33	2.51	193.85	5.43	194.37	13.28
192.82	1.28	193.34	2.53	193.86	5.55	194.38	13.46
192.83	1.32	193.35	2.54	193.87	5.67	194.39	13.63
192.84	1.35	193.36	2.56	193.88	5.80	194.40	13.70
192.85	1.38	193.37	2.58	193.89	5.92	194.41	13.73
192.86	1.42	193.38	2.60	193.90	6.05	194.42	13.75
192.87	1.45	193.39	2.61	193.91	6.17	194.43	13.77
192.88	1.48	193.40	2.63	193.92	6.30	194.44	13.80
192.89	1.51	193.41	2.65	193.93	6.43	194.45	13.82
192.90	1.54	193.42	2.67	193.94	6.56	194.46	13.85
192.91	1.57	193.43	2.68	193.95	6.69	194.47	13.87
192.92	1.60	193.44	2.70	193.96	6.83	194.48	13.90
192.93	1.63	193.45	2.72	193.97	6.96	194.49	13.92
192.94	1.66	193.46	2.73	193.98	7.10	194.50	13.94
192.95	1.68	193.47	2.75	193.99	7.24	194.51	13.97
192.96	1.71	193.48	2.77	194.00	7.38	194.52	13.99
192.97	1.74	193.49	2.78	194.01	7.52	194.53	14.02
192.98	1.76	193.50	2.80	194.02	7.66	194.54	14.04
192.99	1.79	193.51	2.81	194.03	7.80	194.55	14.06
193.00	1.81	193.52	2.83	194.04	7.94	194.56	14.09
193.01	1.84	193.53	2.85	194.05	8.09	194.57	14.11
193.02	1.86	193.54	2.86	194.06	8.24	194.58	14.13
193.03	1.89	193.55	2.88	194.07	8.38	194.59	14.16
193.04	1.91	193.56	2.91	194.08	8.53	194.60	14.18
193.05	1.94	193.57	2.95	194.09	8.68	194.61	14.21
193.06	1.96	193.58	2.99	194.10	8.83	194.62	14.23
193.07	1.98	193.59	3.05	194.11	8.98	194.63	14.25
193.08	2.00	193.60	3.10	194.12	9.14	194.64	14.28
193.09	2.03	193.61	3.16	194.13	9.29	194.65	14.30

Stage-Discharge for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Primary (cfs)
194.66	14.32
194.67	14.35
194.68	14.37
194.69	14.39
194.70	14.42
194.71	14.44
194.72	14.46
194.73	14.49
194.74	14.51
194.75	14.53
194.76	14.56
194.77	14.58
194.78	14.60
194.79	14.62
194.80	14.65
194.81	14.67
194.82	14.69
194.83	14.72
194.84	14.74
194.85	14.76
194.86	14.78
194.87	14.81
194.88	14.83
194.89	14.85
194.90	14.87
194.91	14.90
194.92	14.92
194.93	14.94
194.94	14.96
194.95	14.99
194.96	15.13
194.97	15.36
194.98	15.66
194.99	16.01
195.00	16.41
195.01	16.84
195.02	17.32
195.03	17.82
195.04	18.36
195.05	18.93
195.06	19.52
195.07	20.14
195.08	20.79
195.09	21.47
195.10	22.16
195.11	22.89
195.12	23.63
195.13	24.40
195.14	25.18
195.15	25.99
195.16	26.86
195.17	27.75
195.18	28.67
195.19	29.62
195.20	30.59
195.21	31.58
195.22	32.60
195.23	33.65
195.24	34.72
195.25	**35.81**

Stage-Area-Storage for Pond B-36B: Basin #36B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.50	0	0	191.02	2,126	570
190.51	42	0	191.03	2,133	591
190.52	84	1	191.04	2,141	613
190.53	127	2	191.05	2,149	634
190.54	169	3	191.06	2,157	656
190.55	211	5	191.07	2,165	677
190.56	253	8	191.08	2,173	699
190.57	295	10	191.09	2,180	721
190.58	338	14	191.10	2,188	742
190.59	380	17	191.11	2,196	764
190.60	422	21	191.12	2,204	786
190.61	464	26	191.13	2,212	808
190.62	506	30	191.14	2,220	831
190.63	549	36	191.15	2,227	853
190.64	591	41	191.16	2,235	875
190.65	633	47	191.17	2,243	898
190.66	675	54	191.18	2,251	920
190.67	717	61	191.19	2,259	943
190.68	760	68	191.20	2,267	965
190.69	802	76	191.21	2,274	988
190.70	844	84	191.22	2,282	1,011
190.71	886	93	191.23	2,290	1,034
190.72	928	102	191.24	2,298	1,056
190.73	971	112	191.25	2,306	1,079
190.74	1,013	122	191.26	2,314	1,103
190.75	1,055	132	191.27	2,321	1,126
190.76	1,097	143	191.28	2,329	1,149
190.77	1,139	154	191.29	2,337	1,172
190.78	1,182	165	191.30	2,345	1,196
190.79	1,224	177	191.31	2,353	1,219
190.80	1,266	190	191.32	2,361	1,243
190.81	1,308	203	191.33	2,368	1,266
190.82	1,350	216	191.34	2,376	1,290
190.83	1,393	230	191.35	2,384	1,314
190.84	1,435	244	191.36	2,392	1,338
190.85	1,477	258	191.37	2,400	1,362
190.86	1,519	273	191.38	2,408	1,386
190.87	1,561	289	191.39	2,415	1,410
190.88	1,604	305	191.40	2,423	1,434
190.89	1,646	321	191.41	2,431	1,458
190.90	1,688	338	191.42	2,439	1,483
190.91	1,730	355	191.43	2,447	1,507
190.92	1,772	372	191.44	2,455	1,532
190.93	1,815	390	191.45	2,462	1,556
190.94	1,857	408	191.46	2,470	1,581
190.95	1,899	427	191.47	2,478	1,606
190.96	1,941	446	191.48	2,486	1,631
190.97	1,983	466	191.49	2,494	1,655
190.98	2,026	486	191.50	2,502	1,680
190.99	2,068	507	191.51	2,509	1,705
191.00	2,110	528	191.52	2,517	1,731
191.01	2,118	549	191.53	2,525	1,756

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.54	2,533	1,781
191.55	2,541	1,806
191.56	2,548	1,832
191.57	2,556	1,857
191.58	2,564	1,883
191.59	2,572	1,909
191.60	2,580	1,934
191.61	2,588	1,960
191.62	2,595	1,986
191.63	2,603	2,012
191.64	2,611	2,038
191.65	2,619	2,064
191.66	2,627	2,091
191.67	2,635	2,117
191.68	2,642	2,143
191.69	2,650	2,170
191.70	2,658	2,196
191.71	2,666	2,223
191.72	2,674	2,250
191.73	2,682	2,276
191.74	2,689	2,303
191.75	2,697	2,330
191.76	2,705	2,357
191.77	2,713	2,384
191.78	2,721	2,411
191.79	2,729	2,439
191.80	2,736	2,466
191.81	2,744	2,493
191.82	2,752	2,521
191.83	2,760	2,549
191.84	2,768	2,576
191.85	2,776	2,604
191.86	2,783	2,632
191.87	2,791	2,660
191.88	2,799	2,687
191.89	2,807	2,716
191.90	2,815	2,744
191.91	2,823	2,772
191.92	2,830	2,800
191.93	2,838	2,828
191.94	2,846	2,857
191.95	2,854	2,885
191.96	2,862	2,914
191.97	2,870	2,943
191.98	2,877	2,971
191.99	2,885	3,000
192.00	2,893	3,029
192.01	2,901	3,058
192.02	2,910	3,087
192.03	2,918	3,116
192.04	2,926	3,145
192.05	2,935	3,175
192.06	2,943	3,204
192.07	2,952	3,234
192.08	2,960	3,263
192.09	2,968	3,293
192.10	2,977	3,322
192.11	2,985	3,352
192.12	2,993	3,382
192.13	3,002	3,412
192.14	3,010	3,442
192.15	3,019	3,472
192.16	3,027	3,503
192.17	3,035	3,533
192.18	3,044	3,563
192.19	3,052	3,594
192.20	3,060	3,624
192.21	3,069	3,655
192.22	3,077	3,686
192.23	3,086	3,717
192.24	3,094	3,747
192.25	3,102	3,778
192.26	3,111	3,809
192.27	3,119	3,841
192.28	3,127	3,872
192.29	3,136	3,903
192.30	3,144	3,935
192.31	3,152	3,966
192.32	3,161	3,998
192.33	3,169	4,029
192.34	3,178	4,061
192.35	3,186	4,093
192.36	3,194	4,125
192.37	3,203	4,157
192.38	3,211	4,189
192.39	3,219	4,221
192.40	3,228	4,253
192.41	3,236	4,285
192.42	3,245	4,318
192.43	3,253	4,350
192.44	3,261	4,383
192.45	3,270	4,416
192.46	3,278	4,448
192.47	3,286	4,481
192.48	3,295	4,514
192.49	3,303	4,547
192.50	3,312	4,580
192.51	3,320	4,613
192.52	3,328	4,647
192.53	3,337	4,680
192.54	3,345	4,713
192.55	3,353	4,747
192.56	3,362	4,780
192.57	3,370	4,814

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.58	3,378	4,848	193.10	3,812	6,718
192.59	3,387	4,882	193.11	3,820	6,756
192.60	3,395	4,915	193.12	3,828	6,794
192.61	3,404	4,949	193.13	3,836	6,832
192.62	3,412	4,984	193.14	3,844	6,871
192.63	3,420	5,018	193.15	3,853	6,909
192.64	3,429	5,052	193.16	3,861	6,948
192.65	3,437	5,086	193.17	3,869	6,986
192.66	3,445	5,121	193.18	3,877	7,025
192.67	3,454	5,155	193.19	3,885	7,064
192.68	3,462	5,190	193.20	3,893	7,103
192.69	3,471	5,224	193.21	3,902	7,142
192.70	3,479	5,259	193.22	3,910	7,181
192.71	3,487	5,294	193.23	3,918	7,220
192.72	3,496	5,329	193.24	3,926	7,259
192.73	3,504	5,364	193.25	3,934	7,299
192.74	3,512	5,399	193.26	3,942	7,338
192.75	3,521	5,434	193.27	3,951	7,377
192.76	3,529	5,469	193.28	3,959	7,417
192.77	3,537	5,505	193.29	3,967	7,457
192.78	3,546	5,540	193.30	3,975	7,496
192.79	3,554	5,576	193.31	3,983	7,536
192.80	3,563	5,611	193.32	3,991	7,576
192.81	3,571	5,647	193.33	4,000	7,616
192.82	3,579	5,683	193.34	4,008	7,656
192.83	3,588	5,718	193.35	4,016	7,696
192.84	3,596	5,754	193.36	4,024	7,736
192.85	3,604	5,790	193.37	4,032	7,777
192.86	3,613	5,827	193.38	4,040	7,817
192.87	3,621	5,863	193.39	4,049	7,857
192.88	3,630	5,899	193.40	4,057	7,898
192.89	3,638	5,935	193.41	4,065	7,938
192.90	3,646	5,972	193.42	4,073	7,979
192.91	3,655	6,008	193.43	4,081	8,020
192.92	3,663	6,045	193.44	4,089	8,061
192.93	3,671	6,081	193.45	4,098	8,102
192.94	3,680	6,118	193.46	4,106	8,143
192.95	3,688	6,155	193.47	4,114	8,184
192.96	3,697	6,192	193.48	4,122	8,225
192.97	3,705	6,229	193.49	4,130	8,266
192.98	3,713	6,266	193.50	4,139	8,308
192.99	3,722	6,303	193.51	4,147	8,349
193.00	3,730	6,341	193.52	4,155	8,391
193.01	3,738	6,378	193.53	4,163	8,432
193.02	3,746	6,415	193.54	4,171	8,474
193.03	3,755	6,453	193.55	4,179	8,516
193.04	3,763	6,490	193.56	4,188	8,557
193.05	3,771	6,528	193.57	4,196	8,599
193.06	3,779	6,566	193.58	4,204	8,641
193.07	3,787	6,604	193.59	4,212	8,683
193.08	3,795	6,642	193.60	4,220	8,726
193.09	3,804	6,680	193.61	4,228	8,768

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.62	4,237	8,810	194.14	4,660	11,124
193.63	4,245	8,853	194.15	4,668	11,170
193.64	4,253	8,895	194.16	4,676	11,217
193.65	4,261	8,938	194.17	4,685	11,264
193.66	4,269	8,980	194.18	4,693	11,311
193.67	4,277	9,023	194.19	4,701	11,358
193.68	4,286	9,066	194.20	4,709	11,405
193.69	4,294	9,109	194.21	4,717	11,452
193.70	4,302	9,152	194.22	4,725	11,499
193.71	4,310	9,195	194.23	4,733	11,546
193.72	4,318	9,238	194.24	4,741	11,594
193.73	4,326	9,281	194.25	4,749	11,641
193.74	4,335	9,324	194.26	4,757	11,689
193.75	4,343	9,368	194.27	4,765	11,736
193.76	4,351	9,411	194.28	4,774	11,784
193.77	4,359	9,455	194.29	4,782	11,832
193.78	4,367	9,498	194.30	4,790	11,880
193.79	4,375	9,542	194.31	4,798	11,927
193.80	4,384	9,586	194.32	4,806	11,975
193.81	4,392	9,630	194.33	4,814	12,024
193.82	4,400	9,674	194.34	4,822	12,072
193.83	4,408	9,718	194.35	4,830	12,120
193.84	4,416	9,762	194.36	4,838	12,168
193.85	4,424	9,806	194.37	4,846	12,217
193.86	4,433	9,850	194.38	4,854	12,265
193.87	4,441	9,895	194.39	4,863	12,314
193.88	4,449	9,939	194.40	4,871	12,363
193.89	4,457	9,984	194.41	4,879	12,411
193.90	4,465	10,028	194.42	4,887	12,460
193.91	4,473	10,073	194.43	4,895	12,509
193.92	4,482	10,118	194.44	4,903	12,558
193.93	4,490	10,163	194.45	4,911	12,607
193.94	4,498	10,208	194.46	4,919	12,656
193.95	4,506	10,253	194.47	4,927	12,705
193.96	4,514	10,298	194.48	4,935	12,755
193.97	4,522	10,343	194.49	4,943	12,804
193.98	4,531	10,388	194.50	4,952	12,854
193.99	4,539	10,434	194.51	4,960	12,903
194.00	4,547	10,479	194.52	4,968	12,953
194.01	4,555	10,525	194.53	4,976	13,003
194.02	4,563	10,570	194.54	4,984	13,052
194.03	4,571	10,616	194.55	4,992	13,102
194.04	4,579	10,662	194.56	5,000	13,152
194.05	4,587	10,707	194.57	5,008	13,202
194.06	4,596	10,753	194.58	5,016	13,252
194.07	4,604	10,799	194.59	5,024	13,303
194.08	4,612	10,845	194.60	5,032	13,353
194.09	4,620	10,892	194.61	5,040	13,403
194.10	4,628	10,938	194.62	5,049	13,454
194.11	4,636	10,984	194.63	5,057	13,504
194.12	4,644	11,030	194.64	5,065	13,555
194.13	4,652	11,077	194.65	5,073	13,605

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.66	5,081	13,656
194.67	5,089	13,707
194.68	5,097	13,758
194.69	5,105	13,809
194.70	5,113	13,860
194.71	5,121	13,911
194.72	5,129	13,963
194.73	5,138	14,014
194.74	5,146	14,065
194.75	5,154	14,117
194.76	5,162	14,168
194.77	5,170	14,220
194.78	5,178	14,272
194.79	5,186	14,324
194.80	5,194	14,375
194.81	5,202	14,427
194.82	5,210	14,480
194.83	5,218	14,532
194.84	5,227	14,584
194.85	5,235	14,636
194.86	5,243	14,689
194.87	5,251	14,741
194.88	5,259	14,794
194.89	5,267	14,846
194.90	5,275	14,899
194.91	5,283	14,952
194.92	5,291	15,005
194.93	5,299	15,058
194.94	5,307	15,111
194.95	5,316	15,164
194.96	5,324	15,217
194.97	5,332	15,270
194.98	5,340	15,324
194.99	5,348	15,377
195.00	5,356	15,431
195.01	5,386	15,484
195.02	5,417	15,538
195.03	5,447	15,593
195.04	5,477	15,647
195.05	5,507	15,702
195.06	5,538	15,757
195.07	5,568	15,813
195.08	5,598	15,869
195.09	5,629	15,925
195.10	5,659	15,981
195.11	5,689	16,038
195.12	5,719	16,095
195.13	5,750	16,152
195.14	5,780	16,210
195.15	5,810	16,268
195.16	5,840	16,326
195.17	5,871	16,385
195.18	5,901	16,444
195.19	5,931	16,503
195.20	5,962	16,562
195.21	5,992	16,622
195.22	6,022	16,682
195.23	6,052	16,742
195.24	6,083	16,803
195.25	**6,113**	**16,864**

Summary for Pond B-37A: Basin #37A

Inflow Area = 2.154 ac, 39.65% Impervious, Inflow Depth = 2.33" for Future 2 yr event
Inflow = 5.08 cfs @ 12.17 hrs, Volume= 0.418 af
Outflow = 0.52 cfs @ 13.21 hrs, Volume= 0.336 af, Atten= 90%, Lag= 61.9 min
Primary = 0.52 cfs @ 13.21 hrs, Volume= 0.336 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 196.48' @ 13.21 hrs Surf.Area= 4,692 sf Storage= 10,487 cf

Plug-Flow detention time= 310.2 min calculated for 0.336 af (80% of inflow)
Center-of-Mass det. time= 226.9 min (1,023.2 - 796.2)

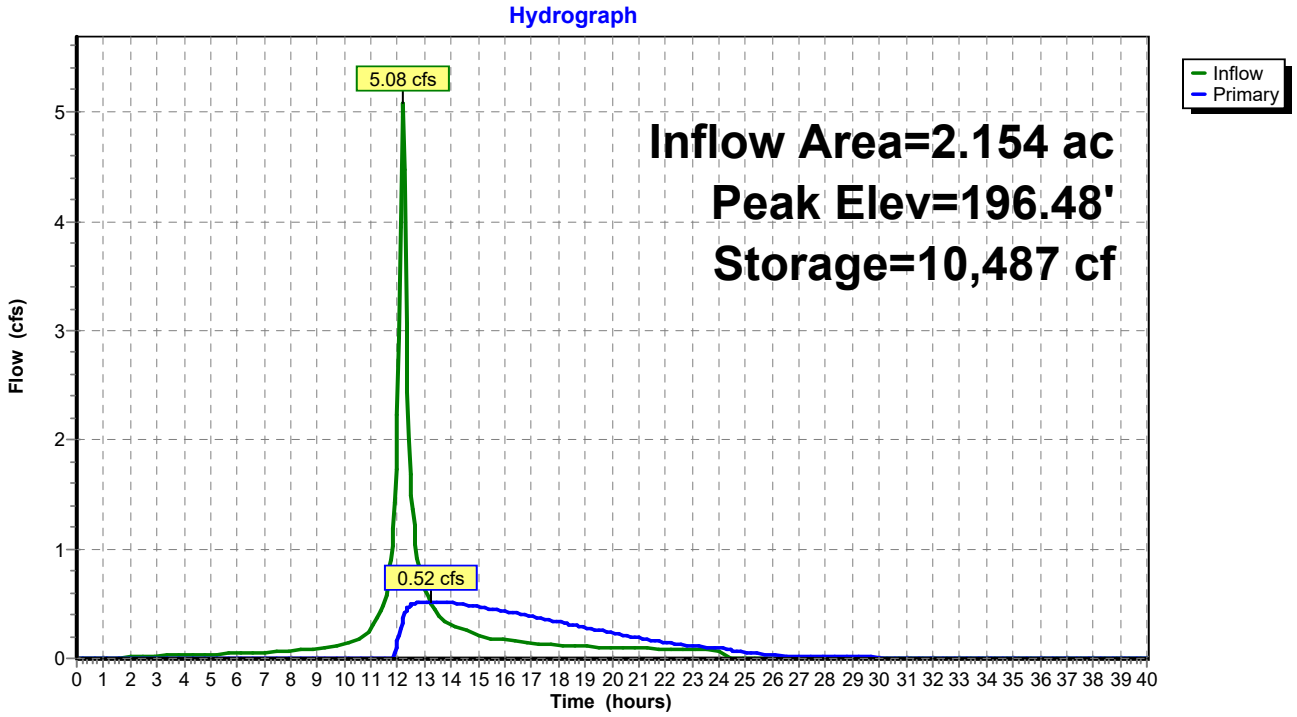
Volume	Invert	Avail.Storage	Storage Description
#1	193.30'	18,546 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
193.30	0	0	0
194.00	2,990	1,046	1,046
195.00	3,633	3,312	4,358
196.00	4,332	3,983	8,340
197.00	5,089	4,711	13,051
198.00	5,901	5,495	18,546

Device	Routing	Invert	Outlet Devices
#1	Primary	192.65'	**18.0" Round Culvert** L= 265.0' Ke= 0.500 Inlet / Outlet Invert= 192.65' / 191.33' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	194.77'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	196.48'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.52 cfs @ 13.21 hrs HW=196.48' (Free Discharge)
- **1=Culvert** (Passes 0.52 cfs of 10.75 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.52 cfs @ 5.97 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-37A: Basin #37A



Stage-Discharge for Pond B-37A: Basin #37A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.30	0.00	193.82	0.00	194.34	0.00	194.86	0.02
193.31	0.00	193.83	0.00	194.35	0.00	194.87	0.02
193.32	0.00	193.84	0.00	194.36	0.00	194.88	0.03
193.33	0.00	193.85	0.00	194.37	0.00	194.89	0.03
193.34	0.00	193.86	0.00	194.38	0.00	194.90	0.04
193.35	0.00	193.87	0.00	194.39	0.00	194.91	0.04
193.36	0.00	193.88	0.00	194.40	0.00	194.92	0.05
193.37	0.00	193.89	0.00	194.41	0.00	194.93	0.06
193.38	0.00	193.90	0.00	194.42	0.00	194.94	0.06
193.39	0.00	193.91	0.00	194.43	0.00	194.95	0.07
193.40	0.00	193.92	0.00	194.44	0.00	194.96	0.08
193.41	0.00	193.93	0.00	194.45	0.00	194.97	0.08
193.42	0.00	193.94	0.00	194.46	0.00	194.98	0.09
193.43	0.00	193.95	0.00	194.47	0.00	194.99	0.10
193.44	0.00	193.96	0.00	194.48	0.00	195.00	0.10
193.45	0.00	193.97	0.00	194.49	0.00	195.01	0.11
193.46	0.00	193.98	0.00	194.50	0.00	195.02	0.12
193.47	0.00	193.99	0.00	194.51	0.00	195.03	0.13
193.48	0.00	194.00	0.00	194.52	0.00	195.04	0.13
193.49	0.00	194.01	0.00	194.53	0.00	195.05	0.14
193.50	0.00	194.02	0.00	194.54	0.00	195.06	0.15
193.51	0.00	194.03	0.00	194.55	0.00	195.07	0.15
193.52	0.00	194.04	0.00	194.56	0.00	195.08	0.16
193.53	0.00	194.05	0.00	194.57	0.00	195.09	0.17
193.54	0.00	194.06	0.00	194.58	0.00	195.10	0.17
193.55	0.00	194.07	0.00	194.59	0.00	195.11	0.17
193.56	0.00	194.08	0.00	194.60	0.00	195.12	0.18
193.57	0.00	194.09	0.00	194.61	0.00	195.13	0.18
193.58	0.00	194.10	0.00	194.62	0.00	195.14	0.19
193.59	0.00	194.11	0.00	194.63	0.00	195.15	0.19
193.60	0.00	194.12	0.00	194.64	0.00	195.16	0.20
193.61	0.00	194.13	0.00	194.65	0.00	195.17	0.20
193.62	0.00	194.14	0.00	194.66	0.00	195.18	0.21
193.63	0.00	194.15	0.00	194.67	0.00	195.19	0.21
193.64	0.00	194.16	0.00	194.68	0.00	195.20	0.22
193.65	0.00	194.17	0.00	194.69	0.00	195.21	0.22
193.66	0.00	194.18	0.00	194.70	0.00	195.22	0.22
193.67	0.00	194.19	0.00	194.71	0.00	195.23	0.23
193.68	0.00	194.20	0.00	194.72	0.00	195.24	0.23
193.69	0.00	194.21	0.00	194.73	0.00	195.25	0.24
193.70	0.00	194.22	0.00	194.74	0.00	195.26	0.24
193.71	0.00	194.23	0.00	194.75	0.00	195.27	0.24
193.72	0.00	194.24	0.00	194.76	0.00	195.28	0.25
193.73	0.00	194.25	0.00	194.77	0.00	195.29	0.25
193.74	0.00	194.26	0.00	194.78	0.00	195.30	0.25
193.75	0.00	194.27	0.00	194.79	0.00	195.31	0.26
193.76	0.00	194.28	0.00	194.80	0.00	195.32	0.26
193.77	0.00	194.29	0.00	194.81	0.00	195.33	0.26
193.78	0.00	194.30	0.00	194.82	0.01	195.34	0.27
193.79	0.00	194.31	0.00	194.83	0.01	195.35	0.27
193.80	0.00	194.32	0.00	194.84	0.01	195.36	0.27
193.81	0.00	194.33	0.00	194.85	0.02	195.37	0.28

Stage-Discharge for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.38	0.28	195.90	0.41	196.42	0.51	196.94	4.58
195.39	0.28	195.91	0.41	196.43	0.51	196.95	4.71
195.40	0.29	195.92	0.42	196.44	0.52	196.96	4.84
195.41	0.29	195.93	0.42	196.45	0.52	196.97	4.98
195.42	0.29	195.94	0.42	196.46	0.52	196.98	5.11
195.43	0.30	195.95	0.42	196.47	0.52	196.99	5.24
195.44	0.30	195.96	0.43	196.48	0.52	197.00	5.38
195.45	0.30	195.97	0.43	196.49	0.54	197.01	5.52
195.46	0.30	195.98	0.43	196.50	0.56	197.02	5.66
195.47	0.31	195.99	0.43	196.51	0.59	197.03	5.80
195.48	0.31	196.00	0.43	196.52	0.63	197.04	5.94
195.49	0.31	196.01	0.44	196.53	0.68	197.05	6.08
195.50	0.32	196.02	0.44	196.54	0.72	197.06	6.22
195.51	0.32	196.03	0.44	196.55	0.78	197.07	6.37
195.52	0.32	196.04	0.44	196.56	0.83	197.08	6.51
195.53	0.32	196.05	0.44	196.57	0.89	197.09	6.66
195.54	0.33	196.06	0.45	196.58	0.95	197.10	6.81
195.55	0.33	196.07	0.45	196.59	1.01	197.11	6.95
195.56	0.33	196.08	0.45	196.60	1.08	197.12	7.10
195.57	0.33	196.09	0.45	196.61	1.15	197.13	7.25
195.58	0.34	196.10	0.45	196.62	1.23	197.14	7.41
195.59	0.34	196.11	0.46	196.63	1.30	197.15	7.56
195.60	0.34	196.12	0.46	196.64	1.38	197.16	7.71
195.61	0.34	196.13	0.46	196.65	1.46	197.17	7.87
195.62	0.35	196.14	0.46	196.66	1.54	197.18	8.02
195.63	0.35	196.15	0.46	196.67	1.63	197.19	8.18
195.64	0.35	196.16	0.46	196.68	1.71	197.20	8.34
195.65	0.35	196.17	0.47	196.69	1.80	197.21	8.49
195.66	0.36	196.18	0.47	196.70	1.89	197.22	8.65
195.67	0.36	196.19	0.47	196.71	1.99	197.23	8.81
195.68	0.36	196.20	0.47	196.72	2.08	197.24	8.97
195.69	0.36	196.21	0.47	196.73	2.18	197.25	9.14
195.70	0.37	196.22	0.48	196.74	2.28	197.26	9.30
195.71	0.37	196.23	0.48	196.75	2.38	197.27	9.46
195.72	0.37	196.24	0.48	196.76	2.48	197.28	9.63
195.73	0.37	196.25	0.48	196.77	2.58	197.29	9.79
195.74	0.38	196.26	0.48	196.78	2.69	197.30	9.96
195.75	0.38	196.27	0.49	196.79	2.79	197.31	10.13
195.76	0.38	196.28	0.49	196.80	2.90	197.32	10.30
195.77	0.38	196.29	0.49	196.81	3.01	197.33	10.46
195.78	0.39	196.30	0.49	196.82	3.13	197.34	10.63
195.79	0.39	196.31	0.49	196.83	3.24	197.35	10.81
195.80	0.39	196.32	0.49	196.84	3.35	197.36	10.98
195.81	0.39	196.33	0.50	196.85	3.47	197.37	11.15
195.82	0.39	196.34	0.50	196.86	3.59	197.38	11.32
195.83	0.40	196.35	0.50	196.87	3.71	197.39	11.50
195.84	0.40	196.36	0.50	196.88	3.83	197.40	11.67
195.85	0.40	196.37	0.50	196.89	3.95	197.41	11.85
195.86	0.40	196.38	0.50	196.90	4.07	197.42	12.02
195.87	0.41	196.39	0.51	196.91	4.20	197.43	12.07
195.88	0.41	196.40	0.51	196.92	4.33	197.44	12.09
195.89	0.41	196.41	0.51	196.93	4.45	197.45	12.10

Stage-Discharge for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Primary (cfs)
197.46	12.11
197.47	12.13
197.48	12.14
197.49	12.15
197.50	12.17
197.51	12.18
197.52	12.19
197.53	12.20
197.54	12.22
197.55	12.23
197.56	12.24
197.57	12.26
197.58	12.27
197.59	12.28
197.60	12.29
197.61	12.31
197.62	12.32
197.63	12.33
197.64	12.35
197.65	12.36
197.66	12.37
197.67	12.38
197.68	12.40
197.69	12.41
197.70	12.42
197.71	12.44
197.72	12.45
197.73	12.46
197.74	12.47
197.75	12.49
197.76	12.50
197.77	12.51
197.78	12.52
197.79	12.54
197.80	12.55
197.81	12.56
197.82	12.57
197.83	12.59
197.84	12.60
197.85	12.61
197.86	12.63
197.87	12.64
197.88	12.65
197.89	12.66
197.90	12.68
197.91	12.69
197.92	12.70
197.93	12.71
197.94	12.73
197.95	12.74
197.96	12.87
197.97	13.09
197.98	13.38
197.99	13.73
198.00	**14.11**

Stage-Area-Storage for Pond B-37A: Basin #37A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.30	0	0	193.82	2,221	577
193.31	43	0	193.83	2,264	600
193.32	85	1	193.84	2,307	623
193.33	128	2	193.85	2,349	646
193.34	171	3	193.86	2,392	670
193.35	214	5	193.87	2,435	694
193.36	256	8	193.88	2,477	718
193.37	299	10	193.89	2,520	743
193.38	342	14	193.90	2,563	769
193.39	384	17	193.91	2,606	795
193.40	427	21	193.92	2,648	821
193.41	470	26	193.93	2,691	848
193.42	513	31	193.94	2,734	875
193.43	555	36	193.95	2,776	902
193.44	598	42	193.96	2,819	930
193.45	641	48	193.97	2,862	959
193.46	683	55	193.98	2,905	988
193.47	726	62	193.99	2,947	1,017
193.48	769	69	194.00	2,990	1,046
193.49	812	77	194.01	2,996	1,076
193.50	854	85	194.02	3,003	1,106
193.51	897	94	194.03	3,009	1,136
193.52	940	103	194.04	3,016	1,167
193.53	982	113	194.05	3,022	1,197
193.54	1,025	123	194.06	3,029	1,227
193.55	1,068	133	194.07	3,035	1,257
193.56	1,111	144	194.08	3,041	1,288
193.57	1,153	156	194.09	3,048	1,318
193.58	1,196	167	194.10	3,054	1,349
193.59	1,239	180	194.11	3,061	1,379
193.60	1,281	192	194.12	3,067	1,410
193.61	1,324	205	194.13	3,074	1,441
193.62	1,367	219	194.14	3,080	1,471
193.63	1,410	233	194.15	3,086	1,502
193.64	1,452	247	194.16	3,093	1,533
193.65	1,495	262	194.17	3,099	1,564
193.66	1,538	277	194.18	3,106	1,595
193.67	1,580	292	194.19	3,112	1,626
193.68	1,623	308	194.20	3,119	1,657
193.69	1,666	325	194.21	3,125	1,689
193.70	1,709	342	194.22	3,131	1,720
193.71	1,751	359	194.23	3,138	1,751
193.72	1,794	377	194.24	3,144	1,783
193.73	1,837	395	194.25	3,151	1,814
193.74	1,879	413	194.26	3,157	1,846
193.75	1,922	432	194.27	3,164	1,877
193.76	1,965	452	194.28	3,170	1,909
193.77	2,008	472	194.29	3,176	1,941
193.78	2,050	492	194.30	3,183	1,972
193.79	2,093	513	194.31	3,189	2,004
193.80	2,136	534	194.32	3,196	2,036
193.81	2,178	555	194.33	3,202	2,068

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.34	3,209	2,100
194.35	3,215	2,132
194.36	3,221	2,165
194.37	3,228	2,197
194.38	3,234	2,229
194.39	3,241	2,262
194.40	3,247	2,294
194.41	3,254	2,326
194.42	3,260	2,359
194.43	3,266	2,392
194.44	3,273	2,424
194.45	3,279	2,457
194.46	3,286	2,490
194.47	3,292	2,523
194.48	3,299	2,556
194.49	3,305	2,589
194.50	3,312	2,622
194.51	3,318	2,655
194.52	3,324	2,688
194.53	3,331	2,722
194.54	3,337	2,755
194.55	3,344	2,788
194.56	3,350	2,822
194.57	3,357	2,855
194.58	3,363	2,889
194.59	3,369	2,923
194.60	3,376	2,956
194.61	3,382	2,990
194.62	3,389	3,024
194.63	3,395	3,058
194.64	3,402	3,092
194.65	3,408	3,126
194.66	3,414	3,160
194.67	3,421	3,194
194.68	3,427	3,228
194.69	3,434	3,263
194.70	3,440	3,297
194.71	3,447	3,331
194.72	3,453	3,366
194.73	3,459	3,401
194.74	3,466	3,435
194.75	3,472	3,470
194.76	3,479	3,505
194.77	3,485	3,539
194.78	3,492	3,574
194.79	3,498	3,609
194.80	3,504	3,644
194.81	3,511	3,679
194.82	3,517	3,714
194.83	3,524	3,750
194.84	3,530	3,785
194.85	3,537	3,820
194.86	3,543	3,856
194.87	3,549	3,891
194.88	3,556	3,927
194.89	3,562	3,962
194.90	3,569	3,998
194.91	3,575	4,034
194.92	3,582	4,069
194.93	3,588	4,105
194.94	3,594	4,141
194.95	3,601	4,177
194.96	3,607	4,213
194.97	3,614	4,249
194.98	3,620	4,285
194.99	3,627	4,322
195.00	3,633	4,358
195.01	3,640	4,394
195.02	3,647	4,431
195.03	3,654	4,467
195.04	3,661	4,504
195.05	3,668	4,541
195.06	3,675	4,577
195.07	3,682	4,614
195.08	3,689	4,651
195.09	3,696	4,688
195.10	3,703	4,725
195.11	3,710	4,762
195.12	3,717	4,799
195.13	3,724	4,836
195.14	3,731	4,873
195.15	3,738	4,911
195.16	3,745	4,948
195.17	3,752	4,986
195.18	3,759	5,023
195.19	3,766	5,061
195.20	3,773	5,099
195.21	3,780	5,136
195.22	3,787	5,174
195.23	3,794	5,212
195.24	3,801	5,250
195.25	3,808	5,288
195.26	3,815	5,326
195.27	3,822	5,364
195.28	3,829	5,403
195.29	3,836	5,441
195.30	3,843	5,479
195.31	3,850	5,518
195.32	3,857	5,556
195.33	3,864	5,595
195.34	3,871	5,634
195.35	3,878	5,672
195.36	3,885	5,711
195.37	3,892	5,750

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.38	3,899	5,789
195.39	3,906	5,828
195.40	3,913	5,867
195.41	3,920	5,906
195.42	3,927	5,946
195.43	3,934	5,985
195.44	3,941	6,024
195.45	3,948	6,064
195.46	3,955	6,103
195.47	3,962	6,143
195.48	3,969	6,182
195.49	3,976	6,222
195.50	3,983	6,262
195.51	3,989	6,302
195.52	3,996	6,342
195.53	4,003	6,382
195.54	4,010	6,422
195.55	4,017	6,462
195.56	4,024	6,502
195.57	4,031	6,542
195.58	4,038	6,583
195.59	4,045	6,623
195.60	4,052	6,664
195.61	4,059	6,704
195.62	4,066	6,745
195.63	4,073	6,786
195.64	4,080	6,826
195.65	4,087	6,867
195.66	4,094	6,908
195.67	4,101	6,949
195.68	4,108	6,990
195.69	4,115	7,031
195.70	4,122	7,072
195.71	4,129	7,114
195.72	4,136	7,155
195.73	4,143	7,196
195.74	4,150	7,238
195.75	4,157	7,279
195.76	4,164	7,321
195.77	4,171	7,363
195.78	4,178	7,404
195.79	4,185	7,446
195.80	4,192	7,488
195.81	4,199	7,530
195.82	4,206	7,572
195.83	4,213	7,614
195.84	4,220	7,656
195.85	4,227	7,699
195.86	4,234	7,741
195.87	4,241	7,783
195.88	4,248	7,826
195.89	4,255	7,868
195.90	4,262	7,911
195.91	4,269	7,953
195.92	4,276	7,996
195.93	4,283	8,039
195.94	4,290	8,082
195.95	4,297	8,125
195.96	4,304	8,168
195.97	4,311	8,211
195.98	4,318	8,254
195.99	4,325	8,297
196.00	4,332	8,340
196.01	4,340	8,384
196.02	4,347	8,427
196.03	4,355	8,471
196.04	4,362	8,514
196.05	4,370	8,558
196.06	4,377	8,602
196.07	4,385	8,646
196.08	4,393	8,689
196.09	4,400	8,733
196.10	4,408	8,777
196.11	4,415	8,822
196.12	4,423	8,866
196.13	4,430	8,910
196.14	4,438	8,954
196.15	4,446	8,999
196.16	4,453	9,043
196.17	4,461	9,088
196.18	4,468	9,133
196.19	4,476	9,177
196.20	4,483	9,222
196.21	4,491	9,267
196.22	4,499	9,312
196.23	4,506	9,357
196.24	4,514	9,402
196.25	4,521	9,447
196.26	4,529	9,492
196.27	4,536	9,538
196.28	4,544	9,583
196.29	4,552	9,629
196.30	4,559	9,674
196.31	4,567	9,720
196.32	4,574	9,765
196.33	4,582	9,811
196.34	4,589	9,857
196.35	4,597	9,903
196.36	4,605	9,949
196.37	4,612	9,995
196.38	4,620	10,041
196.39	4,627	10,088
196.40	4,635	10,134
196.41	4,642	10,180

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.42	4,650	10,227	196.94	5,044	12,747
196.43	4,658	10,273	196.95	5,051	12,797
196.44	4,665	10,320	196.96	5,059	12,848
196.45	4,673	10,367	196.97	5,066	12,899
196.46	4,680	10,413	196.98	5,074	12,949
196.47	4,688	10,460	196.99	5,081	13,000
196.48	4,695	10,507	197.00	5,089	13,051
196.49	4,703	10,554	197.01	5,097	13,102
196.50	4,711	10,601	197.02	5,105	13,153
196.51	4,718	10,648	197.03	5,113	13,204
196.52	4,726	10,695	197.04	5,121	13,255
196.53	4,733	10,743	197.05	5,130	13,306
196.54	4,741	10,790	197.06	5,138	13,358
196.55	4,748	10,838	197.07	5,146	13,409
196.56	4,756	10,885	197.08	5,154	13,461
196.57	4,763	10,933	197.09	5,162	13,512
196.58	4,771	10,980	197.10	5,170	13,564
196.59	4,779	11,028	197.11	5,178	13,616
196.60	4,786	11,076	197.12	5,186	13,668
196.61	4,794	11,124	197.13	5,195	13,719
196.62	4,801	11,172	197.14	5,203	13,771
196.63	4,809	11,220	197.15	5,211	13,823
196.64	4,816	11,268	197.16	5,219	13,876
196.65	4,824	11,316	197.17	5,227	13,928
196.66	4,832	11,364	197.18	5,235	13,980
196.67	4,839	11,413	197.19	5,243	14,033
196.68	4,847	11,461	197.20	5,251	14,085
196.69	4,854	11,510	197.21	5,260	14,138
196.70	4,862	11,558	197.22	5,268	14,190
196.71	4,869	11,607	197.23	5,276	14,243
196.72	4,877	11,656	197.24	5,284	14,296
196.73	4,885	11,705	197.25	5,292	14,349
196.74	4,892	11,753	197.26	5,300	14,402
196.75	4,900	11,802	197.27	5,308	14,455
196.76	4,907	11,851	197.28	5,316	14,508
196.77	4,915	11,901	197.29	5,324	14,561
196.78	4,922	11,950	197.30	5,333	14,614
196.79	4,930	11,999	197.31	5,341	14,668
196.80	4,938	12,048	197.32	5,349	14,721
196.81	4,945	12,098	197.33	5,357	14,775
196.82	4,953	12,147	197.34	5,365	14,828
196.83	4,960	12,197	197.35	5,373	14,882
196.84	4,968	12,246	197.36	5,381	14,936
196.85	4,975	12,296	197.37	5,389	14,990
196.86	4,983	12,346	197.38	5,398	15,043
196.87	4,991	12,396	197.39	5,406	15,097
196.88	4,998	12,446	197.40	5,414	15,152
196.89	5,006	12,496	197.41	5,422	15,206
196.90	5,013	12,546	197.42	5,430	15,260
196.91	5,021	12,596	197.43	5,438	15,314
196.92	5,028	12,646	197.44	5,446	15,369
196.93	5,036	12,697	197.45	5,454	15,423

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.46	5,463	15,478
197.47	5,471	15,533
197.48	5,479	15,587
197.49	5,487	15,642
197.50	5,495	15,697
197.51	5,503	15,752
197.52	5,511	15,807
197.53	5,519	15,862
197.54	5,527	15,917
197.55	5,536	15,973
197.56	5,544	16,028
197.57	5,552	16,084
197.58	5,560	16,139
197.59	5,568	16,195
197.60	5,576	16,251
197.61	5,584	16,306
197.62	5,592	16,362
197.63	5,601	16,418
197.64	5,609	16,474
197.65	5,617	16,530
197.66	5,625	16,587
197.67	5,633	16,643
197.68	5,641	16,699
197.69	5,649	16,756
197.70	5,657	16,812
197.71	5,666	16,869
197.72	5,674	16,926
197.73	5,682	16,982
197.74	5,690	17,039
197.75	5,698	17,096
197.76	5,706	17,153
197.77	5,714	17,210
197.78	5,722	17,267
197.79	5,730	17,325
197.80	5,739	17,382
197.81	5,747	17,439
197.82	5,755	17,497
197.83	5,763	17,555
197.84	5,771	17,612
197.85	5,779	17,670
197.86	5,787	17,728
197.87	5,795	17,786
197.88	5,804	17,844
197.89	5,812	17,902
197.90	5,820	17,960
197.91	5,828	18,018
197.92	5,836	18,077
197.93	5,844	18,135
197.94	5,852	18,193
197.95	5,860	18,252
197.96	5,869	18,311
197.97	5,877	18,369
197.98	5,885	18,428
197.99	5,893	18,487
198.00	**5,901**	**18,546**

Summary for Pond B-37B: Basin #37B

Inflow Area = 2.179 ac, 53.42% Impervious, Inflow Depth = 2.62" for Future 2 yr event
Inflow = 5.71 cfs @ 12.17 hrs, Volume= 0.476 af
Outflow = 0.22 cfs @ 15.05 hrs, Volume= 0.354 af, Atten= 96%, Lag= 172.4 min
Primary = 0.22 cfs @ 15.05 hrs, Volume= 0.354 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 196.63' @ 15.05 hrs Surf.Area= 6,508 sf Storage= 14,660 cf

Plug-Flow detention time= 706.1 min calculated for 0.354 af (74% of inflow)
Center-of-Mass det. time= 611.7 min (1,395.8 - 784.0)

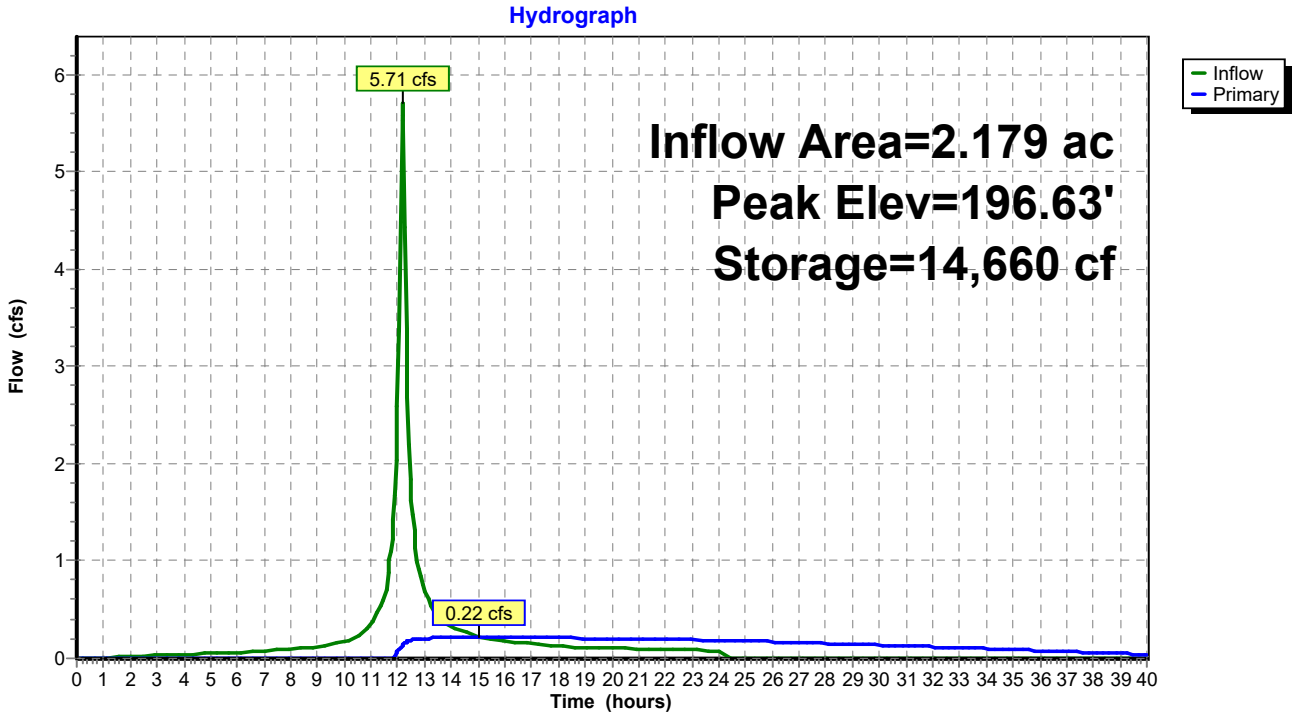
Volume	Invert	Avail.Storage	Storage Description
#1	193.30'	24,651 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
193.30	0	0	0
194.00	3,709	1,298	1,298
195.00	4,724	4,217	5,515
196.00	5,796	5,260	10,775
197.00	6,924	6,360	17,135
198.00	8,108	7,516	24,651

Device	Routing	Invert	Outlet Devices
#1	Primary	192.65'	**18.0" Round Culvert** L= 265.0' Ke= 0.500 Inlet / Outlet Invert= 192.65' / 191.33' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	194.81'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	196.63'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.22 cfs @ 15.05 hrs HW=196.63' (Free Discharge)
- **1=Culvert** (Passes 0.22 cfs of 10.98 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.22 cfs @ 6.31 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.00 cfs @ 0.13 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-37B: Basin #37B



Stage-Discharge for Pond B-37B: Basin #37B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.30	0.00	193.82	0.00	194.34	0.00	194.86	0.00
193.31	0.00	193.83	0.00	194.35	0.00	194.87	0.01
193.32	0.00	193.84	0.00	194.36	0.00	194.88	0.01
193.33	0.00	193.85	0.00	194.37	0.00	194.89	0.01
193.34	0.00	193.86	0.00	194.38	0.00	194.90	0.01
193.35	0.00	193.87	0.00	194.39	0.00	194.91	0.02
193.36	0.00	193.88	0.00	194.40	0.00	194.92	0.02
193.37	0.00	193.89	0.00	194.41	0.00	194.93	0.02
193.38	0.00	193.90	0.00	194.42	0.00	194.94	0.03
193.39	0.00	193.91	0.00	194.43	0.00	194.95	0.03
193.40	0.00	193.92	0.00	194.44	0.00	194.96	0.03
193.41	0.00	193.93	0.00	194.45	0.00	194.97	0.04
193.42	0.00	193.94	0.00	194.46	0.00	194.98	0.04
193.43	0.00	193.95	0.00	194.47	0.00	194.99	0.05
193.44	0.00	193.96	0.00	194.48	0.00	195.00	0.05
193.45	0.00	193.97	0.00	194.49	0.00	195.01	0.05
193.46	0.00	193.98	0.00	194.50	0.00	195.02	0.05
193.47	0.00	193.99	0.00	194.51	0.00	195.03	0.06
193.48	0.00	194.00	0.00	194.52	0.00	195.04	0.06
193.49	0.00	194.01	0.00	194.53	0.00	195.05	0.06
193.50	0.00	194.02	0.00	194.54	0.00	195.06	0.06
193.51	0.00	194.03	0.00	194.55	0.00	195.07	0.06
193.52	0.00	194.04	0.00	194.56	0.00	195.08	0.07
193.53	0.00	194.05	0.00	194.57	0.00	195.09	0.07
193.54	0.00	194.06	0.00	194.58	0.00	195.10	0.07
193.55	0.00	194.07	0.00	194.59	0.00	195.11	0.07
193.56	0.00	194.08	0.00	194.60	0.00	195.12	0.07
193.57	0.00	194.09	0.00	194.61	0.00	195.13	0.08
193.58	0.00	194.10	0.00	194.62	0.00	195.14	0.08
193.59	0.00	194.11	0.00	194.63	0.00	195.15	0.08
193.60	0.00	194.12	0.00	194.64	0.00	195.16	0.08
193.61	0.00	194.13	0.00	194.65	0.00	195.17	0.08
193.62	0.00	194.14	0.00	194.66	0.00	195.18	0.08
193.63	0.00	194.15	0.00	194.67	0.00	195.19	0.09
193.64	0.00	194.16	0.00	194.68	0.00	195.20	0.09
193.65	0.00	194.17	0.00	194.69	0.00	195.21	0.09
193.66	0.00	194.18	0.00	194.70	0.00	195.22	0.09
193.67	0.00	194.19	0.00	194.71	0.00	195.23	0.09
193.68	0.00	194.20	0.00	194.72	0.00	195.24	0.09
193.69	0.00	194.21	0.00	194.73	0.00	195.25	0.10
193.70	0.00	194.22	0.00	194.74	0.00	195.26	0.10
193.71	0.00	194.23	0.00	194.75	0.00	195.27	0.10
193.72	0.00	194.24	0.00	194.76	0.00	195.28	0.10
193.73	0.00	194.25	0.00	194.77	0.00	195.29	0.10
193.74	0.00	194.26	0.00	194.78	0.00	195.30	0.10
193.75	0.00	194.27	0.00	194.79	0.00	195.31	0.10
193.76	0.00	194.28	0.00	194.80	0.00	195.32	0.10
193.77	0.00	194.29	0.00	194.81	0.00	195.33	0.11
193.78	0.00	194.30	0.00	194.82	0.00	195.34	0.11
193.79	0.00	194.31	0.00	194.83	0.00	195.35	0.11
193.80	0.00	194.32	0.00	194.84	0.00	195.36	0.11
193.81	0.00	194.33	0.00	194.85	0.00	195.37	0.11

Stage-Discharge for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.38	0.11	195.90	0.16	196.42	0.20	196.94	2.46
195.39	0.11	195.91	0.16	196.43	0.20	196.95	2.56
195.40	0.11	195.92	0.16	196.44	0.20	196.96	2.67
195.41	0.12	195.93	0.17	196.45	0.20	196.97	2.78
195.42	0.12	195.94	0.17	196.46	0.20	196.98	2.90
195.43	0.12	195.95	0.17	196.47	0.20	196.99	3.01
195.44	0.12	195.96	0.17	196.48	0.21	197.00	3.13
195.45	0.12	195.97	0.17	196.49	0.21	197.01	3.24
195.46	0.12	195.98	0.17	196.50	0.21	197.02	3.36
195.47	0.12	195.99	0.17	196.51	0.21	197.03	3.48
195.48	0.12	196.00	0.17	196.52	0.21	197.04	3.60
195.49	0.12	196.01	0.17	196.53	0.21	197.05	3.73
195.50	0.13	196.02	0.17	196.54	0.21	197.06	3.85
195.51	0.13	196.03	0.17	196.55	0.21	197.07	3.97
195.52	0.13	196.04	0.17	196.56	0.21	197.08	4.10
195.53	0.13	196.05	0.17	196.57	0.21	197.09	4.23
195.54	0.13	196.06	0.18	196.58	0.21	197.10	4.36
195.55	0.13	196.07	0.18	196.59	0.21	197.11	4.49
195.56	0.13	196.08	0.18	196.60	0.21	197.12	4.62
195.57	0.13	196.09	0.18	196.61	0.21	197.13	4.75
195.58	0.13	196.10	0.18	196.62	0.21	197.14	4.89
195.59	0.13	196.11	0.18	196.63	0.22	197.15	5.02
195.60	0.14	196.12	0.18	196.64	0.23	197.16	5.16
195.61	0.14	196.13	0.18	196.65	0.25	197.17	5.30
195.62	0.14	196.14	0.18	196.66	0.28	197.18	5.44
195.63	0.14	196.15	0.18	196.67	0.32	197.19	5.58
195.64	0.14	196.16	0.18	196.68	0.36	197.20	5.72
195.65	0.14	196.17	0.18	196.69	0.41	197.21	5.86
195.66	0.14	196.18	0.18	196.70	0.46	197.22	6.00
195.67	0.14	196.19	0.19	196.71	0.51	197.23	6.15
195.68	0.14	196.20	0.19	196.72	0.57	197.24	6.29
195.69	0.14	196.21	0.19	196.73	0.63	197.25	6.44
195.70	0.15	196.22	0.19	196.74	0.70	197.26	6.59
195.71	0.15	196.23	0.19	196.75	0.76	197.27	6.73
195.72	0.15	196.24	0.19	196.76	0.83	197.28	6.88
195.73	0.15	196.25	0.19	196.77	0.90	197.29	7.03
195.74	0.15	196.26	0.19	196.78	0.98	197.30	7.19
195.75	0.15	196.27	0.19	196.79	1.06	197.31	7.34
195.76	0.15	196.28	0.19	196.80	1.13	197.32	7.49
195.77	0.15	196.29	0.19	196.81	1.22	197.33	7.65
195.78	0.15	196.30	0.19	196.82	1.30	197.34	7.80
195.79	0.15	196.31	0.19	196.83	1.39	197.35	7.96
195.80	0.15	196.32	0.19	196.84	1.47	197.36	8.12
195.81	0.16	196.33	0.20	196.85	1.56	197.37	8.28
195.82	0.16	196.34	0.20	196.86	1.66	197.38	8.43
195.83	0.16	196.35	0.20	196.87	1.75	197.39	8.60
195.84	0.16	196.36	0.20	196.88	1.84	197.40	8.76
195.85	0.16	196.37	0.20	196.89	1.94	197.41	8.92
195.86	0.16	196.38	0.20	196.90	2.04	197.42	9.08
195.87	0.16	196.39	0.20	196.91	2.14	197.43	9.25
195.88	0.16	196.40	0.20	196.92	2.25	197.44	9.41
195.89	0.16	196.41	0.20	196.93	2.35	197.45	9.58

Stage-Discharge for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Primary (cfs)
197.46	9.74
197.47	9.91
197.48	10.08
197.49	10.25
197.50	10.42
197.51	10.59
197.52	10.76
197.53	10.93
197.54	11.10
197.55	11.28
197.56	11.45
197.57	11.63
197.58	11.80
197.59	11.98
197.60	12.16
197.61	12.31
197.62	12.32
197.63	12.33
197.64	12.35
197.65	12.36
197.66	12.37
197.67	12.38
197.68	12.40
197.69	12.41
197.70	12.42
197.71	12.44
197.72	12.45
197.73	12.46
197.74	12.47
197.75	12.49
197.76	12.50
197.77	12.51
197.78	12.52
197.79	12.54
197.80	12.55
197.81	12.56
197.82	12.57
197.83	12.59
197.84	12.60
197.85	12.61
197.86	12.63
197.87	12.64
197.88	12.65
197.89	12.66
197.90	12.68
197.91	12.69
197.92	12.70
197.93	12.71
197.94	12.73
197.95	12.74
197.96	12.87
197.97	13.09
197.98	13.38
197.99	13.73
198.00	**14.11**

Stage-Area-Storage for Pond B-37B: Basin #37B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.30	0	0
193.31	53	0
193.32	106	1
193.33	159	2
193.34	212	4
193.35	265	7
193.36	318	10
193.37	371	13
193.38	424	17
193.39	477	21
193.40	530	26
193.41	583	32
193.42	636	38
193.43	689	45
193.44	742	52
193.45	795	60
193.46	848	68
193.47	901	77
193.48	954	86
193.49	1,007	96
193.50	1,060	106
193.51	1,113	117
193.52	1,166	128
193.53	1,219	140
193.54	1,272	153
193.55	1,325	166
193.56	1,378	179
193.57	1,431	193
193.58	1,484	208
193.59	1,537	223
193.60	1,590	238
193.61	1,643	255
193.62	1,696	271
193.63	1,749	289
193.64	1,802	306
193.65	1,855	325
193.66	1,907	343
193.67	1,960	363
193.68	2,013	383
193.69	2,066	403
193.70	2,119	424
193.71	2,172	445
193.72	2,225	467
193.73	2,278	490
193.74	2,331	513
193.75	2,384	536
193.76	2,437	561
193.77	2,490	585
193.78	2,543	610
193.79	2,596	636
193.80	2,649	662
193.81	2,702	689
193.82	2,755	716
193.83	2,808	744
193.84	2,861	773
193.85	2,914	801
193.86	2,967	831
193.87	3,020	861
193.88	3,073	891
193.89	3,126	922
193.90	3,179	954
193.91	3,232	986
193.92	3,285	1,018
193.93	3,338	1,052
193.94	3,391	1,085
193.95	3,444	1,119
193.96	3,497	1,154
193.97	3,550	1,189
193.98	3,603	1,225
193.99	3,656	1,261
194.00	3,709	1,298
194.01	3,719	1,335
194.02	3,729	1,373
194.03	3,739	1,410
194.04	3,750	1,447
194.05	3,760	1,485
194.06	3,770	1,523
194.07	3,780	1,560
194.08	3,790	1,598
194.09	3,800	1,636
194.10	3,811	1,674
194.11	3,821	1,712
194.12	3,831	1,751
194.13	3,841	1,789
194.14	3,851	1,827
194.15	3,861	1,866
194.16	3,871	1,905
194.17	3,882	1,943
194.18	3,892	1,982
194.19	3,902	2,021
194.20	3,912	2,060
194.21	3,922	2,099
194.22	3,932	2,139
194.23	3,942	2,178
194.24	3,953	2,218
194.25	3,963	2,257
194.26	3,973	2,297
194.27	3,983	2,337
194.28	3,993	2,376
194.29	4,003	2,416
194.30	4,014	2,457
194.31	4,024	2,497
194.32	4,034	2,537
194.33	4,044	2,577

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.34	4,054	2,618
194.35	4,064	2,658
194.36	4,074	2,699
194.37	4,085	2,740
194.38	4,095	2,781
194.39	4,105	2,822
194.40	4,115	2,863
194.41	4,125	2,904
194.42	4,135	2,945
194.43	4,145	2,987
194.44	4,156	3,028
194.45	4,166	3,070
194.46	4,176	3,112
194.47	4,186	3,153
194.48	4,196	3,195
194.49	4,206	3,237
194.50	4,217	3,280
194.51	4,227	3,322
194.52	4,237	3,364
194.53	4,247	3,406
194.54	4,257	3,449
194.55	4,267	3,492
194.56	4,277	3,534
194.57	4,288	3,577
194.58	4,298	3,620
194.59	4,308	3,663
194.60	4,318	3,706
194.61	4,328	3,749
194.62	4,338	3,793
194.63	4,348	3,836
194.64	4,359	3,880
194.65	4,369	3,923
194.66	4,379	3,967
194.67	4,389	4,011
194.68	4,399	4,055
194.69	4,409	4,099
194.70	4,420	4,143
194.71	4,430	4,187
194.72	4,440	4,232
194.73	4,450	4,276
194.74	4,460	4,321
194.75	4,470	4,365
194.76	4,480	4,410
194.77	4,491	4,455
194.78	4,501	4,500
194.79	4,511	4,545
194.80	4,521	4,590
194.81	4,531	4,635
194.82	4,541	4,681
194.83	4,551	4,726
194.84	4,562	4,772
194.85	4,572	4,817
194.86	4,582	4,863
194.87	4,592	4,909
194.88	4,602	4,955
194.89	4,612	5,001
194.90	4,623	5,047
194.91	4,633	5,094
194.92	4,643	5,140
194.93	4,653	5,186
194.94	4,663	5,233
194.95	4,673	5,280
194.96	4,683	5,327
194.97	4,694	5,373
194.98	4,704	5,420
194.99	4,714	5,467
195.00	4,724	5,515
195.01	4,735	5,562
195.02	4,745	5,609
195.03	4,756	5,657
195.04	4,767	5,704
195.05	4,778	5,752
195.06	4,788	5,800
195.07	4,799	5,848
195.08	4,810	5,896
195.09	4,820	5,944
195.10	4,831	5,992
195.11	4,842	6,041
195.12	4,853	6,089
195.13	4,863	6,138
195.14	4,874	6,187
195.15	4,885	6,235
195.16	4,896	6,284
195.17	4,906	6,333
195.18	4,917	6,382
195.19	4,928	6,432
195.20	4,938	6,481
195.21	4,949	6,530
195.22	4,960	6,580
195.23	4,971	6,630
195.24	4,981	6,679
195.25	4,992	6,729
195.26	5,003	6,779
195.27	5,013	6,829
195.28	5,024	6,879
195.29	5,035	6,930
195.30	5,046	6,980
195.31	5,056	7,031
195.32	5,067	7,081
195.33	5,078	7,132
195.34	5,088	7,183
195.35	5,099	7,234
195.36	5,110	7,285
195.37	5,121	7,336

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.38	5,131	7,387	195.90	5,689	10,200
195.39	5,142	7,439	195.91	5,700	10,257
195.40	5,153	7,490	195.92	5,710	10,314
195.41	5,164	7,542	195.93	5,721	10,372
195.42	5,174	7,593	195.94	5,732	10,429
195.43	5,185	7,645	195.95	5,742	10,486
195.44	5,196	7,697	195.96	5,753	10,544
195.45	5,206	7,749	195.97	5,764	10,601
195.46	5,217	7,801	195.98	5,775	10,659
195.47	5,228	7,853	195.99	5,785	10,717
195.48	5,239	7,906	196.00	5,796	10,775
195.49	5,249	7,958	196.01	5,807	10,833
195.50	5,260	8,011	196.02	5,819	10,891
195.51	5,271	8,063	196.03	5,830	10,949
195.52	5,281	8,116	196.04	5,841	11,007
195.53	5,292	8,169	196.05	5,852	11,066
195.54	5,303	8,222	196.06	5,864	11,124
195.55	5,314	8,275	196.07	5,875	11,183
195.56	5,324	8,328	196.08	5,886	11,242
195.57	5,335	8,381	196.09	5,898	11,301
195.58	5,346	8,435	196.10	5,909	11,360
195.59	5,356	8,488	196.11	5,920	11,419
195.60	5,367	8,542	196.12	5,931	11,478
195.61	5,378	8,596	196.13	5,943	11,538
195.62	5,389	8,650	196.14	5,954	11,597
195.63	5,399	8,704	196.15	5,965	11,657
195.64	5,410	8,758	196.16	5,976	11,716
195.65	5,421	8,812	196.17	5,988	11,776
195.66	5,432	8,866	196.18	5,999	11,836
195.67	5,442	8,920	196.19	6,010	11,896
195.68	5,453	8,975	196.20	6,022	11,956
195.69	5,464	9,029	196.21	6,033	12,017
195.70	5,474	9,084	196.22	6,044	12,077
195.71	5,485	9,139	196.23	6,055	12,138
195.72	5,496	9,194	196.24	6,067	12,198
195.73	5,507	9,249	196.25	6,078	12,259
195.74	5,517	9,304	196.26	6,089	12,320
195.75	5,528	9,359	196.27	6,101	12,381
195.76	5,539	9,414	196.28	6,112	12,442
195.77	5,549	9,470	196.29	6,123	12,503
195.78	5,560	9,525	196.30	6,134	12,564
195.79	5,571	9,581	196.31	6,146	12,626
195.80	5,582	9,637	196.32	6,157	12,687
195.81	5,592	9,693	196.33	6,168	12,749
195.82	5,603	9,749	196.34	6,180	12,810
195.83	5,614	9,805	196.35	6,191	12,872
195.84	5,624	9,861	196.36	6,202	12,934
195.85	5,635	9,917	196.37	6,213	12,996
195.86	5,646	9,974	196.38	6,225	13,059
195.87	5,657	10,030	196.39	6,236	13,121
195.88	5,667	10,087	196.40	6,247	13,183
195.89	5,678	10,144	196.41	6,258	13,246

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.42	6,270	13,308	196.94	6,856	16,721
196.43	6,281	13,371	196.95	6,868	16,790
196.44	6,292	13,434	196.96	6,879	16,859
196.45	6,304	13,497	196.97	6,890	16,927
196.46	6,315	13,560	196.98	6,901	16,996
196.47	6,326	13,623	196.99	6,913	17,065
196.48	6,337	13,687	197.00	6,924	17,135
196.49	6,349	13,750	197.01	6,936	17,204
196.50	6,360	13,814	197.02	6,948	17,273
196.51	6,371	13,877	197.03	6,960	17,343
196.52	6,383	13,941	197.04	6,971	17,413
196.53	6,394	14,005	197.05	6,983	17,482
196.54	6,405	14,069	197.06	6,995	17,552
196.55	6,416	14,133	197.07	7,007	17,622
196.56	6,428	14,197	197.08	7,019	17,692
196.57	6,439	14,262	197.09	7,031	17,763
196.58	6,450	14,326	197.10	7,042	17,833
196.59	6,462	14,391	197.11	7,054	17,903
196.60	6,473	14,455	197.12	7,066	17,974
196.61	6,484	14,520	197.13	7,078	18,045
196.62	6,495	14,585	197.14	7,090	18,116
196.63	6,507	14,650	197.15	7,102	18,187
196.64	6,518	14,715	197.16	7,113	18,258
196.65	6,529	14,780	197.17	7,125	18,329
196.66	6,540	14,846	197.18	7,137	18,400
196.67	6,552	14,911	197.19	7,149	18,472
196.68	6,563	14,977	197.20	7,161	18,543
196.69	6,574	15,042	197.21	7,173	18,615
196.70	6,586	15,108	197.22	7,184	18,687
196.71	6,597	15,174	197.23	7,196	18,758
196.72	6,608	15,240	197.24	7,208	18,831
196.73	6,619	15,306	197.25	7,220	18,903
196.74	6,631	15,373	197.26	7,232	18,975
196.75	6,642	15,439	197.27	7,244	19,047
196.76	6,653	15,505	197.28	7,256	19,120
196.77	6,665	15,572	197.29	7,267	19,192
196.78	6,676	15,639	197.30	7,279	19,265
196.79	6,687	15,705	197.31	7,291	19,338
196.80	6,698	15,772	197.32	7,303	19,411
196.81	6,710	15,839	197.33	7,315	19,484
196.82	6,721	15,907	197.34	7,327	19,557
196.83	6,732	15,974	197.35	7,338	19,631
196.84	6,744	16,041	197.36	7,350	19,704
196.85	6,755	16,109	197.37	7,362	19,778
196.86	6,766	16,176	197.38	7,374	19,851
196.87	6,777	16,244	197.39	7,386	19,925
196.88	6,789	16,312	197.40	7,398	19,999
196.89	6,800	16,380	197.41	7,409	20,073
196.90	6,811	16,448	197.42	7,421	20,147
196.91	6,822	16,516	197.43	7,433	20,221
196.92	6,834	16,584	197.44	7,445	20,296
196.93	6,845	16,653	197.45	7,457	20,370

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.46	7,469	20,445
197.47	7,480	20,520
197.48	7,492	20,595
197.49	7,504	20,670
197.50	7,516	20,745
197.51	7,528	20,820
197.52	7,540	20,895
197.53	7,552	20,971
197.54	7,563	21,046
197.55	7,575	21,122
197.56	7,587	21,198
197.57	7,599	21,274
197.58	7,611	21,350
197.59	7,623	21,426
197.60	7,634	21,502
197.61	7,646	21,579
197.62	7,658	21,655
197.63	7,670	21,732
197.64	7,682	21,808
197.65	7,694	21,885
197.66	7,705	21,962
197.67	7,717	22,039
197.68	7,729	22,117
197.69	7,741	22,194
197.70	7,753	22,272
197.71	7,765	22,349
197.72	7,776	22,427
197.73	7,788	22,505
197.74	7,800	22,583
197.75	7,812	22,661
197.76	7,824	22,739
197.77	7,836	22,817
197.78	7,848	22,896
197.79	7,859	22,974
197.80	7,871	23,053
197.81	7,883	23,132
197.82	7,895	23,210
197.83	7,907	23,289
197.84	7,919	23,369
197.85	7,930	23,448
197.86	7,942	23,527
197.87	7,954	23,607
197.88	7,966	23,686
197.89	7,978	23,766
197.90	7,990	23,846
197.91	8,001	23,926
197.92	8,013	24,006
197.93	8,025	24,086
197.94	8,037	24,166
197.95	8,049	24,247
197.96	8,061	24,327
197.97	8,072	24,408
197.98	8,084	24,489
197.99	8,096	24,570
198.00	**8,108**	**24,651**

Summary for Pond B-38: Basin #38

Inflow Area = 2.114 ac, 34.96% Impervious, Inflow Depth = 2.23" for Future 2 yr event
Inflow = 4.81 cfs @ 12.17 hrs, Volume= 0.393 af
Outflow = 0.19 cfs @ 15.07 hrs, Volume= 0.305 af, Atten= 96%, Lag= 173.5 min
Primary = 0.19 cfs @ 15.07 hrs, Volume= 0.305 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 206.69' @ 15.07 hrs Surf.Area= 6,609 sf Storage= 11,676 cf

Plug-Flow detention time= 673.5 min calculated for 0.304 af (77% of inflow)
Center-of-Mass det. time= 584.6 min (1,385.8 - 801.1)

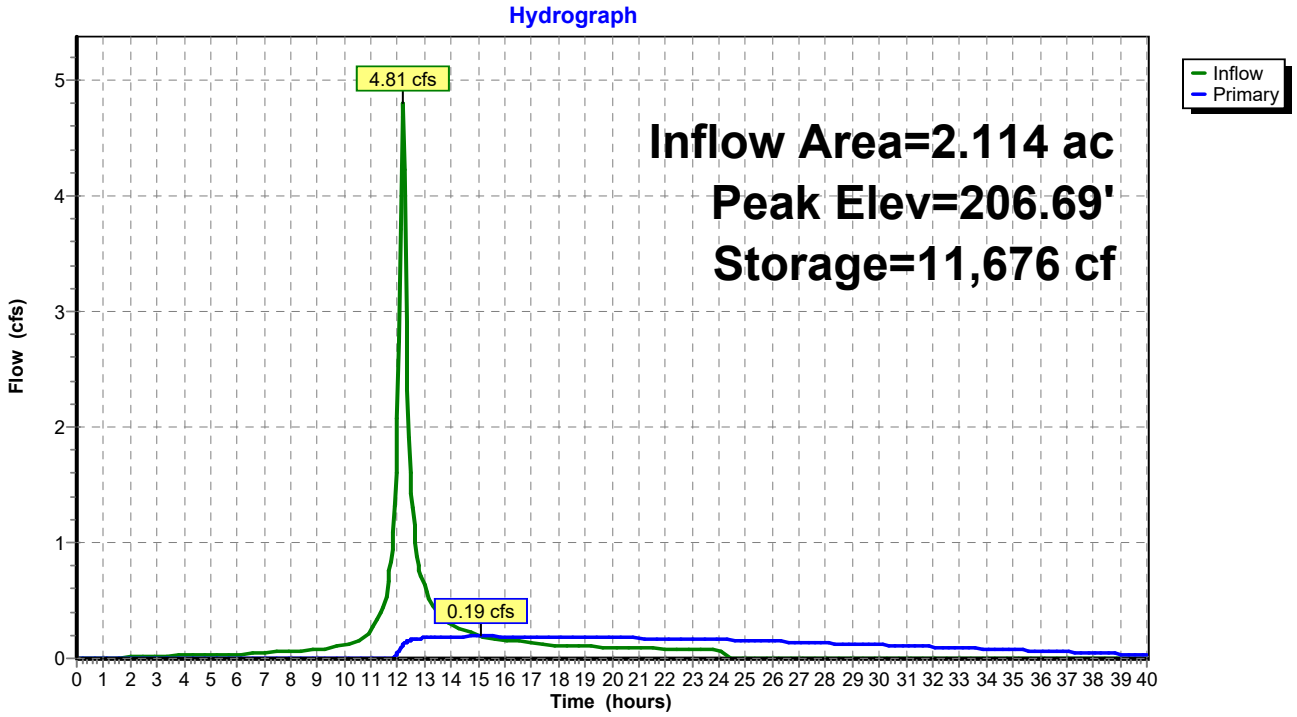
Volume	Invert	Avail.Storage	Storage Description
#1	204.30'	29,525 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
204.30	0	0	0
205.00	5,096	1,784	1,784
206.00	5,966	5,531	7,315
207.00	6,893	6,430	13,744
208.00	7,876	7,385	21,129
209.00	8,916	8,396	29,525

Device	Routing	Invert	Outlet Devices
#1	Primary	204.30'	**18.0" Round Culvert** L= 33.0' Ke= 0.500 Inlet / Outlet Invert= 204.30' / 204.13' S= 0.0052 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	205.26'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	206.69'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	208.25'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.19 cfs @ 15.07 hrs HW=206.69' (Free Discharge)
- **1=Culvert** (Passes 0.19 cfs of 10.08 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.19 cfs @ 5.55 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.00 cfs @ 0.20 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-38: Basin #38



Stage-Discharge for Pond B-38: Basin #38

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.30	0.00	204.82	0.00	205.34	0.01	205.86	0.12
204.31	0.00	204.83	0.00	205.35	0.01	205.87	0.12
204.32	0.00	204.84	0.00	205.36	0.02	205.88	0.12
204.33	0.00	204.85	0.00	205.37	0.02	205.89	0.12
204.34	0.00	204.86	0.00	205.38	0.02	205.90	0.12
204.35	0.00	204.87	0.00	205.39	0.03	205.91	0.12
204.36	0.00	204.88	0.00	205.40	0.03	205.92	0.12
204.37	0.00	204.89	0.00	205.41	0.03	205.93	0.12
204.38	0.00	204.90	0.00	205.42	0.04	205.94	0.12
204.39	0.00	204.91	0.00	205.43	0.04	205.95	0.13
204.40	0.00	204.92	0.00	205.44	0.05	205.96	0.13
204.41	0.00	204.93	0.00	205.45	0.05	205.97	0.13
204.42	0.00	204.94	0.00	205.46	0.05	205.98	0.13
204.43	0.00	204.95	0.00	205.47	0.05	205.99	0.13
204.44	0.00	204.96	0.00	205.48	0.06	206.00	0.13
204.45	0.00	204.97	0.00	205.49	0.06	206.01	0.13
204.46	0.00	204.98	0.00	205.50	0.06	206.02	0.13
204.47	0.00	204.99	0.00	205.51	0.06	206.03	0.13
204.48	0.00	205.00	0.00	205.52	0.06	206.04	0.13
204.49	0.00	205.01	0.00	205.53	0.07	206.05	0.14
204.50	0.00	205.02	0.00	205.54	0.07	206.06	0.14
204.51	0.00	205.03	0.00	205.55	0.07	206.07	0.14
204.52	0.00	205.04	0.00	205.56	0.07	206.08	0.14
204.53	0.00	205.05	0.00	205.57	0.07	206.09	0.14
204.54	0.00	205.06	0.00	205.58	0.08	206.10	0.14
204.55	0.00	205.07	0.00	205.59	0.08	206.11	0.14
204.56	0.00	205.08	0.00	205.60	0.08	206.12	0.14
204.57	0.00	205.09	0.00	205.61	0.08	206.13	0.14
204.58	0.00	205.10	0.00	205.62	0.08	206.14	0.14
204.59	0.00	205.11	0.00	205.63	0.08	206.15	0.15
204.60	0.00	205.12	0.00	205.64	0.09	206.16	0.15
204.61	0.00	205.13	0.00	205.65	0.09	206.17	0.15
204.62	0.00	205.14	0.00	205.66	0.09	206.18	0.15
204.63	0.00	205.15	0.00	205.67	0.09	206.19	0.15
204.64	0.00	205.16	0.00	205.68	0.09	206.20	0.15
204.65	0.00	205.17	0.00	205.69	0.09	206.21	0.15
204.66	0.00	205.18	0.00	205.70	0.10	206.22	0.15
204.67	0.00	205.19	0.00	205.71	0.10	206.23	0.15
204.68	0.00	205.20	0.00	205.72	0.10	206.24	0.15
204.69	0.00	205.21	0.00	205.73	0.10	206.25	0.15
204.70	0.00	205.22	0.00	205.74	0.10	206.26	0.16
204.71	0.00	205.23	0.00	205.75	0.10	206.27	0.16
204.72	0.00	205.24	0.00	205.76	0.10	206.28	0.16
204.73	0.00	205.25	0.00	205.77	0.10	206.29	0.16
204.74	0.00	205.26	0.00	205.78	0.11	206.30	0.16
204.75	0.00	205.27	0.00	205.79	0.11	206.31	0.16
204.76	0.00	205.28	0.00	205.80	0.11	206.32	0.16
204.77	0.00	205.29	0.00	205.81	0.11	206.33	0.16
204.78	0.00	205.30	0.00	205.82	0.11	206.34	0.16
204.79	0.00	205.31	0.00	205.83	0.11	206.35	0.16
204.80	0.00	205.32	0.01	205.84	0.11	206.36	0.16
204.81	0.00	205.33	0.01	205.85	0.11	206.37	0.16

Stage-Discharge for Pond B-38: Basin #38 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
206.38	0.17	206.90	1.45	207.42	8.10	207.94	14.46
206.39	0.17	206.91	1.54	207.43	8.25	207.95	14.49
206.40	0.17	206.92	1.63	207.44	8.41	207.96	14.51
206.41	0.17	206.93	1.72	207.45	8.57	207.97	14.54
206.42	0.17	206.94	1.82	207.46	8.74	207.98	14.56
206.43	0.17	206.95	1.92	207.47	8.90	207.99	14.59
206.44	0.17	206.96	2.02	207.48	9.06	208.00	14.61
206.45	0.17	206.97	2.12	207.49	9.22	208.01	14.64
206.46	0.17	206.98	2.22	207.50	9.39	208.02	14.66
206.47	0.17	206.99	2.33	207.51	9.55	208.03	14.69
206.48	0.17	207.00	2.43	207.52	9.72	208.04	14.71
206.49	0.17	207.01	2.54	207.53	9.89	208.05	14.74
206.50	0.17	207.02	2.65	207.54	10.06	208.06	14.76
206.51	0.18	207.03	2.76	207.55	10.23	208.07	14.79
206.52	0.18	207.04	2.87	207.56	10.40	208.08	14.81
206.53	0.18	207.05	2.99	207.57	10.57	208.09	14.84
206.54	0.18	207.06	3.10	207.58	10.74	208.10	14.86
206.55	0.18	207.07	3.22	207.59	10.91	208.11	14.88
206.56	0.18	207.08	3.34	207.60	11.08	208.12	14.91
206.57	0.18	207.09	3.46	207.61	11.26	208.13	14.93
206.58	0.18	207.10	3.58	207.62	11.43	208.14	14.96
206.59	0.18	207.11	3.70	207.63	11.61	208.15	14.98
206.60	0.18	207.12	3.83	207.64	11.78	208.16	15.01
206.61	0.18	207.13	3.95	207.65	11.96	208.17	15.03
206.62	0.18	207.14	4.08	207.66	12.14	208.18	15.05
206.63	0.18	207.15	4.21	207.67	12.32	208.19	15.08
206.64	0.19	207.16	4.34	207.68	12.50	208.20	15.10
206.65	0.19	207.17	4.47	207.69	12.68	208.21	15.13
206.66	0.19	207.18	4.60	207.70	12.86	208.22	15.15
206.67	0.19	207.19	4.73	207.71	13.04	208.23	15.17
206.68	0.19	207.20	4.86	207.72	13.22	208.24	15.20
206.69	0.19	207.21	5.00	207.73	13.40	208.25	15.22
206.70	0.20	207.22	5.14	207.74	13.59	208.26	15.36
206.71	0.23	207.23	5.27	207.75	13.77	208.27	15.60
206.72	0.26	207.24	5.41	207.76	13.96	208.28	15.90
206.73	0.30	207.25	5.55	207.77	14.03	208.29	16.25
206.74	0.34	207.26	5.69	207.78	14.06	208.30	16.65
206.75	0.38	207.27	5.84	207.79	14.08	208.31	17.09
206.76	0.44	207.28	5.98	207.80	14.11	208.32	17.56
206.77	0.49	207.29	6.12	207.81	14.14	208.33	18.07
206.78	0.55	207.30	6.27	207.82	14.16	208.34	18.61
206.79	0.61	207.31	6.42	207.83	14.19	208.35	19.17
206.80	0.67	207.32	6.56	207.84	14.21	208.36	19.77
206.81	0.74	207.33	6.71	207.85	14.24	208.37	20.40
206.82	0.81	207.34	6.86	207.86	14.26	208.38	21.05
206.83	0.88	207.35	7.01	207.87	14.29	208.39	21.72
206.84	0.95	207.36	7.16	207.88	14.31	208.40	22.42
206.85	1.03	207.37	7.32	207.89	14.34	208.41	23.14
206.86	1.11	207.38	7.47	207.90	14.36	208.42	23.89
206.87	1.19	207.39	7.63	207.91	14.39	208.43	24.66
206.88	1.28	207.40	7.78	207.92	14.41	208.44	25.44
206.89	1.36	207.41	7.94	207.93	14.44	208.45	26.25

Stage-Discharge for Pond B-38: Basin #38 (continued)

Elevation (feet)	Primary (cfs)
208.46	27.12
208.47	28.02
208.48	28.94
208.49	29.89
208.50	30.86
208.51	31.85
208.52	32.88
208.53	33.92
208.54	34.99
208.55	36.09
208.56	37.21
208.57	38.35
208.58	39.52
208.59	40.71
208.60	41.93
208.61	43.17
208.62	44.43
208.63	45.72
208.64	47.04
208.65	48.37
208.66	49.76
208.67	51.18
208.68	52.62
208.69	54.08
208.70	55.58
208.71	57.09
208.72	58.64
208.73	60.21
208.74	61.81
208.75	63.43
208.76	65.08
208.77	66.76
208.78	68.46
208.79	70.19
208.80	71.95
208.81	73.73
208.82	75.54
208.83	77.38
208.84	79.24
208.85	81.14
208.86	82.78
208.87	84.45
208.88	86.12
208.89	87.81
208.90	89.51
208.91	91.23
208.92	92.96
208.93	94.70
208.94	96.45
208.95	98.22
208.96	100.00
208.97	101.79
208.98	103.60
208.99	105.42
209.00	**107.25**

Stage-Area-Storage for Pond B-38: Basin #38

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.30	0	0	204.82	3,786	984
204.31	73	0	204.83	3,858	1,022
204.32	146	1	204.84	3,931	1,061
204.33	218	3	204.85	4,004	1,101
204.34	291	6	204.86	4,077	1,142
204.35	364	9	204.87	4,150	1,183
204.36	437	13	204.88	4,222	1,224
204.37	510	18	204.89	4,295	1,267
204.38	582	23	204.90	4,368	1,310
204.39	655	29	204.91	4,441	1,354
204.40	728	36	204.92	4,514	1,399
204.41	801	44	204.93	4,586	1,445
204.42	874	52	204.94	4,659	1,491
204.43	946	62	204.95	4,732	1,538
204.44	1,019	71	204.96	4,805	1,586
204.45	1,092	82	204.97	4,878	1,634
204.46	1,165	93	204.98	4,950	1,683
204.47	1,238	105	204.99	5,023	1,733
204.48	1,310	118	205.00	5,096	1,784
204.49	1,383	131	205.01	5,105	1,835
204.50	1,456	146	205.02	5,113	1,886
204.51	1,529	161	205.03	5,122	1,937
204.52	1,602	176	205.04	5,131	1,988
204.53	1,674	193	205.05	5,140	2,039
204.54	1,747	210	205.06	5,148	2,091
204.55	1,820	228	205.07	5,157	2,142
204.56	1,893	246	205.08	5,166	2,194
204.57	1,966	265	205.09	5,174	2,246
204.58	2,038	285	205.10	5,183	2,298
204.59	2,111	306	205.11	5,192	2,349
204.60	2,184	328	205.12	5,200	2,401
204.61	2,257	350	205.13	5,209	2,453
204.62	2,330	373	205.14	5,218	2,506
204.63	2,402	396	205.15	5,227	2,558
204.64	2,475	421	205.16	5,235	2,610
204.65	2,548	446	205.17	5,244	2,662
204.66	2,621	472	205.18	5,253	2,715
204.67	2,694	498	205.19	5,261	2,768
204.68	2,766	526	205.20	5,270	2,820
204.69	2,839	554	205.21	5,279	2,873
204.70	2,912	582	205.22	5,287	2,926
204.71	2,985	612	205.23	5,296	2,979
204.72	3,058	642	205.24	5,305	3,032
204.73	3,130	673	205.25	5,314	3,085
204.74	3,203	705	205.26	5,322	3,138
204.75	3,276	737	205.27	5,331	3,191
204.76	3,349	770	205.28	5,340	3,245
204.77	3,422	804	205.29	5,348	3,298
204.78	3,494	839	205.30	5,357	3,352
204.79	3,567	874	205.31	5,366	3,405
204.80	3,640	910	205.32	5,374	3,459
204.81	3,713	947	205.33	5,383	3,513

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.34	5,392	3,567	205.86	5,844	6,488
205.35	5,401	3,620	205.87	5,853	6,546
205.36	5,409	3,675	205.88	5,862	6,605
205.37	5,418	3,729	205.89	5,870	6,664
205.38	5,427	3,783	205.90	5,879	6,722
205.39	5,435	3,837	205.91	5,888	6,781
205.40	5,444	3,892	205.92	5,896	6,840
205.41	5,453	3,946	205.93	5,905	6,899
205.42	5,461	4,001	205.94	5,914	6,958
205.43	5,470	4,055	205.95	5,923	7,017
205.44	5,479	4,110	205.96	5,931	7,077
205.45	5,488	4,165	205.97	5,940	7,136
205.46	5,496	4,220	205.98	5,949	7,195
205.47	5,505	4,275	205.99	5,957	7,255
205.48	5,514	4,330	206.00	5,966	7,315
205.49	5,522	4,385	206.01	5,975	7,374
205.50	5,531	4,440	206.02	5,985	7,434
205.51	5,540	4,496	206.03	5,994	7,494
205.52	5,548	4,551	206.04	6,003	7,554
205.53	5,557	4,607	206.05	6,012	7,614
205.54	5,566	4,662	206.06	6,022	7,674
205.55	5,575	4,718	206.07	6,031	7,734
205.56	5,583	4,774	206.08	6,040	7,795
205.57	5,592	4,830	206.09	6,049	7,855
205.58	5,601	4,886	206.10	6,059	7,916
205.59	5,609	4,942	206.11	6,068	7,976
205.60	5,618	4,998	206.12	6,077	8,037
205.61	5,627	5,054	206.13	6,087	8,098
205.62	5,635	5,110	206.14	6,096	8,159
205.63	5,644	5,167	206.15	6,105	8,220
205.64	5,653	5,223	206.16	6,114	8,281
205.65	5,662	5,280	206.17	6,124	8,342
205.66	5,670	5,336	206.18	6,133	8,403
205.67	5,679	5,393	206.19	6,142	8,465
205.68	5,688	5,450	206.20	6,151	8,526
205.69	5,696	5,507	206.21	6,161	8,588
205.70	5,705	5,564	206.22	6,170	8,650
205.71	5,714	5,621	206.23	6,179	8,711
205.72	5,722	5,678	206.24	6,188	8,773
205.73	5,731	5,735	206.25	6,198	8,835
205.74	5,740	5,793	206.26	6,207	8,897
205.75	5,749	5,850	206.27	6,216	8,959
205.76	5,757	5,908	206.28	6,226	9,021
205.77	5,766	5,965	206.29	6,235	9,084
205.78	5,775	6,023	206.30	6,244	9,146
205.79	5,783	6,081	206.31	6,253	9,209
205.80	5,792	6,139	206.32	6,263	9,271
205.81	5,801	6,197	206.33	6,272	9,334
205.82	5,809	6,255	206.34	6,281	9,397
205.83	5,818	6,313	206.35	6,290	9,459
205.84	5,827	6,371	206.36	6,300	9,522
205.85	5,836	6,429	206.37	6,309	9,585

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
206.38	6,318	9,649	206.90	6,800	13,059
206.39	6,328	9,712	206.91	6,810	13,127
206.40	6,337	9,775	206.92	6,819	13,196
206.41	6,346	9,839	206.93	6,828	13,264
206.42	6,355	9,902	206.94	6,837	13,332
206.43	6,365	9,966	206.95	6,847	13,401
206.44	6,374	10,029	206.96	6,856	13,469
206.45	6,383	10,093	206.97	6,865	13,538
206.46	6,392	10,157	206.98	6,874	13,606
206.47	6,402	10,221	206.99	6,884	13,675
206.48	6,411	10,285	207.00	6,893	13,744
206.49	6,420	10,349	207.01	6,903	13,813
206.50	6,430	10,413	207.02	6,913	13,882
206.51	6,439	10,478	207.03	6,922	13,951
206.52	6,448	10,542	207.04	6,932	14,021
206.53	6,457	10,607	207.05	6,942	14,090
206.54	6,467	10,671	207.06	6,952	14,159
206.55	6,476	10,736	207.07	6,962	14,229
206.56	6,485	10,801	207.08	6,972	14,299
206.57	6,494	10,866	207.09	6,981	14,368
206.58	6,504	10,931	207.10	6,991	14,438
206.59	6,513	10,996	207.11	7,001	14,508
206.60	6,522	11,061	207.12	7,011	14,578
206.61	6,531	11,126	207.13	7,021	14,648
206.62	6,541	11,192	207.14	7,031	14,719
206.63	6,550	11,257	207.15	7,040	14,789
206.64	6,559	11,323	207.16	7,050	14,860
206.65	6,569	11,388	207.17	7,060	14,930
206.66	6,578	11,454	207.18	7,070	15,001
206.67	6,587	11,520	207.19	7,080	15,072
206.68	6,596	11,586	207.20	7,090	15,142
206.69	6,606	11,652	207.21	7,099	15,213
206.70	6,615	11,718	207.22	7,109	15,284
206.71	6,624	11,784	207.23	7,119	15,355
206.72	6,633	11,850	207.24	7,129	15,427
206.73	6,643	11,917	207.25	7,139	15,498
206.74	6,652	11,983	207.26	7,149	15,570
206.75	6,661	12,050	207.27	7,158	15,641
206.76	6,671	12,116	207.28	7,168	15,713
206.77	6,680	12,183	207.29	7,178	15,784
206.78	6,689	12,250	207.30	7,188	15,856
206.79	6,698	12,317	207.31	7,198	15,928
206.80	6,708	12,384	207.32	7,208	16,000
206.81	6,717	12,451	207.33	7,217	16,072
206.82	6,726	12,518	207.34	7,227	16,145
206.83	6,735	12,586	207.35	7,237	16,217
206.84	6,745	12,653	207.36	7,247	16,289
206.85	6,754	12,721	207.37	7,257	16,362
206.86	6,763	12,788	207.38	7,267	16,434
206.87	6,772	12,856	207.39	7,276	16,507
206.88	6,782	12,924	207.40	7,286	16,580
206.89	6,791	12,991	207.41	7,296	16,653

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
207.42	7,306	16,726	207.94	7,817	20,658
207.43	7,316	16,799	207.95	7,827	20,736
207.44	7,326	16,872	207.96	7,837	20,814
207.45	7,335	16,945	207.97	7,847	20,893
207.46	7,345	17,019	207.98	7,856	20,971
207.47	7,355	17,092	207.99	7,866	21,050
207.48	7,365	17,166	208.00	7,876	21,129
207.49	7,375	17,240	208.01	7,886	21,207
207.50	7,385	17,313	208.02	7,897	21,286
207.51	7,394	17,387	208.03	7,907	21,365
207.52	7,404	17,461	208.04	7,918	21,444
207.53	7,414	17,535	208.05	7,928	21,524
207.54	7,424	17,610	208.06	7,938	21,603
207.55	7,434	17,684	208.07	7,949	21,682
207.56	7,443	17,758	208.08	7,959	21,762
207.57	7,453	17,833	208.09	7,970	21,842
207.58	7,463	17,907	208.10	7,980	21,921
207.59	7,473	17,982	208.11	7,990	22,001
207.60	7,483	18,057	208.12	8,001	22,081
207.61	7,493	18,132	208.13	8,011	22,161
207.62	7,502	18,207	208.14	8,022	22,241
207.63	7,512	18,282	208.15	8,032	22,322
207.64	7,522	18,357	208.16	8,042	22,402
207.65	7,532	18,432	208.17	8,053	22,483
207.66	7,542	18,508	208.18	8,063	22,563
207.67	7,552	18,583	208.19	8,074	22,644
207.68	7,561	18,659	208.20	8,084	22,725
207.69	7,571	18,734	208.21	8,094	22,805
207.70	7,581	18,810	208.22	8,105	22,886
207.71	7,591	18,886	208.23	8,115	22,968
207.72	7,601	18,962	208.24	8,126	23,049
207.73	7,611	19,038	208.25	8,136	23,130
207.74	7,620	19,114	208.26	8,146	23,212
207.75	7,630	19,190	208.27	8,157	23,293
207.76	7,640	19,267	208.28	8,167	23,375
207.77	7,650	19,343	208.29	8,178	23,456
207.78	7,660	19,420	208.30	8,188	23,538
207.79	7,670	19,496	208.31	8,198	23,620
207.80	7,679	19,573	208.32	8,209	23,702
207.81	7,689	19,650	208.33	8,219	23,784
207.82	7,699	19,727	208.34	8,230	23,867
207.83	7,709	19,804	208.35	8,240	23,949
207.84	7,719	19,881	208.36	8,250	24,031
207.85	7,729	19,958	208.37	8,261	24,114
207.86	7,738	20,036	208.38	8,271	24,197
207.87	7,748	20,113	208.39	8,282	24,279
207.88	7,758	20,191	208.40	8,292	24,362
207.89	7,768	20,268	208.41	8,302	24,445
207.90	7,778	20,346	208.42	8,313	24,528
207.91	7,788	20,424	208.43	8,323	24,611
207.92	7,797	20,502	208.44	8,334	24,695
207.93	7,807	20,580	208.45	8,344	24,778

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.46	8,354	24,862
208.47	8,365	24,945
208.48	8,375	25,029
208.49	8,386	25,113
208.50	8,396	25,197
208.51	8,406	25,281
208.52	8,417	25,365
208.53	8,427	25,449
208.54	8,438	25,533
208.55	8,448	25,618
208.56	8,458	25,702
208.57	8,469	25,787
208.58	8,479	25,872
208.59	8,490	25,956
208.60	8,500	26,041
208.61	8,510	26,126
208.62	8,521	26,212
208.63	8,531	26,297
208.64	8,542	26,382
208.65	8,552	26,468
208.66	8,562	26,553
208.67	8,573	26,639
208.68	8,583	26,725
208.69	8,594	26,811
208.70	8,604	26,897
208.71	8,614	26,983
208.72	8,625	27,069
208.73	8,635	27,155
208.74	8,646	27,242
208.75	8,656	27,328
208.76	8,666	27,415
208.77	8,677	27,501
208.78	8,687	27,588
208.79	8,698	27,675
208.80	8,708	27,762
208.81	8,718	27,849
208.82	8,729	27,937
208.83	8,739	28,024
208.84	8,750	28,111
208.85	8,760	28,199
208.86	8,770	28,287
208.87	8,781	28,374
208.88	8,791	28,462
208.89	8,802	28,550
208.90	8,812	28,638
208.91	8,822	28,726
208.92	8,833	28,815
208.93	8,843	28,903
208.94	8,854	28,992
208.95	8,864	29,080
208.96	8,874	29,169
208.97	8,885	29,258
208.98	8,895	29,346
208.99	8,906	29,435
209.00	**8,916**	**29,525**

Summary for Pond B-39: Basin #39

Inflow Area = 1.884 ac, 41.56% Impervious, Inflow Depth = 2.37" for Future 2 yr event
Inflow = 4.51 cfs @ 12.17 hrs, Volume= 0.372 af
Outflow = 0.98 cfs @ 12.63 hrs, Volume= 0.298 af, Atten= 78%, Lag= 27.4 min
Primary = 0.98 cfs @ 12.63 hrs, Volume= 0.298 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 203.04' @ 12.63 hrs Surf.Area= 3,938 sf Storage= 8,009 cf

Plug-Flow detention time= 219.9 min calculated for 0.297 af (80% of inflow)
Center-of-Mass det. time= 137.6 min (932.0 - 794.4)

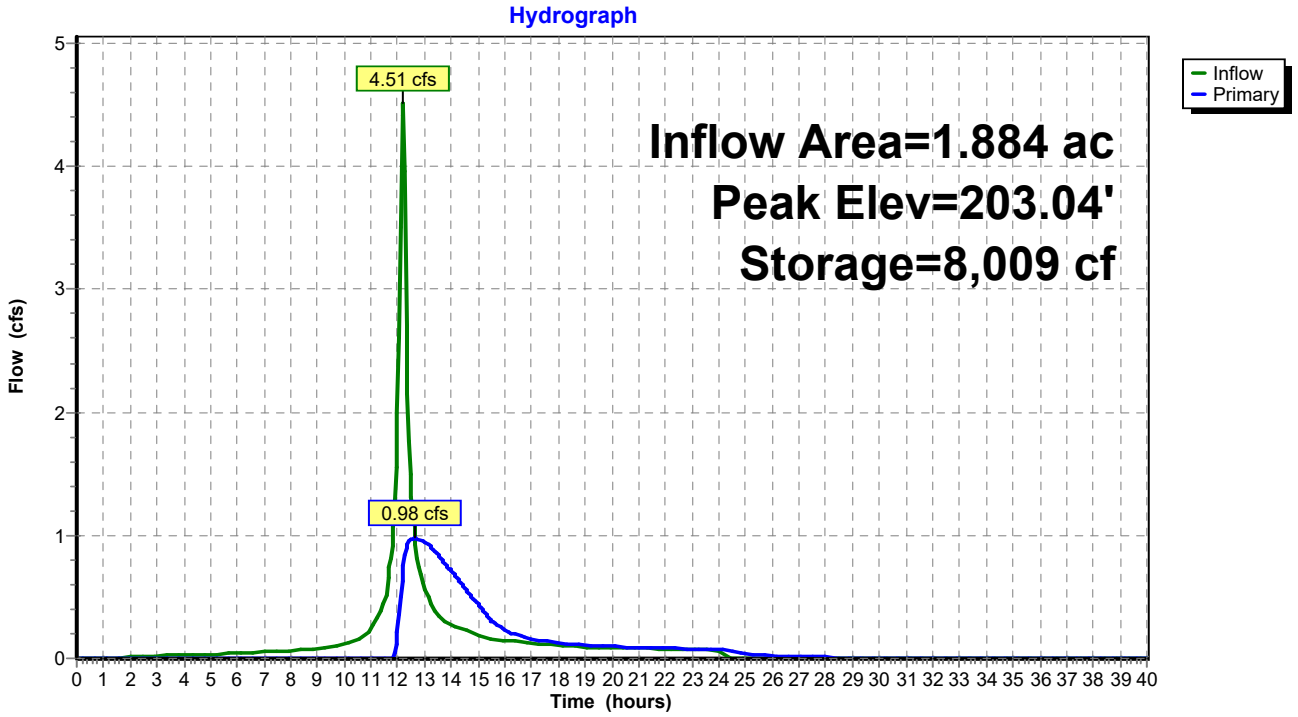
Volume	Invert	Avail.Storage	Storage Description
#1	200.30'	16,777 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.30	0	0	0
201.00	2,928	1,025	1,025
202.00	3,408	3,168	4,193
203.00	3,917	3,663	7,855
204.00	4,454	4,186	12,041
205.00	5,019	4,737	16,777

Device	Routing	Invert	Outlet Devices
#1	Primary	200.30'	**18.0" Round Culvert** L= 38.0' Ke= 0.500 Inlet / Outlet Invert= 200.30' / 200.11' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	201.71'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	203.04'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	204.50'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.98 cfs @ 12.63 hrs HW=203.04' (Free Discharge)
- **1=Culvert** (Passes 0.98 cfs of 11.44 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.98 cfs @ 5.00 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-39: Basin #39



Stage-Discharge for Pond B-39: Basin #39

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.07
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.07
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.08
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.09
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.10
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.11
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.12
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.13
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.14
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.16
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.17
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.18
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.19
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.20
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.22
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.23
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.24
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.26
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.27
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.28
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.30
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.31
200.52	0.00	201.04	0.00	201.56	0.00	202.08	0.32
200.53	0.00	201.05	0.00	201.57	0.00	202.09	0.34
200.54	0.00	201.06	0.00	201.58	0.00	202.10	0.35
200.55	0.00	201.07	0.00	201.59	0.00	202.11	0.36
200.56	0.00	201.08	0.00	201.60	0.00	202.12	0.38
200.57	0.00	201.09	0.00	201.61	0.00	202.13	0.39
200.58	0.00	201.10	0.00	201.62	0.00	202.14	0.40
200.59	0.00	201.11	0.00	201.63	0.00	202.15	0.41
200.60	0.00	201.12	0.00	201.64	0.00	202.16	0.43
200.61	0.00	201.13	0.00	201.65	0.00	202.17	0.44
200.62	0.00	201.14	0.00	201.66	0.00	202.18	0.45
200.63	0.00	201.15	0.00	201.67	0.00	202.19	0.46
200.64	0.00	201.16	0.00	201.68	0.00	202.20	0.47
200.65	0.00	201.17	0.00	201.69	0.00	202.21	0.47
200.66	0.00	201.18	0.00	201.70	0.00	202.22	0.48
200.67	0.00	201.19	0.00	201.71	0.00	202.23	0.49
200.68	0.00	201.20	0.00	201.72	0.00	202.24	0.50
200.69	0.00	201.21	0.00	201.73	0.00	202.25	0.51
200.70	0.00	201.22	0.00	201.74	0.00	202.26	0.52
200.71	0.00	201.23	0.00	201.75	0.01	202.27	0.53
200.72	0.00	201.24	0.00	201.76	0.01	202.28	0.53
200.73	0.00	201.25	0.00	201.77	0.01	202.29	0.54
200.74	0.00	201.26	0.00	201.78	0.02	202.30	0.55
200.75	0.00	201.27	0.00	201.79	0.02	202.31	0.56
200.76	0.00	201.28	0.00	201.80	0.02	202.32	0.57
200.77	0.00	201.29	0.00	201.81	0.03	202.33	0.58
200.78	0.00	201.30	0.00	201.82	0.04	202.34	0.58
200.79	0.00	201.31	0.00	201.83	0.04	202.35	0.59
200.80	0.00	201.32	0.00	201.84	0.05	202.36	0.60
200.81	0.00	201.33	0.00	201.85	0.06	202.37	0.61

Stage-Discharge for Pond B-39: Basin #39 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.38	0.61	202.90	0.92	203.42	4.15	203.94	12.00
202.39	0.62	202.91	0.92	203.43	4.27	203.95	12.17
202.40	0.63	202.92	0.93	203.44	4.39	203.96	12.35
202.41	0.63	202.93	0.93	203.45	4.52	203.97	12.53
202.42	0.64	202.94	0.94	203.46	4.64	203.98	12.70
202.43	0.65	202.95	0.94	203.47	4.77	203.99	12.88
202.44	0.66	202.96	0.95	203.48	4.90	204.00	13.06
202.45	0.66	202.97	0.95	203.49	5.03	204.01	13.24
202.46	0.67	202.98	0.95	203.50	5.16	204.02	13.42
202.47	0.68	202.99	0.96	203.51	5.29	204.03	13.61
202.48	0.68	203.00	0.96	203.52	5.43	204.04	13.79
202.49	0.69	203.01	0.97	203.53	5.56	204.05	13.97
202.50	0.69	203.02	0.97	203.54	5.70	204.06	14.16
202.51	0.70	203.03	0.98	203.55	5.83	204.07	14.34
202.52	0.71	203.04	0.98	203.56	5.97	204.08	14.53
202.53	0.71	203.05	1.00	203.57	6.11	204.09	14.71
202.54	0.72	203.06	1.03	203.58	6.25	204.10	14.86
202.55	0.73	203.07	1.06	203.59	6.40	204.11	14.88
202.56	0.73	203.08	1.10	203.60	6.54	204.12	14.91
202.57	0.74	203.09	1.15	203.61	6.68	204.13	14.93
202.58	0.74	203.10	1.20	203.62	6.83	204.14	14.96
202.59	0.75	203.11	1.26	203.63	6.97	204.15	14.98
202.60	0.76	203.12	1.31	203.64	7.12	204.16	15.01
202.61	0.76	203.13	1.37	203.65	7.27	204.17	15.03
202.62	0.77	203.14	1.44	203.66	7.42	204.18	15.05
202.63	0.77	203.15	1.51	203.67	7.57	204.19	15.08
202.64	0.78	203.16	1.58	203.68	7.72	204.20	15.10
202.65	0.79	203.17	1.65	203.69	7.88	204.21	15.13
202.66	0.79	203.18	1.72	203.70	8.03	204.22	15.15
202.67	0.80	203.19	1.80	203.71	8.18	204.23	15.17
202.68	0.80	203.20	1.88	203.72	8.34	204.24	15.20
202.69	0.81	203.21	1.97	203.73	8.50	204.25	15.22
202.70	0.81	203.22	2.05	203.74	8.65	204.26	15.24
202.71	0.82	203.23	2.14	203.75	8.81	204.27	15.27
202.72	0.82	203.24	2.23	203.76	8.97	204.28	15.29
202.73	0.83	203.25	2.32	203.77	9.13	204.29	15.32
202.74	0.83	203.26	2.41	203.78	9.29	204.30	15.34
202.75	0.84	203.27	2.51	203.79	9.46	204.31	15.36
202.76	0.85	203.28	2.61	203.80	9.62	204.32	15.39
202.77	0.85	203.29	2.70	203.81	9.78	204.33	15.41
202.78	0.86	203.30	2.81	203.82	9.95	204.34	15.43
202.79	0.86	203.31	2.91	203.83	10.11	204.35	15.46
202.80	0.87	203.32	3.01	203.84	10.28	204.36	15.48
202.81	0.87	203.33	3.12	203.85	10.45	204.37	15.50
202.82	0.88	203.34	3.23	203.86	10.62	204.38	15.53
202.83	0.88	203.35	3.34	203.87	10.79	204.39	15.55
202.84	0.89	203.36	3.45	203.88	10.96	204.40	15.57
202.85	0.89	203.37	3.56	203.89	11.13	204.41	15.60
202.86	0.90	203.38	3.68	203.90	11.30	204.42	15.62
202.87	0.90	203.39	3.79	203.91	11.47	204.43	15.64
202.88	0.91	203.40	3.91	203.92	11.65	204.44	15.67
202.89	0.91	203.41	4.03	203.93	11.82	204.45	15.69

Stage-Discharge for Pond B-39: Basin #39 (continued)

Elevation (feet)	Primary (cfs)
204.46	15.71
204.47	15.74
204.48	15.76
204.49	15.78
204.50	15.80
204.51	15.94
204.52	16.18
204.53	16.48
204.54	16.83
204.55	17.23
204.56	17.67
204.57	18.14
204.58	18.64
204.59	19.18
204.60	19.75
204.61	20.35
204.62	20.97
204.63	21.62
204.64	22.29
204.65	22.99
204.66	23.71
204.67	24.46
204.68	25.22
204.69	26.01
204.70	26.82
204.71	27.69
204.72	28.58
204.73	29.50
204.74	30.45
204.75	31.42
204.76	32.42
204.77	33.44
204.78	34.48
204.79	35.55
204.80	36.65
204.81	37.76
204.82	38.91
204.83	40.08
204.84	41.27
204.85	42.48
204.86	43.72
204.87	44.99
204.88	46.28
204.89	47.59
204.90	48.93
204.91	50.31
204.92	51.73
204.93	53.17
204.94	54.63
204.95	56.12
204.96	57.64
204.97	59.19
204.98	60.76
204.99	62.35
205.00	**63.98**

Stage-Area-Storage for Pond B-39: Basin #39

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.30	0	0	200.82	2,175	566
200.31	42	0	200.83	2,217	587
200.32	84	1	200.84	2,259	610
200.33	125	2	200.85	2,301	633
200.34	167	3	200.86	2,342	656
200.35	209	5	200.87	2,384	680
200.36	251	8	200.88	2,426	704
200.37	293	10	200.89	2,468	728
200.38	335	13	200.90	2,510	753
200.39	376	17	200.91	2,552	778
200.40	418	21	200.92	2,593	804
200.41	460	25	200.93	2,635	830
200.42	502	30	200.94	2,677	857
200.43	544	35	200.95	2,719	884
200.44	586	41	200.96	2,761	911
200.45	627	47	200.97	2,803	939
200.46	669	54	200.98	2,844	967
200.47	711	60	200.99	2,886	996
200.48	753	68	201.00	2,928	1,025
200.49	795	76	201.01	2,933	1,054
200.50	837	84	201.02	2,938	1,083
200.51	878	92	201.03	2,942	1,113
200.52	920	101	201.04	2,947	1,142
200.53	962	111	201.05	2,952	1,172
200.54	1,004	120	201.06	2,957	1,201
200.55	1,046	131	201.07	2,962	1,231
200.56	1,088	141	201.08	2,966	1,261
200.57	1,129	152	201.09	2,971	1,290
200.58	1,171	164	201.10	2,976	1,320
200.59	1,213	176	201.11	2,981	1,350
200.60	1,255	188	201.12	2,986	1,380
200.61	1,297	201	201.13	2,990	1,409
200.62	1,339	214	201.14	2,995	1,439
200.63	1,380	228	201.15	3,000	1,469
200.64	1,422	242	201.16	3,005	1,499
200.65	1,464	256	201.17	3,010	1,529
200.66	1,506	271	201.18	3,014	1,560
200.67	1,548	286	201.19	3,019	1,590
200.68	1,589	302	201.20	3,024	1,620
200.69	1,631	318	201.21	3,029	1,650
200.70	1,673	335	201.22	3,034	1,681
200.71	1,715	352	201.23	3,038	1,711
200.72	1,757	369	201.24	3,043	1,741
200.73	1,799	387	201.25	3,048	1,772
200.74	1,840	405	201.26	3,053	1,802
200.75	1,882	424	201.27	3,058	1,833
200.76	1,924	443	201.28	3,062	1,863
200.77	1,966	462	201.29	3,067	1,894
200.78	2,008	482	201.30	3,072	1,925
200.79	2,050	502	201.31	3,077	1,956
200.80	2,091	523	201.32	3,082	1,986
200.81	2,133	544	201.33	3,086	2,017

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.34	3,091	2,048	201.86	3,341	3,720
201.35	3,096	2,079	201.87	3,346	3,754
201.36	3,101	2,110	201.88	3,350	3,787
201.37	3,106	2,141	201.89	3,355	3,821
201.38	3,110	2,172	201.90	3,360	3,854
201.39	3,115	2,203	201.91	3,365	3,888
201.40	3,120	2,234	201.92	3,370	3,922
201.41	3,125	2,266	201.93	3,374	3,955
201.42	3,130	2,297	201.94	3,379	3,989
201.43	3,134	2,328	201.95	3,384	4,023
201.44	3,139	2,360	201.96	3,389	4,057
201.45	3,144	2,391	201.97	3,394	4,091
201.46	3,149	2,422	201.98	3,398	4,125
201.47	3,154	2,454	201.99	3,403	4,159
201.48	3,158	2,486	202.00	3,408	4,193
201.49	3,163	2,517	202.01	3,413	4,227
201.50	3,168	2,549	202.02	3,418	4,261
201.51	3,173	2,581	202.03	3,423	4,295
201.52	3,178	2,612	202.04	3,428	4,330
201.53	3,182	2,644	202.05	3,433	4,364
201.54	3,187	2,676	202.06	3,439	4,398
201.55	3,192	2,708	202.07	3,444	4,433
201.56	3,197	2,740	202.08	3,449	4,467
201.57	3,202	2,772	202.09	3,454	4,502
201.58	3,206	2,804	202.10	3,459	4,536
201.59	3,211	2,836	202.11	3,464	4,571
201.60	3,216	2,868	202.12	3,469	4,605
201.61	3,221	2,900	202.13	3,474	4,640
201.62	3,226	2,932	202.14	3,479	4,675
201.63	3,230	2,965	202.15	3,484	4,710
201.64	3,235	2,997	202.16	3,489	4,745
201.65	3,240	3,029	202.17	3,495	4,780
201.66	3,245	3,062	202.18	3,500	4,814
201.67	3,250	3,094	202.19	3,505	4,850
201.68	3,254	3,127	202.20	3,510	4,885
201.69	3,259	3,159	202.21	3,515	4,920
201.70	3,264	3,192	202.22	3,520	4,955
201.71	3,269	3,225	202.23	3,525	4,990
201.72	3,274	3,257	202.24	3,530	5,025
201.73	3,278	3,290	202.25	3,535	5,061
201.74	3,283	3,323	202.26	3,540	5,096
201.75	3,288	3,356	202.27	3,545	5,132
201.76	3,293	3,389	202.28	3,551	5,167
201.77	3,298	3,422	202.29	3,556	5,203
201.78	3,302	3,455	202.30	3,561	5,238
201.79	3,307	3,488	202.31	3,566	5,274
201.80	3,312	3,521	202.32	3,571	5,309
201.81	3,317	3,554	202.33	3,576	5,345
201.82	3,322	3,587	202.34	3,581	5,381
201.83	3,326	3,620	202.35	3,586	5,417
201.84	3,331	3,654	202.36	3,591	5,453
201.85	3,336	3,687	202.37	3,596	5,489

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.38	3,601	5,525	202.90	3,866	7,466
202.39	3,607	5,561	202.91	3,871	7,505
202.40	3,612	5,597	202.92	3,876	7,544
202.41	3,617	5,633	202.93	3,881	7,582
202.42	3,622	5,669	202.94	3,886	7,621
202.43	3,627	5,705	202.95	3,892	7,660
202.44	3,632	5,742	202.96	3,897	7,699
202.45	3,637	5,778	202.97	3,902	7,738
202.46	3,642	5,814	202.98	3,907	7,777
202.47	3,647	5,851	202.99	3,912	7,816
202.48	3,652	5,887	203.00	3,917	7,855
202.49	3,657	5,924	203.01	3,922	7,894
202.50	3,663	5,960	203.02	3,928	7,934
202.51	3,668	5,997	203.03	3,933	7,973
202.52	3,673	6,034	203.04	3,938	8,012
202.53	3,678	6,071	203.05	3,944	8,052
202.54	3,683	6,107	203.06	3,949	8,091
202.55	3,688	6,144	203.07	3,955	8,131
202.56	3,693	6,181	203.08	3,960	8,170
202.57	3,698	6,218	203.09	3,965	8,210
202.58	3,703	6,255	203.10	3,971	8,250
202.59	3,708	6,292	203.11	3,976	8,289
202.60	3,713	6,329	203.12	3,981	8,329
202.61	3,718	6,366	203.13	3,987	8,369
202.62	3,724	6,404	203.14	3,992	8,409
202.63	3,729	6,441	203.15	3,998	8,449
202.64	3,734	6,478	203.16	4,003	8,489
202.65	3,739	6,516	203.17	4,008	8,529
202.66	3,744	6,553	203.18	4,014	8,569
202.67	3,749	6,590	203.19	4,019	8,609
202.68	3,754	6,628	203.20	4,024	8,649
202.69	3,759	6,665	203.21	4,030	8,690
202.70	3,764	6,703	203.22	4,035	8,730
202.71	3,769	6,741	203.23	4,041	8,770
202.72	3,774	6,778	203.24	4,046	8,811
202.73	3,780	6,816	203.25	4,051	8,851
202.74	3,785	6,854	203.26	4,057	8,892
202.75	3,790	6,892	203.27	4,062	8,932
202.76	3,795	6,930	203.28	4,067	8,973
202.77	3,800	6,968	203.29	4,073	9,014
202.78	3,805	7,006	203.30	4,078	9,055
202.79	3,810	7,044	203.31	4,083	9,095
202.80	3,815	7,082	203.32	4,089	9,136
202.81	3,820	7,120	203.33	4,094	9,177
202.82	3,825	7,158	203.34	4,100	9,218
202.83	3,830	7,197	203.35	4,105	9,259
202.84	3,836	7,235	203.36	4,110	9,300
202.85	3,841	7,273	203.37	4,116	9,341
202.86	3,846	7,312	203.38	4,121	9,383
202.87	3,851	7,350	203.39	4,126	9,424
202.88	3,856	7,389	203.40	4,132	9,465
202.89	3,861	7,428	203.41	4,137	9,506

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.42	4,143	9,548	203.94	4,422	11,775
203.43	4,148	9,589	203.95	4,427	11,819
203.44	4,153	9,631	203.96	4,433	11,863
203.45	4,159	9,672	203.97	4,438	11,907
203.46	4,164	9,714	203.98	4,443	11,952
203.47	4,169	9,756	203.99	4,449	11,996
203.48	4,175	9,797	204.00	4,454	12,041
203.49	4,180	9,839	204.01	4,460	12,085
203.50	4,186	9,881	204.02	4,465	12,130
203.51	4,191	9,923	204.03	4,471	12,175
203.52	4,196	9,965	204.04	4,477	12,219
203.53	4,202	10,007	204.05	4,482	12,264
203.54	4,207	10,049	204.06	4,488	12,309
203.55	4,212	10,091	204.07	4,494	12,354
203.56	4,218	10,133	204.08	4,499	12,399
203.57	4,223	10,175	204.09	4,505	12,444
203.58	4,228	10,217	204.10	4,511	12,489
203.59	4,234	10,260	204.11	4,516	12,534
203.60	4,239	10,302	204.12	4,522	12,579
203.61	4,245	10,345	204.13	4,527	12,625
203.62	4,250	10,387	204.14	4,533	12,670
203.63	4,255	10,430	204.15	4,539	12,715
203.64	4,261	10,472	204.16	4,544	12,761
203.65	4,266	10,515	204.17	4,550	12,806
203.66	4,271	10,557	204.18	4,556	12,852
203.67	4,277	10,600	204.19	4,561	12,897
203.68	4,282	10,643	204.20	4,567	12,943
203.69	4,288	10,686	204.21	4,573	12,989
203.70	4,293	10,729	204.22	4,578	13,034
203.71	4,298	10,772	204.23	4,584	13,080
203.72	4,304	10,815	204.24	4,590	13,126
203.73	4,309	10,858	204.25	4,595	13,172
203.74	4,314	10,901	204.26	4,601	13,218
203.75	4,320	10,944	204.27	4,607	13,264
203.76	4,325	10,987	204.28	4,612	13,310
203.77	4,330	11,031	204.29	4,618	13,356
203.78	4,336	11,074	204.30	4,624	13,402
203.79	4,341	11,117	204.31	4,629	13,449
203.80	4,347	11,161	204.32	4,635	13,495
203.81	4,352	11,204	204.33	4,640	13,541
203.82	4,357	11,248	204.34	4,646	13,588
203.83	4,363	11,291	204.35	4,652	13,634
203.84	4,368	11,335	204.36	4,657	13,681
203.85	4,373	11,379	204.37	4,663	13,727
203.86	4,379	11,423	204.38	4,669	13,774
203.87	4,384	11,466	204.39	4,674	13,821
203.88	4,390	11,510	204.40	4,680	13,868
203.89	4,395	11,554	204.41	4,686	13,914
203.90	4,400	11,598	204.42	4,691	13,961
203.91	4,406	11,642	204.43	4,697	14,008
203.92	4,411	11,686	204.44	4,703	14,055
203.93	4,416	11,730	204.45	4,708	14,102

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.46	4,714	14,149
204.47	4,720	14,197
204.48	4,725	14,244
204.49	4,731	14,291
204.50	4,737	14,338
204.51	4,742	14,386
204.52	4,748	14,433
204.53	4,753	14,481
204.54	4,759	14,528
204.55	4,765	14,576
204.56	4,770	14,624
204.57	4,776	14,671
204.58	4,782	14,719
204.59	4,787	14,767
204.60	4,793	14,815
204.61	4,799	14,863
204.62	4,804	14,911
204.63	4,810	14,959
204.64	4,816	15,007
204.65	4,821	15,055
204.66	4,827	15,103
204.67	4,833	15,152
204.68	4,838	15,200
204.69	4,844	15,249
204.70	4,850	15,297
204.71	4,855	15,346
204.72	4,861	15,394
204.73	4,866	15,443
204.74	4,872	15,491
204.75	4,878	15,540
204.76	4,883	15,589
204.77	4,889	15,638
204.78	4,895	15,687
204.79	4,900	15,736
204.80	4,906	15,785
204.81	4,912	15,834
204.82	4,917	15,883
204.83	4,923	15,932
204.84	4,929	15,981
204.85	4,934	16,031
204.86	4,940	16,080
204.87	4,946	16,130
204.88	4,951	16,179
204.89	4,957	16,229
204.90	4,963	16,278
204.91	4,968	16,328
204.92	4,974	16,378
204.93	4,979	16,427
204.94	4,985	16,477
204.95	4,991	16,527
204.96	4,996	16,577
204.97	5,002	16,627
204.98	5,008	16,677
204.99	5,013	16,727
205.00	**5,019**	**16,777**

Summary for Pond B-40: Basin #40

Inflow Area = 1.888 ac, 47.19% Impervious, Inflow Depth = 2.49" for Future 2 yr event
Inflow = 4.72 cfs @ 12.17 hrs, Volume= 0.392 af
Outflow = 3.03 cfs @ 12.29 hrs, Volume= 0.309 af, Atten= 36%, Lag= 7.2 min
Primary = 3.03 cfs @ 12.29 hrs, Volume= 0.309 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 203.31' @ 12.29 hrs Surf.Area= 4,004 sf Storage= 6,156 cf

Plug-Flow detention time= 168.2 min calculated for 0.309 af (79% of inflow)
Center-of-Mass det. time= 83.3 min (872.5 - 789.2)

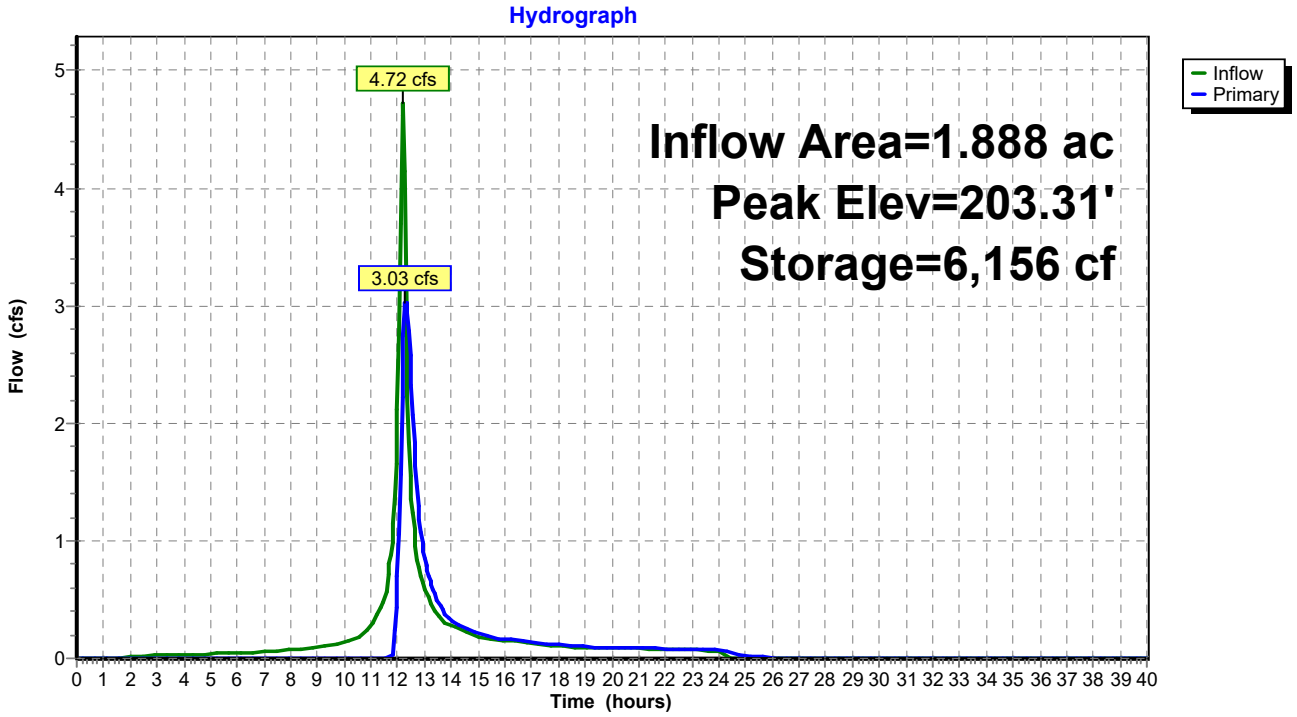
Volume	Invert	Avail.Storage	Storage Description
#1	201.30'	18,339 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
201.30	0	0	0
202.00	3,521	1,232	1,232
203.00	3,886	3,704	4,936
204.00	4,266	4,076	9,012
205.00	4,660	4,463	13,475
206.00	5,069	4,865	18,339

Device	Routing	Invert	Outlet Devices
#1	Primary	201.30'	**18.0" Round Culvert** L= 38.0' Ke= 0.500 Inlet / Outlet Invert= 201.30' / 201.11' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	202.65'	**24.0" W x 6.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	204.67'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	205.49'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.02 cfs @ 12.29 hrs HW=203.31' (Free Discharge)
- **1=Culvert** (Passes 3.02 cfs of 7.99 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 3.02 cfs @ 3.02 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-40: Basin #40



Stage-Discharge for Pond B-40: Basin #40

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.30	0.00	201.82	0.00	202.34	0.00	202.86	0.62
201.31	0.00	201.83	0.00	202.35	0.00	202.87	0.66
201.32	0.00	201.84	0.00	202.36	0.00	202.88	0.71
201.33	0.00	201.85	0.00	202.37	0.00	202.89	0.75
201.34	0.00	201.86	0.00	202.38	0.00	202.90	0.80
201.35	0.00	201.87	0.00	202.39	0.00	202.91	0.85
201.36	0.00	201.88	0.00	202.40	0.00	202.92	0.90
201.37	0.00	201.89	0.00	202.41	0.00	202.93	0.95
201.38	0.00	201.90	0.00	202.42	0.00	202.94	1.00
201.39	0.00	201.91	0.00	202.43	0.00	202.95	1.05
201.40	0.00	201.92	0.00	202.44	0.00	202.96	1.11
201.41	0.00	201.93	0.00	202.45	0.00	202.97	1.16
201.42	0.00	201.94	0.00	202.46	0.00	202.98	1.22
201.43	0.00	201.95	0.00	202.47	0.00	202.99	1.27
201.44	0.00	201.96	0.00	202.48	0.00	203.00	1.33
201.45	0.00	201.97	0.00	202.49	0.00	203.01	1.39
201.46	0.00	201.98	0.00	202.50	0.00	203.02	1.44
201.47	0.00	201.99	0.00	202.51	0.00	203.03	1.50
201.48	0.00	202.00	0.00	202.52	0.00	203.04	1.56
201.49	0.00	202.01	0.00	202.53	0.00	203.05	1.62
201.50	0.00	202.02	0.00	202.54	0.00	203.06	1.69
201.51	0.00	202.03	0.00	202.55	0.00	203.07	1.75
201.52	0.00	202.04	0.00	202.56	0.00	203.08	1.81
201.53	0.00	202.05	0.00	202.57	0.00	203.09	1.87
201.54	0.00	202.06	0.00	202.58	0.00	203.10	1.94
201.55	0.00	202.07	0.00	202.59	0.00	203.11	2.00
201.56	0.00	202.08	0.00	202.60	0.00	203.12	2.07
201.57	0.00	202.09	0.00	202.61	0.00	203.13	2.13
201.58	0.00	202.10	0.00	202.62	0.00	203.14	2.20
201.59	0.00	202.11	0.00	202.63	0.00	203.15	2.27
201.60	0.00	202.12	0.00	202.64	0.00	203.16	2.33
201.61	0.00	202.13	0.00	202.65	0.00	203.17	2.39
201.62	0.00	202.14	0.00	202.66	0.01	203.18	2.44
201.63	0.00	202.15	0.00	202.67	0.02	203.19	2.50
201.64	0.00	202.16	0.00	202.68	0.03	203.20	2.55
201.65	0.00	202.17	0.00	202.69	0.05	203.21	2.60
201.66	0.00	202.18	0.00	202.70	0.07	203.22	2.64
201.67	0.00	202.19	0.00	202.71	0.09	203.23	2.69
201.68	0.00	202.20	0.00	202.72	0.12	203.24	2.74
201.69	0.00	202.21	0.00	202.73	0.15	203.25	2.78
201.70	0.00	202.22	0.00	202.74	0.17	203.26	2.82
201.71	0.00	202.23	0.00	202.75	0.20	203.27	2.87
201.72	0.00	202.24	0.00	202.76	0.23	203.28	2.91
201.73	0.00	202.25	0.00	202.77	0.27	203.29	2.95
201.74	0.00	202.26	0.00	202.78	0.30	203.30	2.99
201.75	0.00	202.27	0.00	202.79	0.34	203.31	3.03
201.76	0.00	202.28	0.00	202.80	0.37	203.32	3.07
201.77	0.00	202.29	0.00	202.81	0.41	203.33	3.11
201.78	0.00	202.30	0.00	202.82	0.45	203.34	3.15
201.79	0.00	202.31	0.00	202.83	0.49	203.35	3.19
201.80	0.00	202.32	0.00	202.84	0.53	203.36	3.22
201.81	0.00	202.33	0.00	202.85	0.57	203.37	3.26

Stage-Discharge for Pond B-40: Basin #40 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.38	3.30	203.90	4.80	204.42	5.93	204.94	8.68
203.39	3.33	203.91	4.83	204.43	5.95	204.95	8.80
203.40	3.37	203.92	4.85	204.44	5.97	204.96	8.92
203.41	3.40	203.93	4.87	204.45	5.99	204.97	9.04
203.42	3.44	203.94	4.90	204.46	6.01	204.98	9.16
203.43	3.47	203.95	4.92	204.47	6.03	204.99	9.29
203.44	3.51	203.96	4.95	204.48	6.05	205.00	9.41
203.45	3.54	203.97	4.97	204.49	6.07	205.01	9.54
203.46	3.57	203.98	4.99	204.50	6.08	205.02	9.67
203.47	3.60	203.99	5.02	204.51	6.10	205.03	9.80
203.48	3.64	204.00	5.04	204.52	6.12	205.04	9.93
203.49	3.67	204.01	5.06	204.53	6.14	205.05	10.06
203.50	3.70	204.02	5.09	204.54	6.16	205.06	10.20
203.51	3.73	204.03	5.11	204.55	6.18	205.07	10.33
203.52	3.76	204.04	5.13	204.56	6.20	205.08	10.47
203.53	3.80	204.05	5.15	204.57	6.22	205.09	10.61
203.54	3.83	204.06	5.18	204.58	6.24	205.10	10.75
203.55	3.86	204.07	5.20	204.59	6.25	205.11	10.89
203.56	3.89	204.08	5.22	204.60	6.27	205.12	11.03
203.57	3.92	204.09	5.24	204.61	6.29	205.13	11.17
203.58	3.95	204.10	5.26	204.62	6.31	205.14	11.32
203.59	3.98	204.11	5.29	204.63	6.33	205.15	11.46
203.60	4.01	204.12	5.31	204.64	6.35	205.16	11.61
203.61	4.04	204.13	5.33	204.65	6.36	205.17	11.76
203.62	4.06	204.14	5.35	204.66	6.38	205.18	11.91
203.63	4.09	204.15	5.37	204.67	6.40	205.19	12.06
203.64	4.12	204.16	5.40	204.68	6.43	205.20	12.21
203.65	4.15	204.17	5.42	204.69	6.47	205.21	12.36
203.66	4.18	204.18	5.44	204.70	6.52	205.22	12.52
203.67	4.21	204.19	5.46	204.71	6.58	205.23	12.67
203.68	4.23	204.20	5.48	204.72	6.64	205.24	12.83
203.69	4.26	204.21	5.50	204.73	6.70	205.25	12.99
203.70	4.29	204.22	5.52	204.74	6.77	205.26	13.15
203.71	4.32	204.23	5.54	204.75	6.84	205.27	13.31
203.72	4.34	204.24	5.57	204.76	6.91	205.28	13.47
203.73	4.37	204.25	5.59	204.77	6.99	205.29	13.63
203.74	4.40	204.26	5.61	204.78	7.07	205.30	13.79
203.75	4.42	204.27	5.63	204.79	7.16	205.31	13.95
203.76	4.45	204.28	5.65	204.80	7.24	205.32	14.12
203.77	4.48	204.29	5.67	204.81	7.33	205.33	14.28
203.78	4.50	204.30	5.69	204.82	7.42	205.34	14.45
203.79	4.53	204.31	5.71	204.83	7.51	205.35	14.62
203.80	4.55	204.32	5.73	204.84	7.61	205.36	14.79
203.81	4.58	204.33	5.75	204.85	7.71	205.37	14.96
203.82	4.60	204.34	5.77	204.86	7.81	205.38	15.13
203.83	4.63	204.35	5.79	204.87	7.91	205.39	15.30
203.84	4.65	204.36	5.81	204.88	8.02	205.40	15.47
203.85	4.68	204.37	5.83	204.89	8.12	205.41	15.60
203.86	4.70	204.38	5.85	204.90	8.23	205.42	15.62
203.87	4.73	204.39	5.87	204.91	8.34	205.43	15.64
203.88	4.75	204.40	5.89	204.92	8.45	205.44	15.67
203.89	4.78	204.41	5.91	204.93	8.57	205.45	15.69

Stage-Discharge for Pond B-40: Basin #40 (continued)

Elevation (feet)	Primary (cfs)
205.46	15.71
205.47	15.74
205.48	15.76
205.49	15.78
205.50	15.92
205.51	16.16
205.52	16.46
205.53	16.81
205.54	17.21
205.55	17.64
205.56	18.12
205.57	18.62
205.58	19.16
205.59	19.73
205.60	20.32
205.61	20.95
205.62	21.60
205.63	22.27
205.64	22.97
205.65	23.69
205.66	24.43
205.67	25.20
205.68	25.99
205.69	26.80
205.70	27.67
205.71	28.56
205.72	29.48
205.73	30.43
205.74	31.40
205.75	32.39
205.76	33.41
205.77	34.46
205.78	35.53
205.79	36.62
205.80	37.74
205.81	38.89
205.82	40.05
205.83	41.25
205.84	42.46
205.85	43.70
205.86	44.97
205.87	46.25
205.88	47.57
205.89	48.90
205.90	50.29
205.91	51.70
205.92	53.14
205.93	54.61
205.94	56.10
205.95	57.62
205.96	59.16
205.97	60.73
205.98	62.33
205.99	63.95
206.00	**65.60**

Stage-Area-Storage for Pond B-40: Basin #40

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.30	0	0	201.82	2,616	680
201.31	50	0	201.83	2,666	706
201.32	101	1	201.84	2,716	733
201.33	151	2	201.85	2,767	761
201.34	201	4	201.86	2,817	789
201.35	252	6	201.87	2,867	817
201.36	302	9	201.88	2,917	846
201.37	352	12	201.89	2,968	875
201.38	402	16	201.90	3,018	905
201.39	453	20	201.91	3,068	936
201.40	503	25	201.92	3,119	967
201.41	553	30	201.93	3,169	998
201.42	604	36	201.94	3,219	1,030
201.43	654	43	201.95	3,270	1,063
201.44	704	49	201.96	3,320	1,096
201.45	755	57	201.97	3,370	1,129
201.46	805	64	201.98	3,420	1,163
201.47	855	73	201.99	3,471	1,197
201.48	905	81	202.00	3,521	1,232
201.49	956	91	202.01	3,525	1,268
201.50	1,006	101	202.02	3,528	1,303
201.51	1,056	111	202.03	3,532	1,338
201.52	1,107	122	202.04	3,536	1,373
201.53	1,157	133	202.05	3,539	1,409
201.54	1,207	145	202.06	3,543	1,444
201.55	1,258	157	202.07	3,547	1,480
201.56	1,308	170	202.08	3,550	1,515
201.57	1,358	183	202.09	3,554	1,551
201.58	1,408	197	202.10	3,558	1,586
201.59	1,459	212	202.11	3,561	1,622
201.60	1,509	226	202.12	3,565	1,657
201.61	1,559	242	202.13	3,568	1,693
201.62	1,610	258	202.14	3,572	1,729
201.63	1,660	274	202.15	3,576	1,765
201.64	1,710	291	202.16	3,579	1,800
201.65	1,761	308	202.17	3,583	1,836
201.66	1,811	326	202.18	3,587	1,872
201.67	1,861	344	202.19	3,590	1,908
201.68	1,911	363	202.20	3,594	1,944
201.69	1,962	383	202.21	3,598	1,980
201.70	2,012	402	202.22	3,601	2,016
201.71	2,062	423	202.23	3,605	2,052
201.72	2,113	444	202.24	3,609	2,088
201.73	2,163	465	202.25	3,612	2,124
201.74	2,213	487	202.26	3,616	2,160
201.75	2,263	509	202.27	3,620	2,196
201.76	2,314	532	202.28	3,623	2,233
201.77	2,364	556	202.29	3,627	2,269
201.78	2,414	579	202.30	3,631	2,305
201.79	2,465	604	202.31	3,634	2,341
201.80	2,515	629	202.32	3,638	2,378
201.81	2,565	654	202.33	3,641	2,414

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.34	3,645	2,451	202.86	3,835	4,395
202.35	3,649	2,487	202.87	3,839	4,434
202.36	3,652	2,524	202.88	3,842	4,472
202.37	3,656	2,560	202.89	3,846	4,511
202.38	3,660	2,597	202.90	3,850	4,549
202.39	3,663	2,633	202.91	3,853	4,588
202.40	3,667	2,670	202.92	3,857	4,626
202.41	3,671	2,707	202.93	3,860	4,665
202.42	3,674	2,743	202.94	3,864	4,703
202.43	3,678	2,780	202.95	3,868	4,742
202.44	3,682	2,817	202.96	3,871	4,781
202.45	3,685	2,854	202.97	3,875	4,819
202.46	3,689	2,891	202.98	3,879	4,858
202.47	3,693	2,928	202.99	3,882	4,897
202.48	3,696	2,964	203.00	3,886	4,936
202.49	3,700	3,001	203.01	3,890	4,975
202.50	3,704	3,038	203.02	3,894	5,014
202.51	3,707	3,076	203.03	3,897	5,053
202.52	3,711	3,113	203.04	3,901	5,092
202.53	3,714	3,150	203.05	3,905	5,131
202.54	3,718	3,187	203.06	3,909	5,170
202.55	3,722	3,224	203.07	3,913	5,209
202.56	3,725	3,261	203.08	3,916	5,248
202.57	3,729	3,299	203.09	3,920	5,287
202.58	3,733	3,336	203.10	3,924	5,326
202.59	3,736	3,373	203.11	3,928	5,366
202.60	3,740	3,411	203.12	3,932	5,405
202.61	3,744	3,448	203.13	3,935	5,444
202.62	3,747	3,486	203.14	3,939	5,484
202.63	3,751	3,523	203.15	3,943	5,523
202.64	3,755	3,561	203.16	3,947	5,562
202.65	3,758	3,598	203.17	3,951	5,602
202.66	3,762	3,636	203.18	3,954	5,641
202.67	3,766	3,673	203.19	3,958	5,681
202.68	3,769	3,711	203.20	3,962	5,721
202.69	3,773	3,749	203.21	3,966	5,760
202.70	3,777	3,786	203.22	3,970	5,800
202.71	3,780	3,824	203.23	3,973	5,840
202.72	3,784	3,862	203.24	3,977	5,879
202.73	3,787	3,900	203.25	3,981	5,919
202.74	3,791	3,938	203.26	3,985	5,959
202.75	3,795	3,976	203.27	3,989	5,999
202.76	3,798	4,014	203.28	3,992	6,039
202.77	3,802	4,052	203.29	3,996	6,079
202.78	3,806	4,090	203.30	4,000	6,119
202.79	3,809	4,128	203.31	4,004	6,159
202.80	3,813	4,166	203.32	4,008	6,199
202.81	3,817	4,204	203.33	4,011	6,239
202.82	3,820	4,242	203.34	4,015	6,279
202.83	3,824	4,281	203.35	4,019	6,319
202.84	3,828	4,319	203.36	4,023	6,359
202.85	3,831	4,357	203.37	4,027	6,400

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.38	4,030	6,440	203.90	4,228	8,587
203.39	4,034	6,480	203.91	4,232	8,629
203.40	4,038	6,521	203.92	4,236	8,672
203.41	4,042	6,561	203.93	4,239	8,714
203.42	4,046	6,601	203.94	4,243	8,757
203.43	4,049	6,642	203.95	4,247	8,799
203.44	4,053	6,682	203.96	4,251	8,842
203.45	4,057	6,723	203.97	4,255	8,884
203.46	4,061	6,764	203.98	4,258	8,927
203.47	4,065	6,804	203.99	4,262	8,969
203.48	4,068	6,845	204.00	4,266	9,012
203.49	4,072	6,886	204.01	4,270	9,055
203.50	4,076	6,926	204.02	4,274	9,097
203.51	4,080	6,967	204.03	4,278	9,140
203.52	4,084	7,008	204.04	4,282	9,183
203.53	4,087	7,049	204.05	4,286	9,226
203.54	4,091	7,090	204.06	4,290	9,269
203.55	4,095	7,131	204.07	4,294	9,311
203.56	4,099	7,172	204.08	4,298	9,354
203.57	4,103	7,213	204.09	4,301	9,397
203.58	4,106	7,254	204.10	4,305	9,440
203.59	4,110	7,295	204.11	4,309	9,483
203.60	4,114	7,336	204.12	4,313	9,527
203.61	4,118	7,377	204.13	4,317	9,570
203.62	4,122	7,418	204.14	4,321	9,613
203.63	4,125	7,459	204.15	4,325	9,656
203.64	4,129	7,501	204.16	4,329	9,699
203.65	4,133	7,542	204.17	4,333	9,743
203.66	4,137	7,583	204.18	4,337	9,786
203.67	4,141	7,625	204.19	4,341	9,830
203.68	4,144	7,666	204.20	4,345	9,873
203.69	4,148	7,708	204.21	4,349	9,916
203.70	4,152	7,749	204.22	4,353	9,960
203.71	4,156	7,791	204.23	4,357	10,003
203.72	4,160	7,832	204.24	4,361	10,047
203.73	4,163	7,874	204.25	4,365	10,091
203.74	4,167	7,916	204.26	4,368	10,134
203.75	4,171	7,957	204.27	4,372	10,178
203.76	4,175	7,999	204.28	4,376	10,222
203.77	4,179	8,041	204.29	4,380	10,266
203.78	4,182	8,083	204.30	4,384	10,309
203.79	4,186	8,124	204.31	4,388	10,353
203.80	4,190	8,166	204.32	4,392	10,397
203.81	4,194	8,208	204.33	4,396	10,441
203.82	4,198	8,250	204.34	4,400	10,485
203.83	4,201	8,292	204.35	4,404	10,529
203.84	4,205	8,334	204.36	4,408	10,573
203.85	4,209	8,376	204.37	4,412	10,617
203.86	4,213	8,418	204.38	4,416	10,661
203.87	4,217	8,460	204.39	4,420	10,706
203.88	4,220	8,503	204.40	4,424	10,750
203.89	4,224	8,545	204.41	4,428	10,794

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.42	4,431	10,838	204.94	4,636	13,196
204.43	4,435	10,883	204.95	4,640	13,242
204.44	4,439	10,927	204.96	4,644	13,289
204.45	4,443	10,971	204.97	4,648	13,335
204.46	4,447	11,016	204.98	4,652	13,382
204.47	4,451	11,060	204.99	4,656	13,428
204.48	4,455	11,105	205.00	4,660	13,475
204.49	4,459	11,149	205.01	4,664	13,521
204.50	4,463	11,194	205.02	4,668	13,568
204.51	4,467	11,239	205.03	4,672	13,615
204.52	4,471	11,283	205.04	4,676	13,662
204.53	4,475	11,328	205.05	4,680	13,708
204.54	4,479	11,373	205.06	4,685	13,755
204.55	4,483	11,418	205.07	4,689	13,802
204.56	4,487	11,463	205.08	4,693	13,849
204.57	4,491	11,507	205.09	4,697	13,896
204.58	4,495	11,552	205.10	4,701	13,943
204.59	4,498	11,597	205.11	4,705	13,990
204.60	4,502	11,642	205.12	4,709	14,037
204.61	4,506	11,687	205.13	4,713	14,084
204.62	4,510	11,732	205.14	4,717	14,131
204.63	4,514	11,778	205.15	4,721	14,178
204.64	4,518	11,823	205.16	4,725	14,226
204.65	4,522	11,868	205.17	4,730	14,273
204.66	4,526	11,913	205.18	4,734	14,320
204.67	4,530	11,959	205.19	4,738	14,368
204.68	4,534	12,004	205.20	4,742	14,415
204.69	4,538	12,049	205.21	4,746	14,462
204.70	4,542	12,095	205.22	4,750	14,510
204.71	4,546	12,140	205.23	4,754	14,557
204.72	4,550	12,185	205.24	4,758	14,605
204.73	4,554	12,231	205.25	4,762	14,653
204.74	4,558	12,277	205.26	4,766	14,700
204.75	4,562	12,322	205.27	4,770	14,748
204.76	4,565	12,368	205.28	4,775	14,796
204.77	4,569	12,413	205.29	4,779	14,843
204.78	4,573	12,459	205.30	4,783	14,891
204.79	4,577	12,505	205.31	4,787	14,939
204.80	4,581	12,551	205.32	4,791	14,987
204.81	4,585	12,597	205.33	4,795	15,035
204.82	4,589	12,642	205.34	4,799	15,083
204.83	4,593	12,688	205.35	4,803	15,131
204.84	4,597	12,734	205.36	4,807	15,179
204.85	4,601	12,780	205.37	4,811	15,227
204.86	4,605	12,826	205.38	4,815	15,275
204.87	4,609	12,872	205.39	4,820	15,323
204.88	4,613	12,918	205.40	4,824	15,372
204.89	4,617	12,965	205.41	4,828	15,420
204.90	4,621	13,011	205.42	4,832	15,468
204.91	4,625	13,057	205.43	4,836	15,516
204.92	4,628	13,103	205.44	4,840	15,565
204.93	4,632	13,150	205.45	4,844	15,613

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

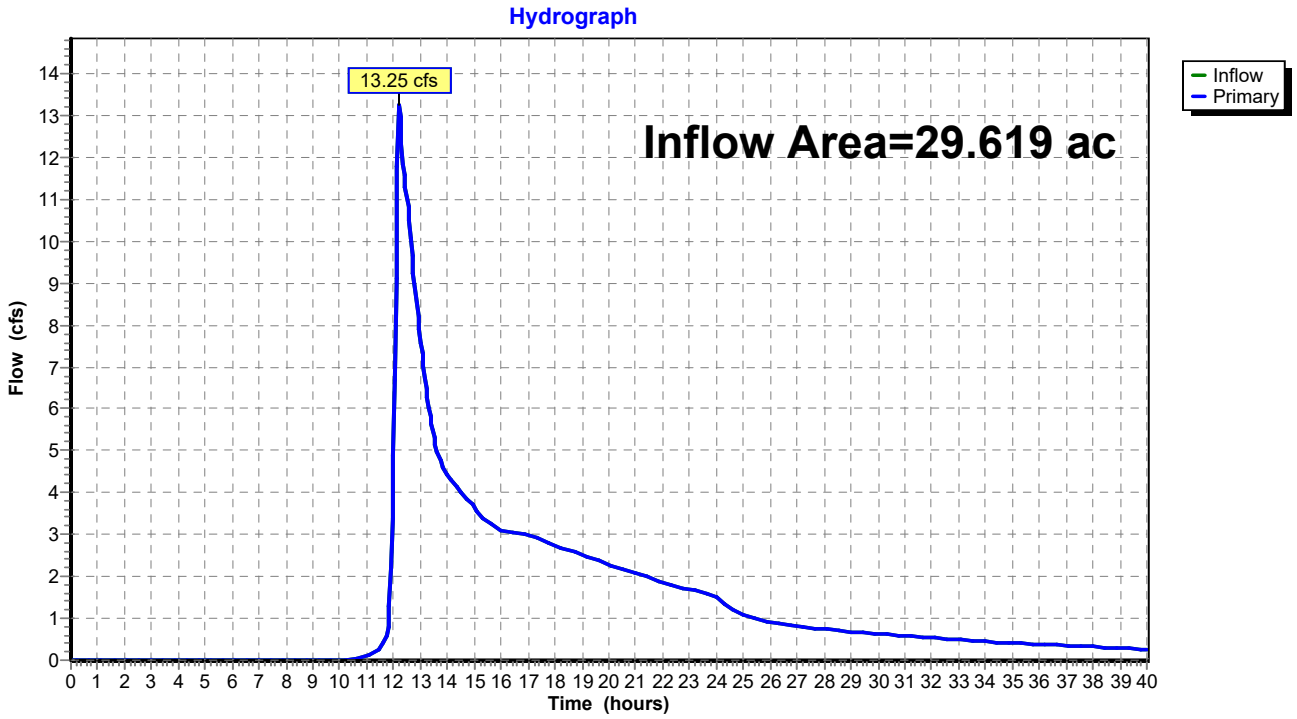
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.46	4,848	15,662
205.47	4,852	15,710
205.48	4,856	15,759
205.49	4,860	15,807
205.50	4,865	15,856
205.51	4,869	15,905
205.52	4,873	15,953
205.53	4,877	16,002
205.54	4,881	16,051
205.55	4,885	16,100
205.56	4,889	16,149
205.57	4,893	16,197
205.58	4,897	16,246
205.59	4,901	16,295
205.60	4,905	16,344
205.61	4,909	16,394
205.62	4,914	16,443
205.63	4,918	16,492
205.64	4,922	16,541
205.65	4,926	16,590
205.66	4,930	16,640
205.67	4,934	16,689
205.68	4,938	16,738
205.69	4,942	16,788
205.70	4,946	16,837
205.71	4,950	16,887
205.72	4,954	16,936
205.73	4,959	16,986
205.74	4,963	17,035
205.75	4,967	17,085
205.76	4,971	17,135
205.77	4,975	17,184
205.78	4,979	17,234
205.79	4,983	17,284
205.80	4,987	17,334
205.81	4,991	17,384
205.82	4,995	17,434
205.83	4,999	17,484
205.84	5,004	17,534
205.85	5,008	17,584
205.86	5,012	17,634
205.87	5,016	17,684
205.88	5,020	17,734
205.89	5,024	17,784
205.90	5,028	17,834
205.91	5,032	17,885
205.92	5,036	17,935
205.93	5,040	17,986
205.94	5,044	18,036
205.95	5,049	18,086
205.96	5,053	18,137
205.97	5,057	18,187
205.98	5,061	18,238
205.99	5,065	18,289
206.00	**5,069**	**18,339**

Summary for Link PDA-3: Proposed Drainage Area #3

Inflow Area = 29.619 ac, 38.13% Impervious, Inflow Depth > 1.73" for Future 2 yr event
Inflow = 13.25 cfs @ 12.22 hrs, Volume= 4.273 af
Primary = 13.25 cfs @ 12.22 hrs, Volume= 4.273 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-3: Proposed Drainage Area #3



Summary for Subcatchment 29I: PDA-29 (impervious)

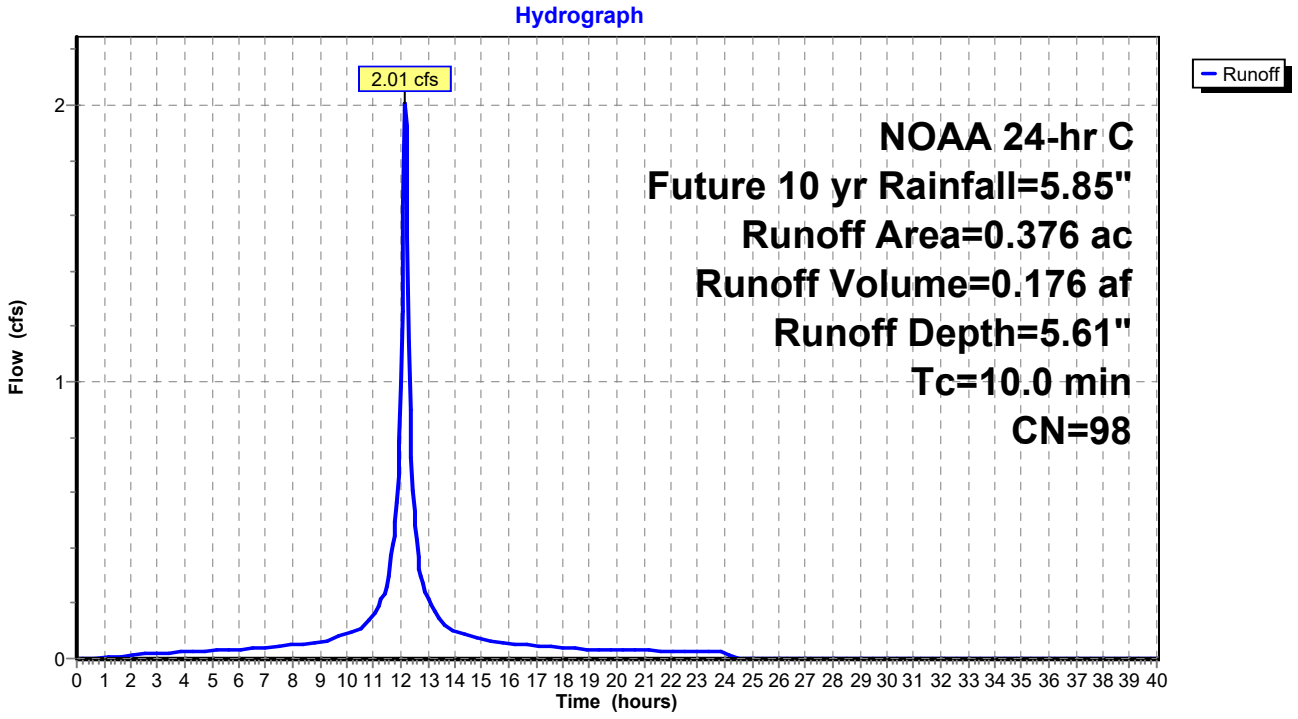
Runoff = 2.01 cfs @ 12.17 hrs, Volume= 0.176 af, Depth= 5.61"
Routed to Pond B-29 : Basin #29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.342	98	Pavement, HSG C
*	0.034	98	Concrete, HSC C
	0.376	98	Weighted Average
	0.376		100.00% Impervious Area

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

Subcatchment 29I: PDA-29 (impervious)



Summary for Subcatchment 29P: PDA-29 (pervious)

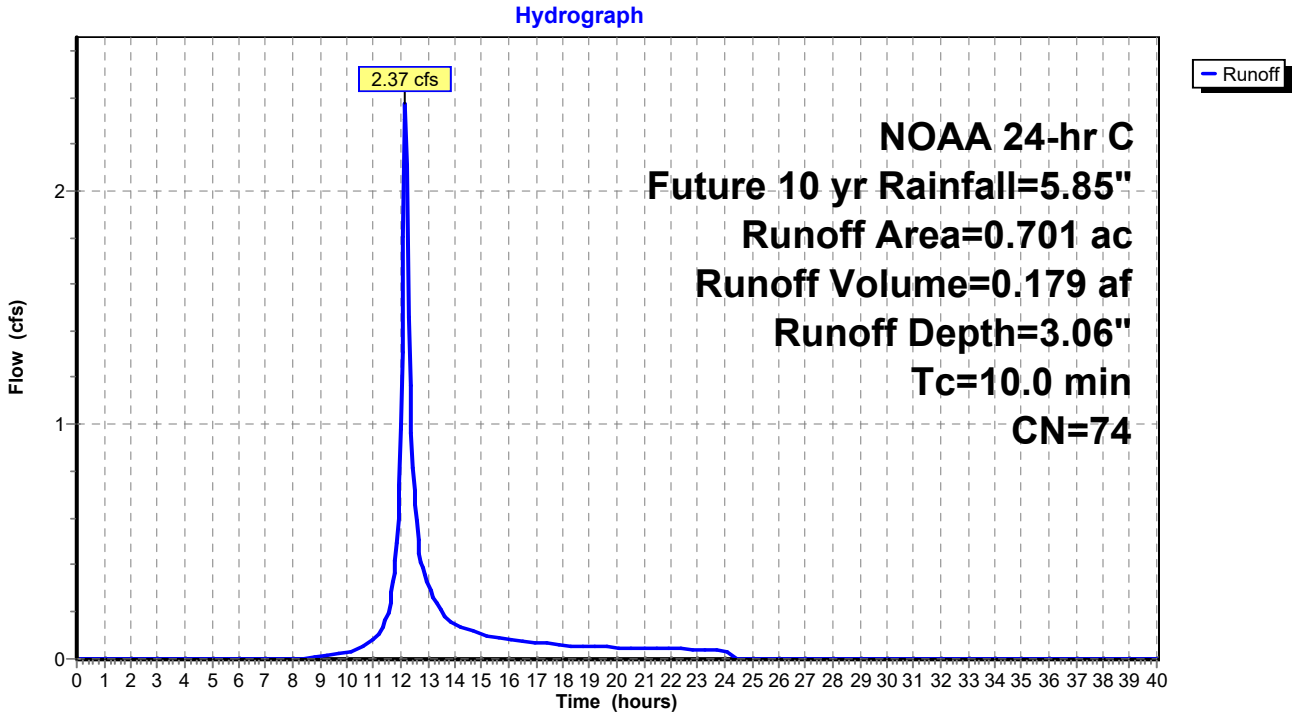
Runoff = 2.37 cfs @ 12.18 hrs, Volume= 0.179 af, Depth= 3.06"
Routed to Pond B-29 : Basin #29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.701	74	>75% Grass cover, Good, HSG C
0.701		100.00% Pervious Area

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

Subcatchment 29P: PDA-29 (pervious)



Summary for Subcatchment 30l: PDA-30 (impervious)

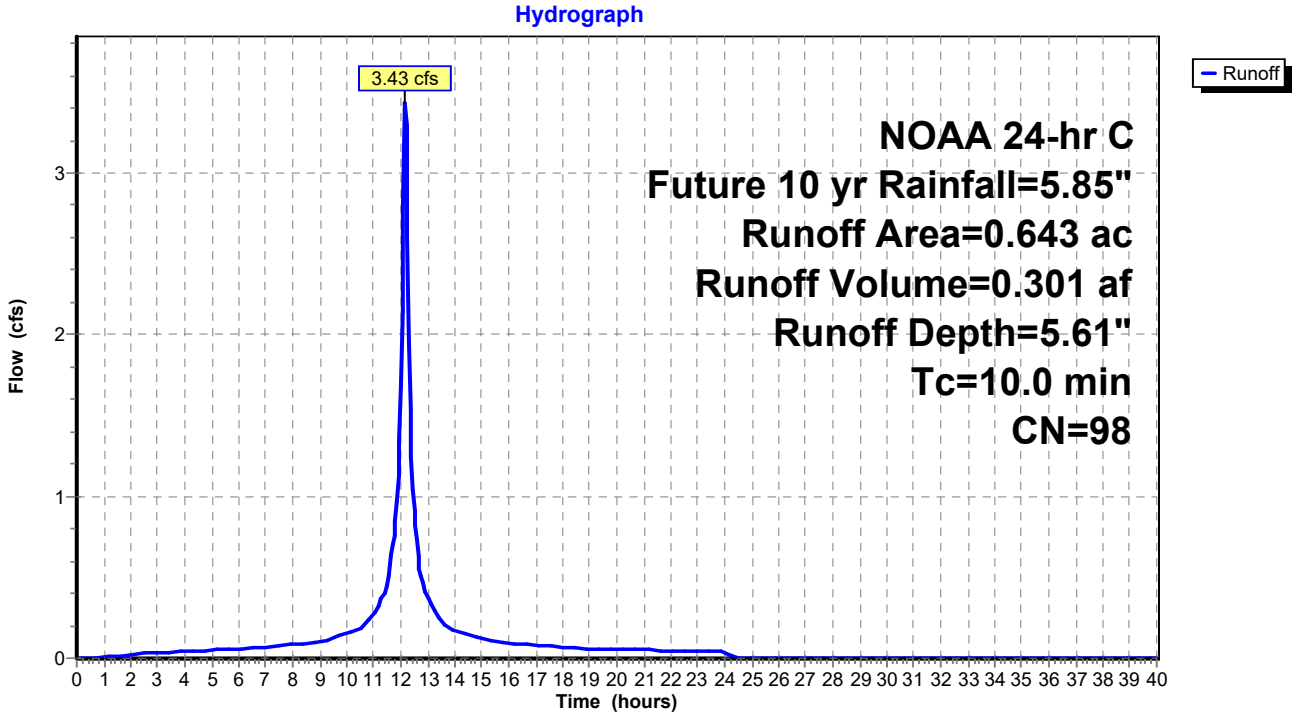
Runoff = 3.43 cfs @ 12.17 hrs, Volume= 0.301 af, Depth= 5.61"
Routed to Pond B-30 : Basin #30

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.000	98	Pavement, HSG C
*	0.643	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.643	98	Weighted Average
	0.643		100.00% Impervious Area

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

Subcatchment 30l: PDA-30 (impervious)



Summary for Subcatchment 30P: PDA-30 (pervious)

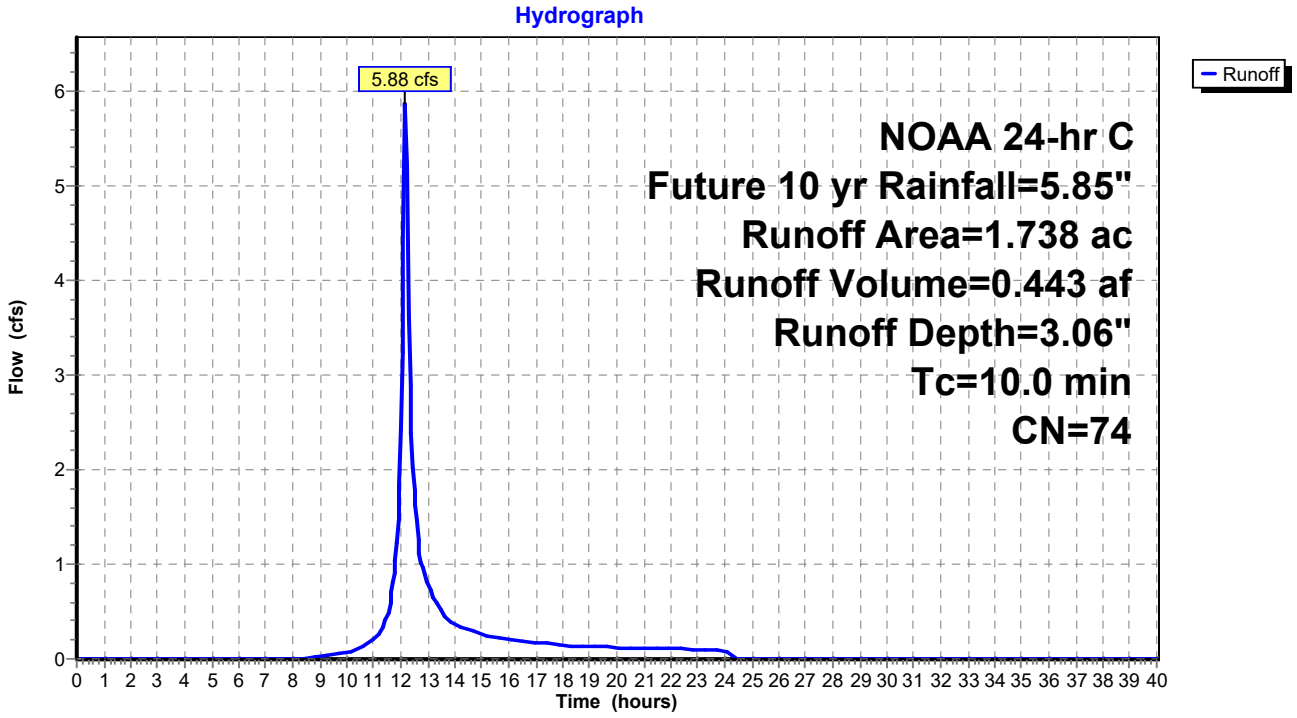
Runoff = 5.88 cfs @ 12.18 hrs, Volume= 0.443 af, Depth= 3.06"
Routed to Pond B-30 : Basin #30

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.738	74	>75% Grass cover, Good, HSG C
1.738		100.00% Pervious Area

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

Subcatchment 30P: PDA-30 (pervious)



Summary for Subcatchment 31I: PDA-31 (impervious)

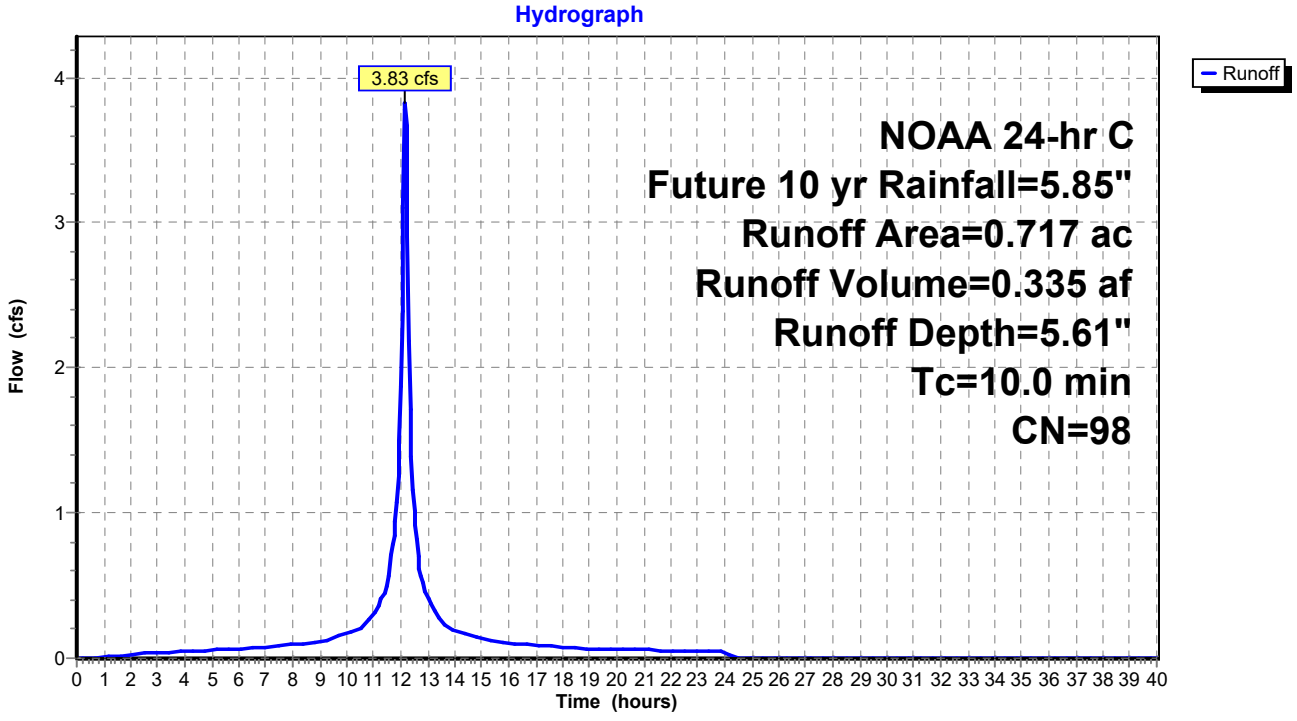
Runoff = 3.83 cfs @ 12.17 hrs, Volume= 0.335 af, Depth= 5.61"
Routed to Pond B-31 : Basin #31

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.557	98	Pavement, HSG C
*	0.064	98	Roof, HSG C
*	0.096	98	Concrete, HSC C
	0.717	98	Weighted Average
	0.717		100.00% Impervious Area

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

Subcatchment 31I: PDA-31 (impervious)



Summary for Subcatchment 31P: PDA-31 (pervious)

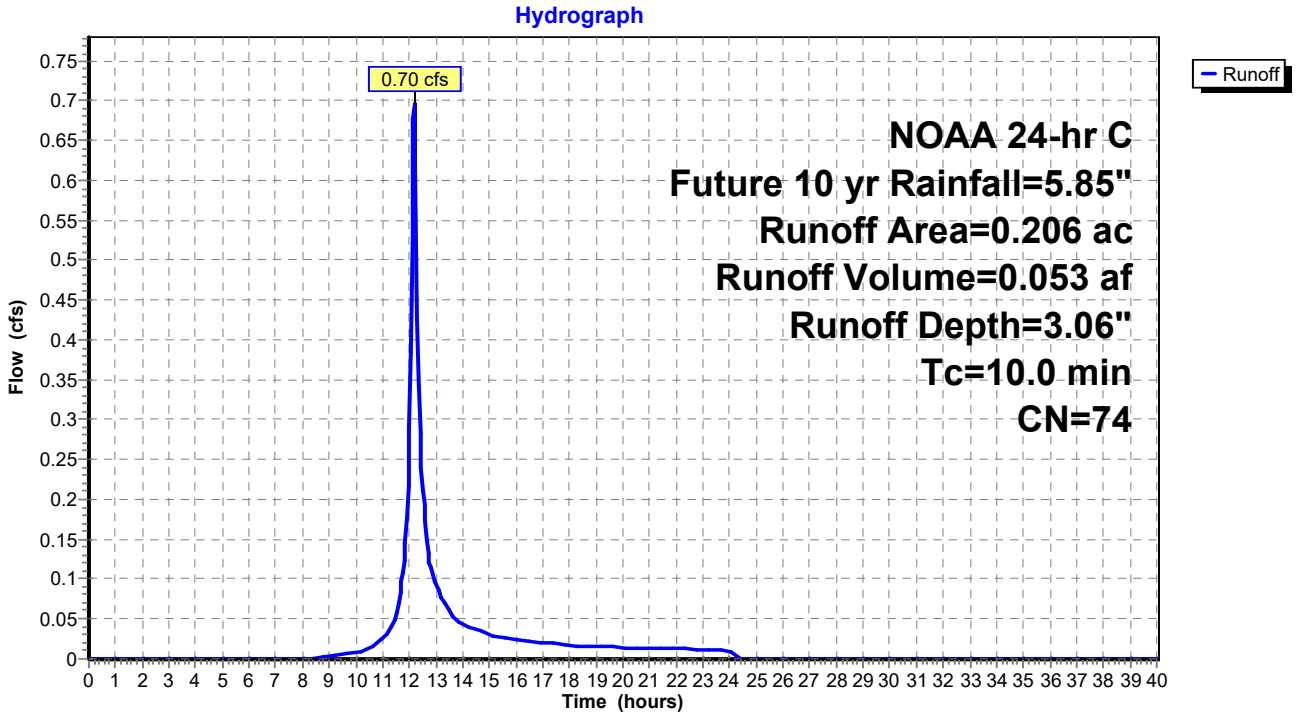
Runoff = 0.70 cfs @ 12.18 hrs, Volume= 0.053 af, Depth= 3.06"
Routed to Pond B-31 : Basin #31

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.206	74	>75% Grass cover, Good, HSG C
0.206		100.00% Pervious Area

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

Subcatchment 31P: PDA-31 (pervious)



Summary for Subcatchment 32l: PDA-32 (impervious)

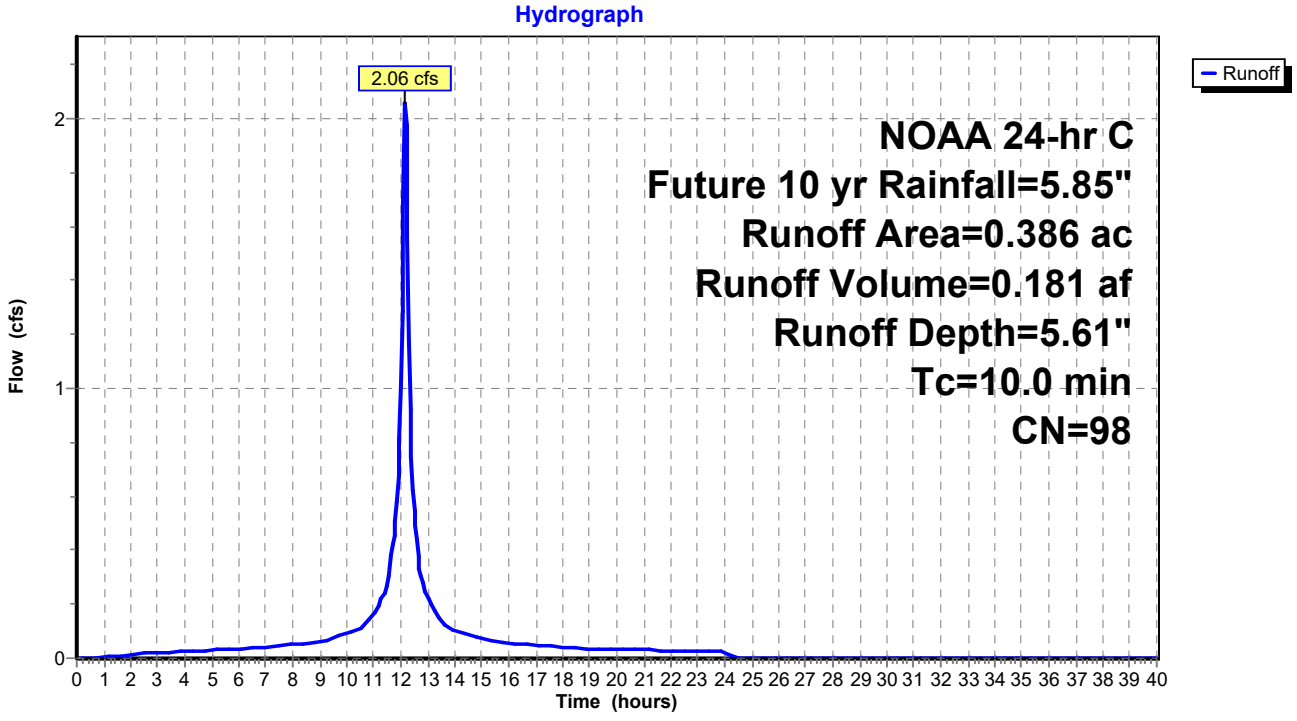
Runoff = 2.06 cfs @ 12.17 hrs, Volume= 0.181 af, Depth= 5.61"
Routed to Pond B-32 : Basin #32

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.000	98	Pavement, HSG C
*	0.386	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.386	98	Weighted Average
	0.386		100.00% Impervious Area

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

Subcatchment 32l: PDA-32 (impervious)



Summary for Subcatchment 32P: PDA-32 (pervious)

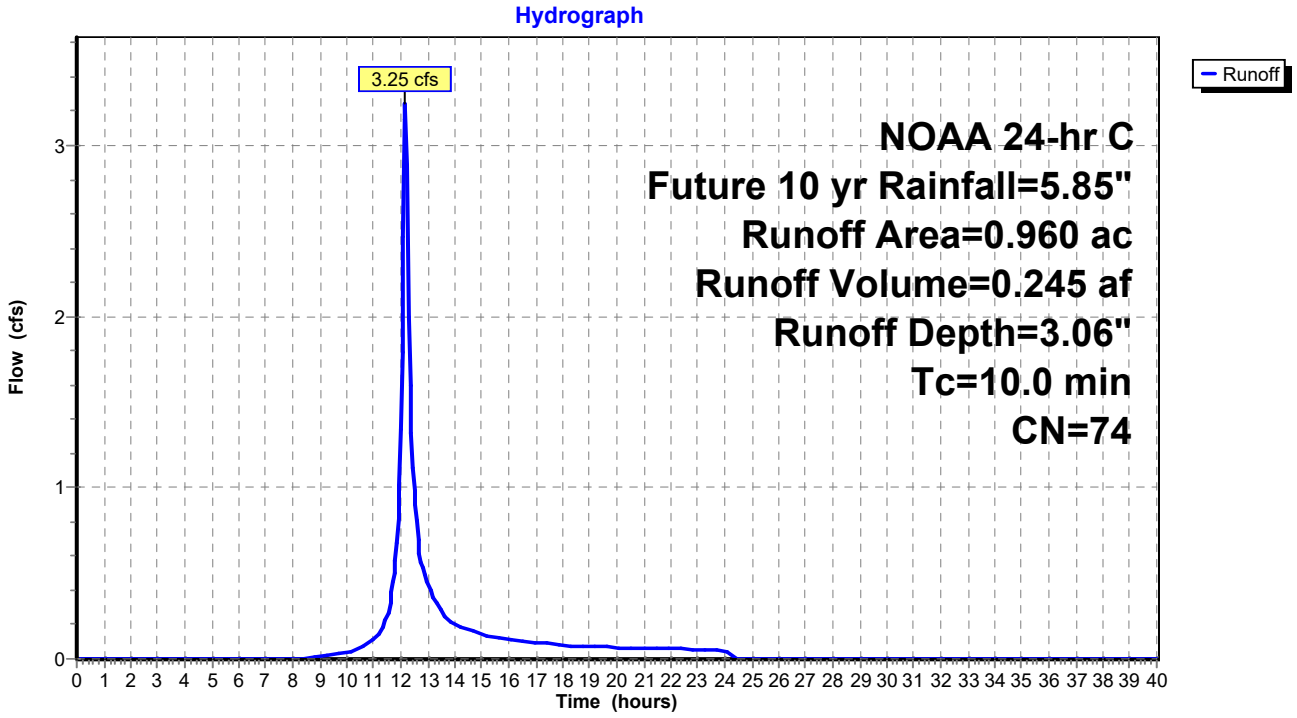
Runoff = 3.25 cfs @ 12.18 hrs, Volume= 0.245 af, Depth= 3.06"
Routed to Pond B-32 : Basin #32

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.960	74	>75% Grass cover, Good, HSG C
0.960		100.00% Pervious Area

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

Subcatchment 32P: PDA-32 (pervious)



Summary for Subcatchment 33l: PDA-33 (impervious)

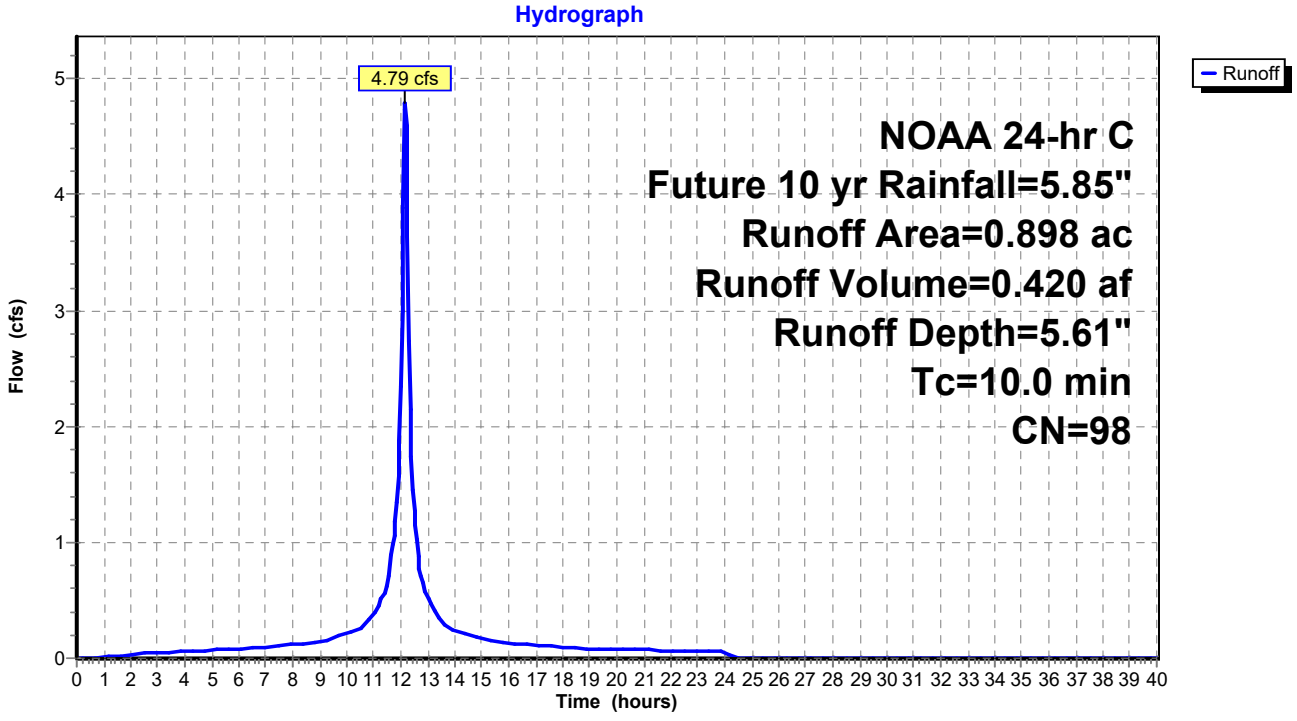
Runoff = 4.79 cfs @ 12.17 hrs, Volume= 0.420 af, Depth= 5.61"
Routed to Pond B-33 : Basin #33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.351	98	Pavement, HSG C
*	0.514	98	Roof, HSG C
*	0.033	98	Concrete, HSC C
	0.898	98	Weighted Average
	0.898		100.00% Impervious Area

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

Subcatchment 33l: PDA-33 (impervious)



Summary for Subcatchment 33P: PDA-33 (pervious)

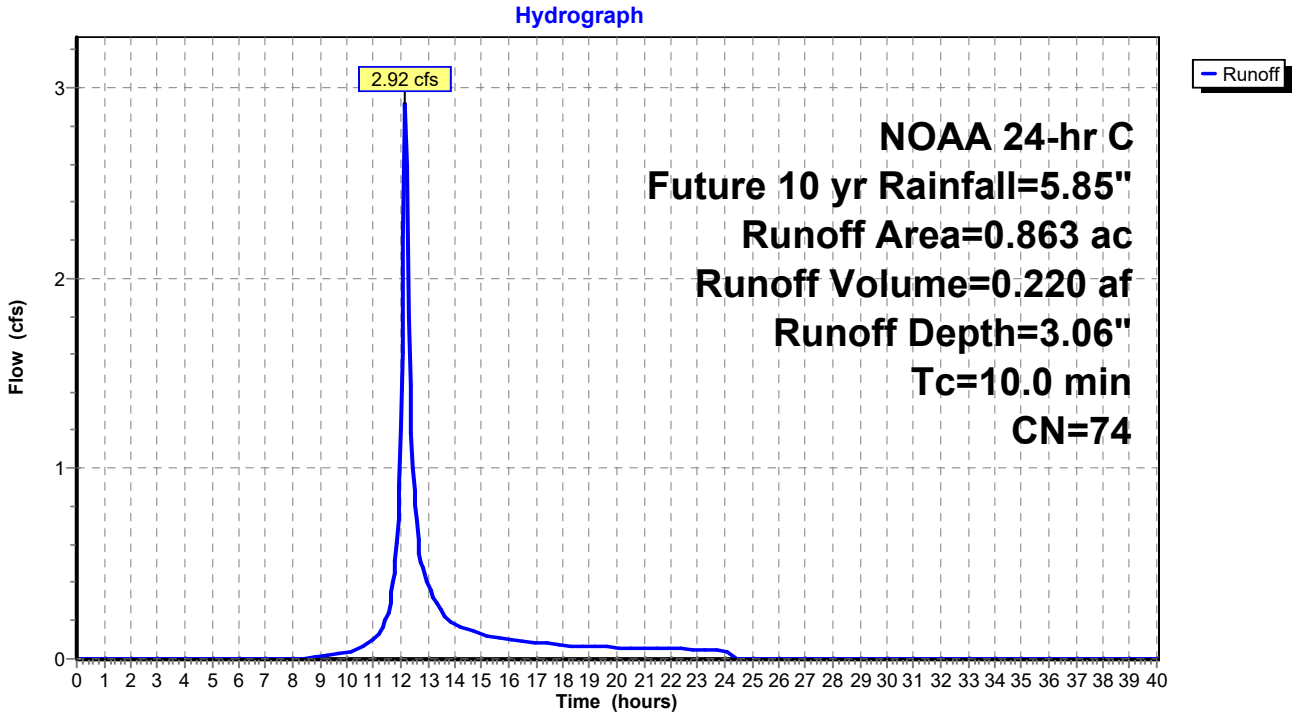
Runoff = 2.92 cfs @ 12.18 hrs, Volume= 0.220 af, Depth= 3.06"
Routed to Pond B-33 : Basin #33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.863	74	>75% Grass cover, Good, HSG C
0.863		100.00% Pervious Area

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

Subcatchment 33P: PDA-33 (pervious)



Summary for Subcatchment 34l: PDA-34 (impervious)

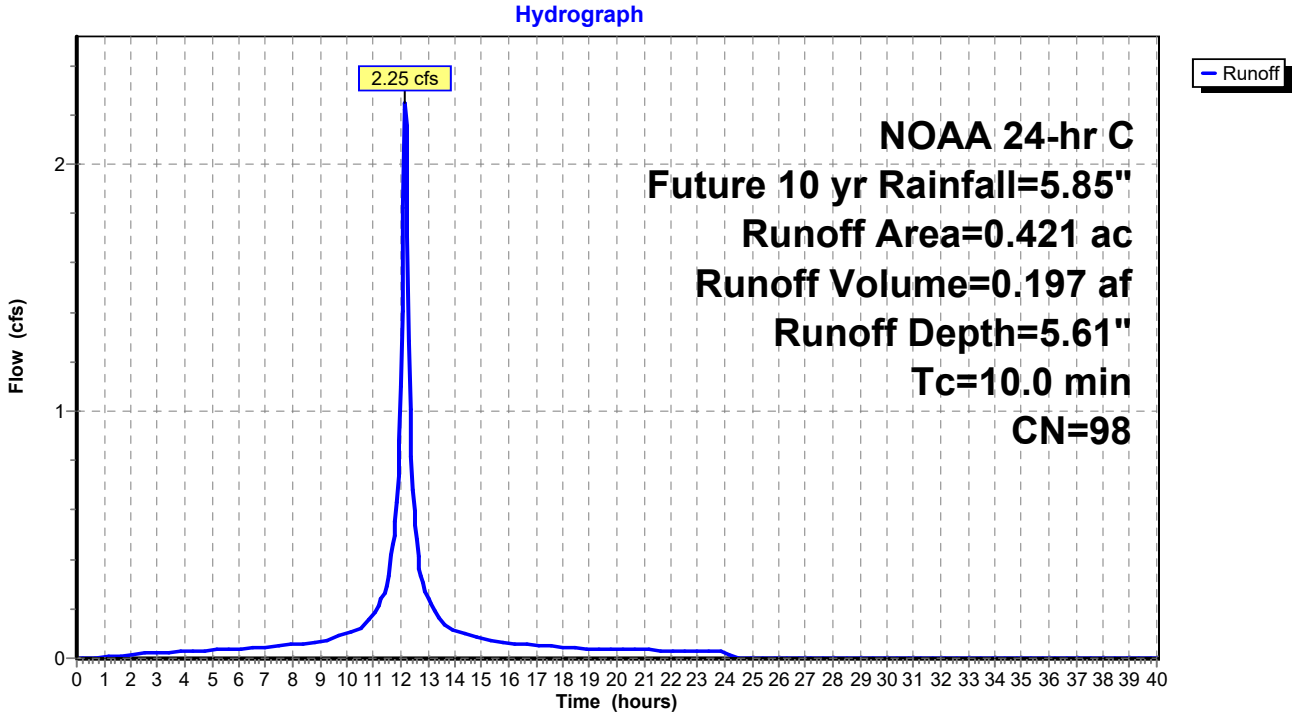
Runoff = 2.25 cfs @ 12.17 hrs, Volume= 0.197 af, Depth= 5.61"
Routed to Pond B-34 : Basin #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.000	98	Pavement, HSG C
*	0.279	98	Roof, HSG C
*	0.142	98	Concrete, HSC C
	0.421	98	Weighted Average
	0.421		100.00% Impervious Area

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

Subcatchment 34l: PDA-34 (impervious)



Summary for Subcatchment 34P: PDA-34 (pervious)

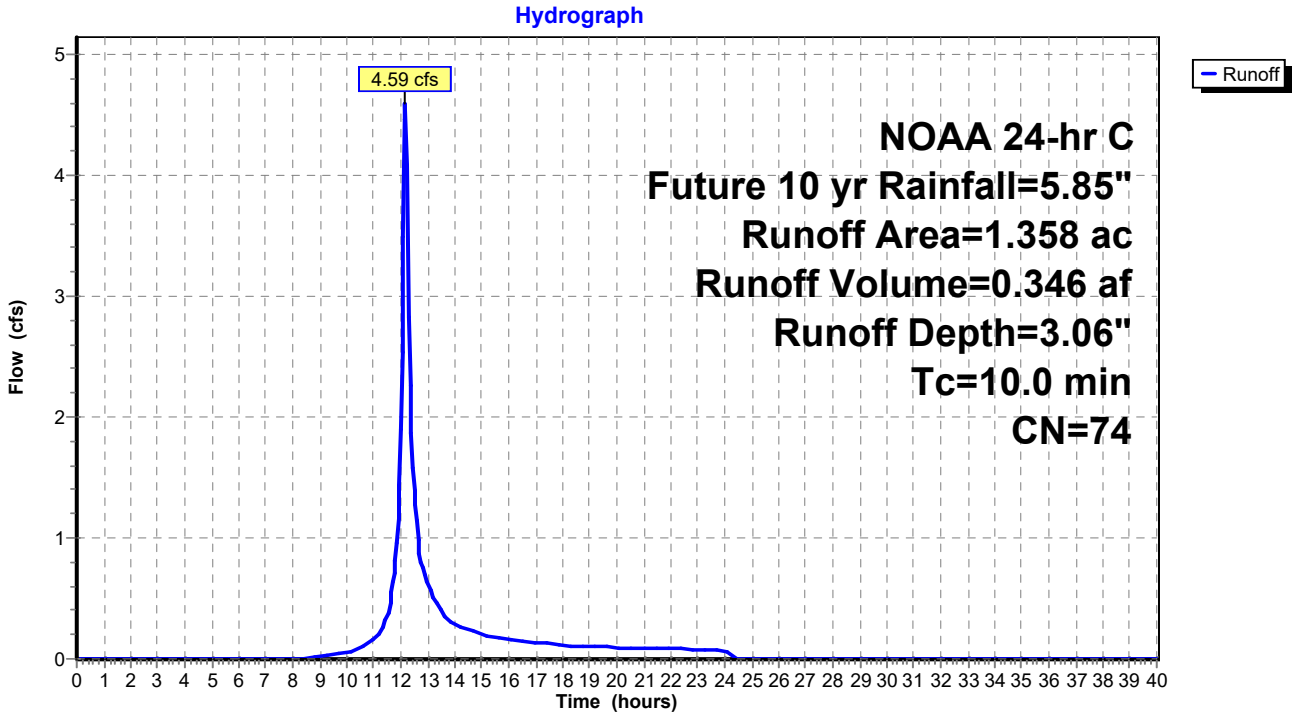
Runoff = 4.59 cfs @ 12.18 hrs, Volume= 0.346 af, Depth= 3.06"
Routed to Pond B-34 : Basin #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.358	74	>75% Grass cover, Good, HSG C
1.358		100.00% Pervious Area

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

Subcatchment 34P: PDA-34 (pervious)



Summary for Subcatchment 35l: PDA-35 (impervious)

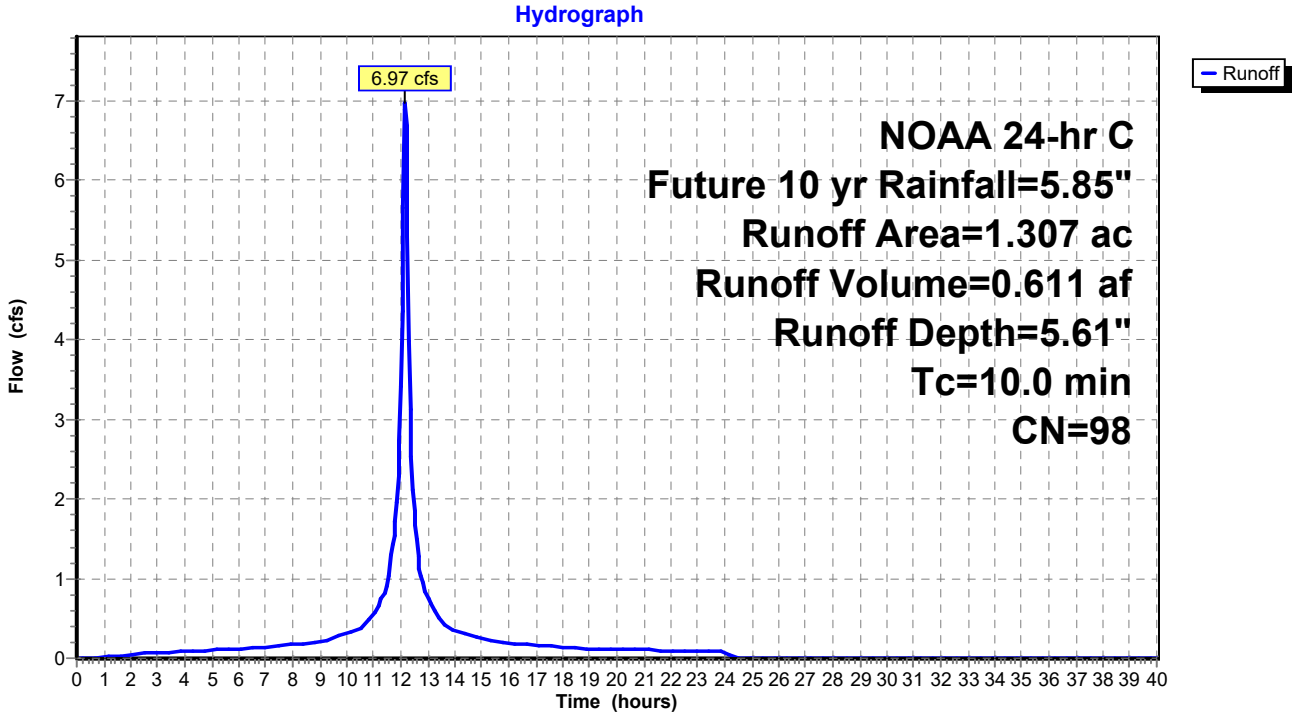
Runoff = 6.97 cfs @ 12.17 hrs, Volume= 0.611 af, Depth= 5.61"
Routed to Pond B-35 : Basin #35

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	1.003	98	Pavement, HSG C
*	0.139	98	Roof, HSG C
*	0.165	98	Concrete, HSC C
	1.307	98	Weighted Average
	1.307		100.00% Impervious Area

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

Subcatchment 35l: PDA-35 (impervious)



Summary for Subcatchment 35P: PDA-35 (pervious)

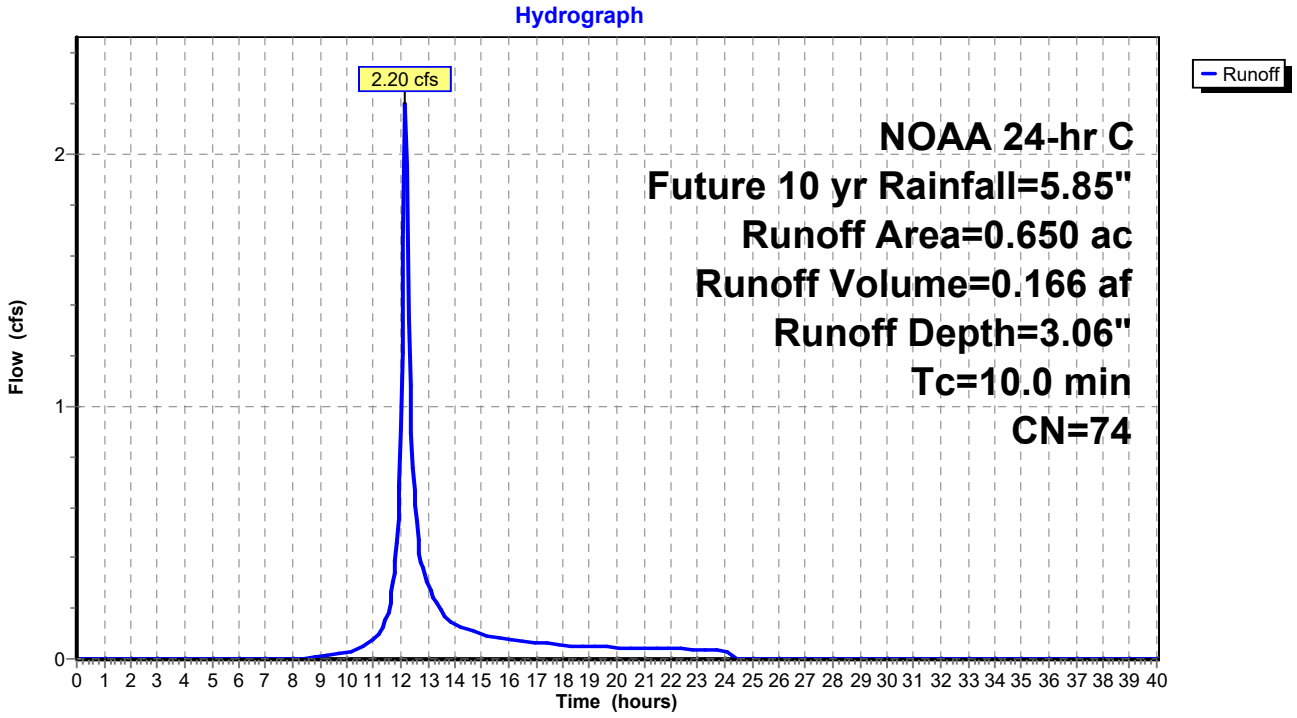
Runoff = 2.20 cfs @ 12.18 hrs, Volume= 0.166 af, Depth= 3.06"
Routed to Pond B-35 : Basin #35

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.650	74	>75% Grass cover, Good, HSG C
0.650		100.00% Pervious Area

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

Subcatchment 35P: PDA-35 (pervious)



Summary for Subcatchment 36AI: PDA-36A (impervious)

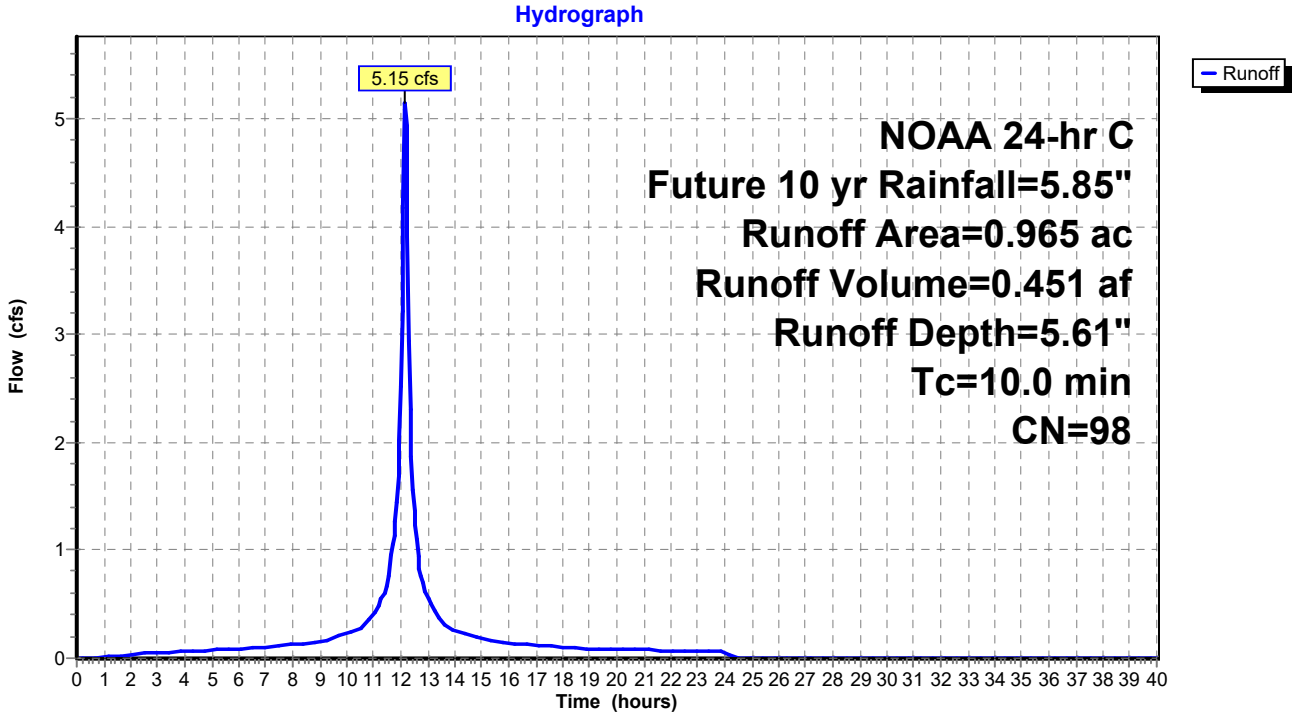
Runoff = 5.15 cfs @ 12.17 hrs, Volume= 0.451 af, Depth= 5.61"
Routed to Pond B-36A : Basin #36A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.415	98	Pavement, HSG C
*	0.418	98	Roof, HSG C
*	0.132	98	Concrete, HSC C
	0.965	98	Weighted Average
	0.965		100.00% Impervious Area

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

Subcatchment 36AI: PDA-36A (impervious)



Summary for Subcatchment 36AP: PDA-36A (pervious)

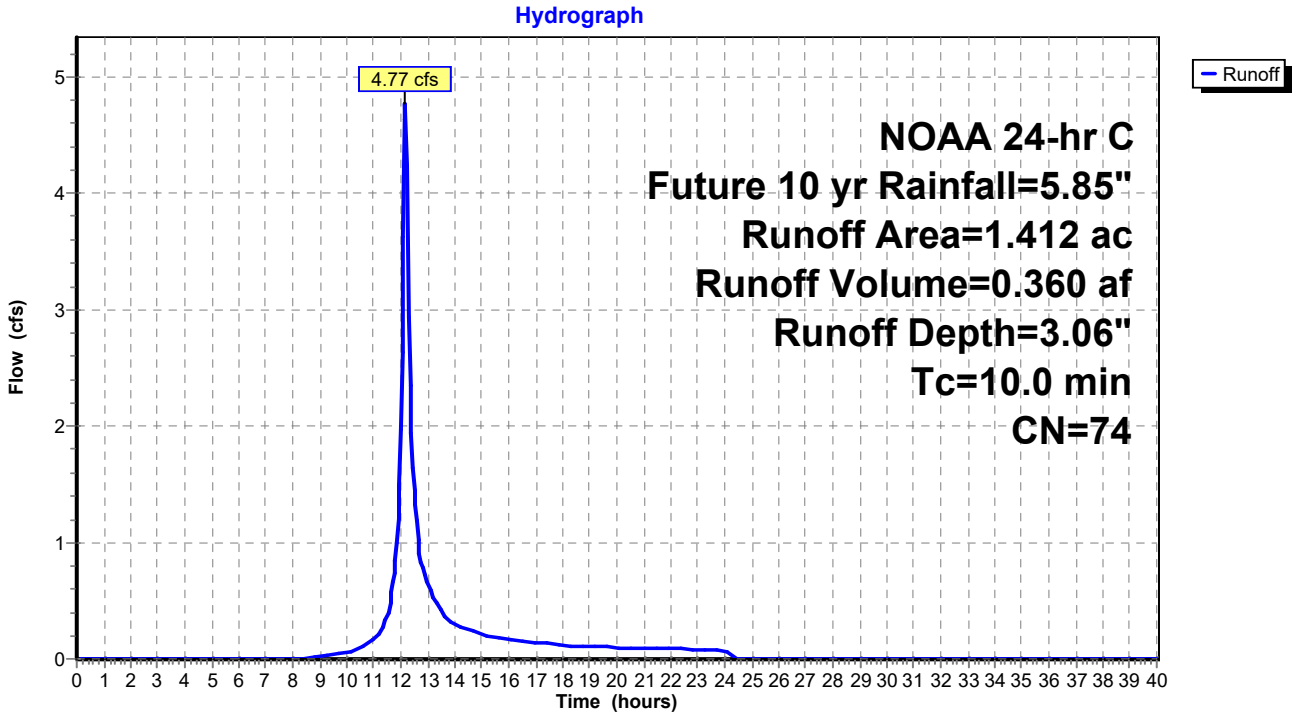
Runoff = 4.77 cfs @ 12.18 hrs, Volume= 0.360 af, Depth= 3.06"
Routed to Pond B-36A : Basin #36A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.412	74	>75% Grass cover, Good, HSG C
1.412		100.00% Pervious Area

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

Subcatchment 36AP: PDA-36A (pervious)



Summary for Subcatchment 36BI: PDA-36B (impervious)

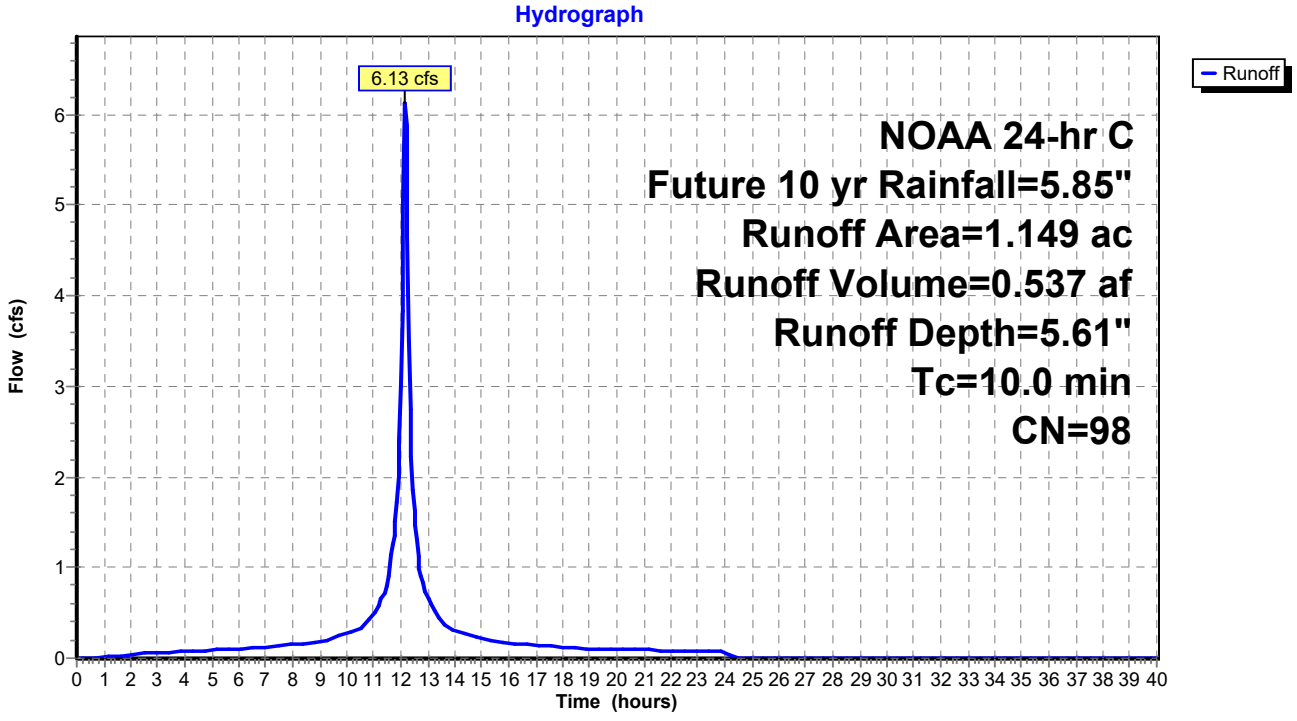
Runoff = 6.13 cfs @ 12.17 hrs, Volume= 0.537 af, Depth= 5.61"
Routed to Pond B-36B : Basin #36B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.501	98	Pavement, HSG C
*	0.579	98	Roof, HSG C
*	0.069	98	Concrete, HSC C
	1.149	98	Weighted Average
	1.149		100.00% Impervious Area

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

Subcatchment 36BI: PDA-36B (impervious)



Summary for Subcatchment 36BP: PDA-36B (pervious)

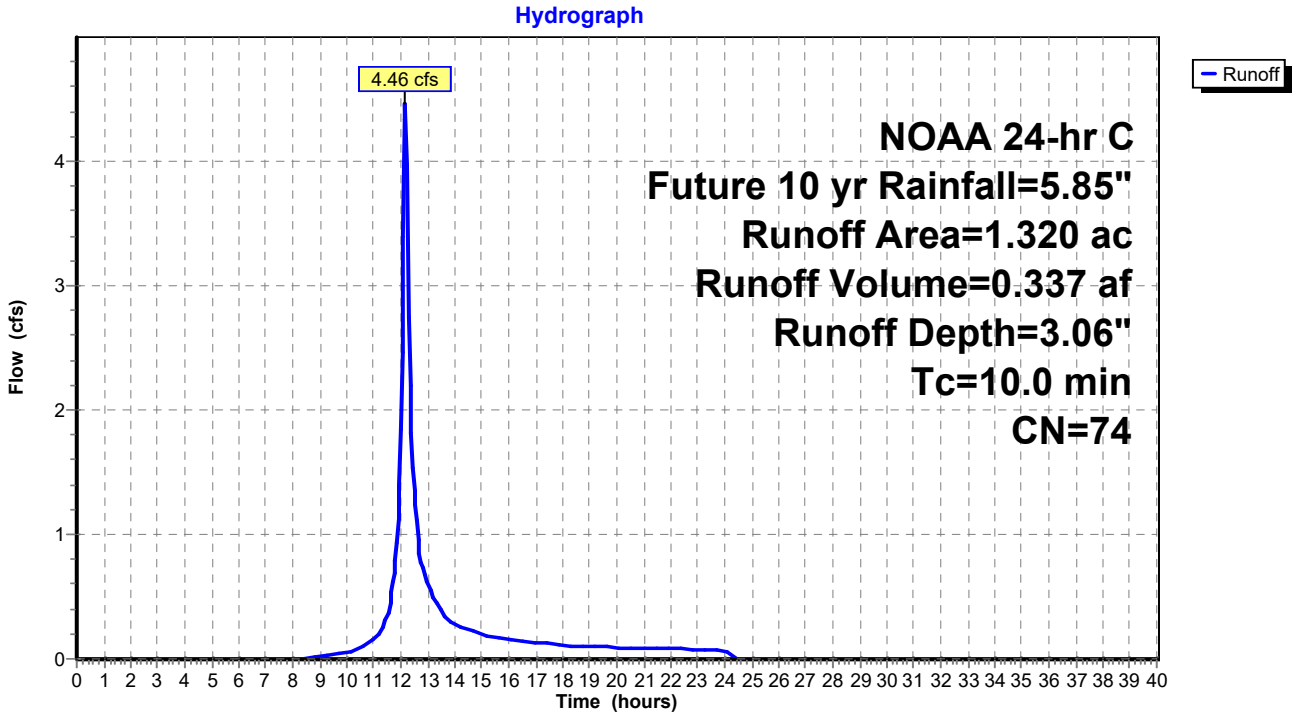
Runoff = 4.46 cfs @ 12.18 hrs, Volume= 0.337 af, Depth= 3.06"
Routed to Pond B-36B : Basin #36B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.320	74	>75% Grass cover, Good, HSG C
1.320		100.00% Pervious Area

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

Subcatchment 36BP: PDA-36B (pervious)



Summary for Subcatchment 37AI: PDA-37B (impervious)

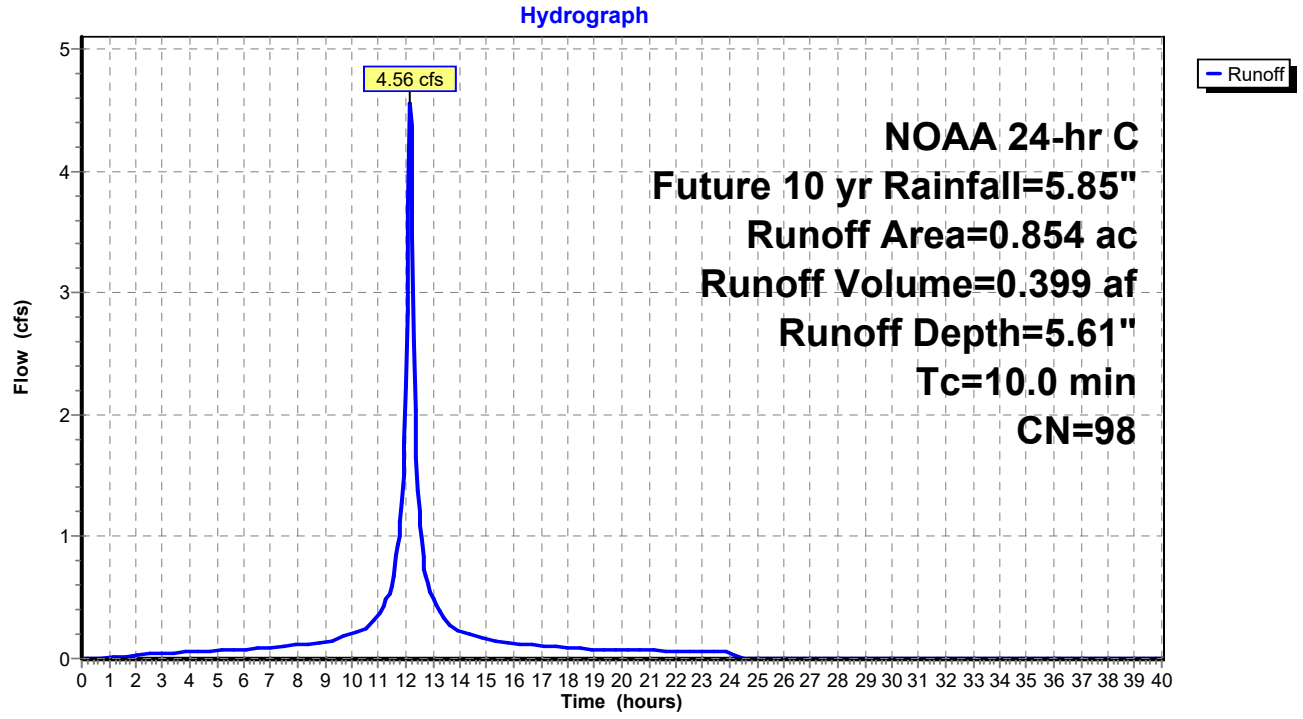
Runoff = 4.56 cfs @ 12.17 hrs, Volume= 0.399 af, Depth= 5.61"
Routed to Pond B-37A : Basin #37A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.673	98	Pavement, HSG C
*	0.181	98	Concrete, HSC C
	0.854	98	Weighted Average
	0.854		100.00% Impervious Area

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

Subcatchment 37AI: PDA-37B (impervious)



Summary for Subcatchment 37AP: PDA-37A (pervious)

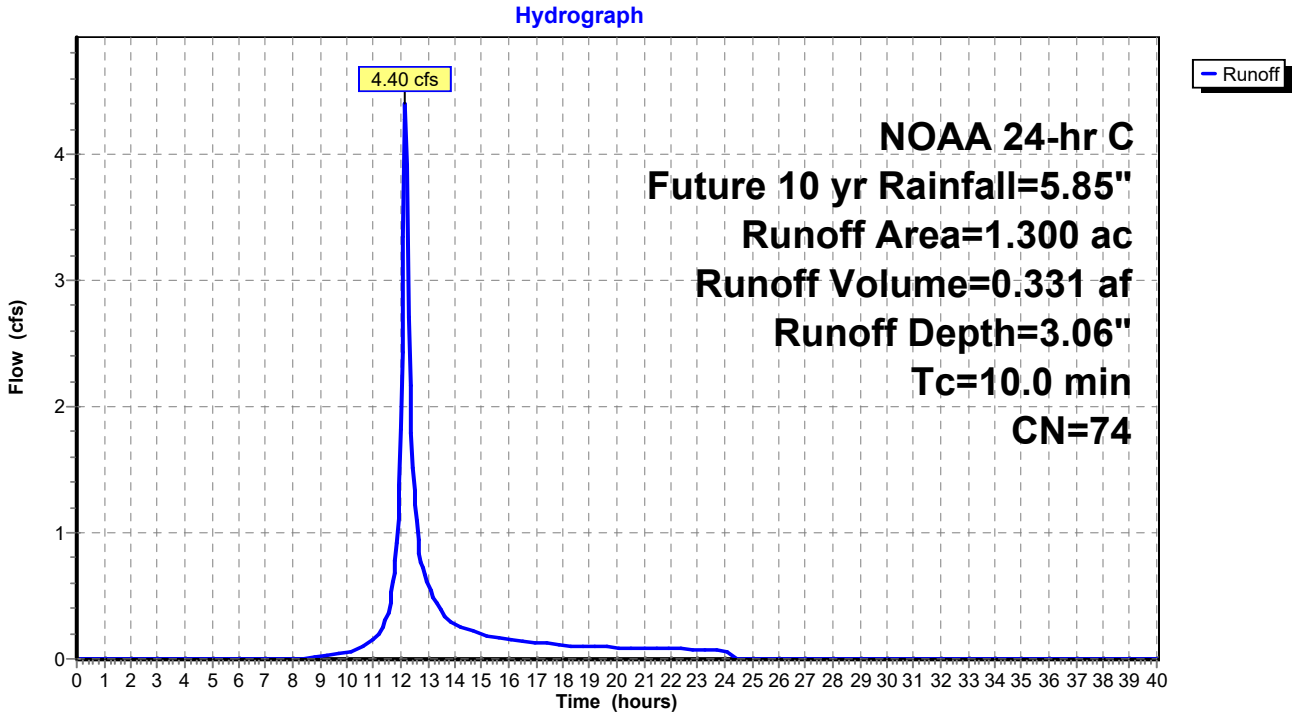
Runoff = 4.40 cfs @ 12.18 hrs, Volume= 0.331 af, Depth= 3.06"
Routed to Pond B-37A : Basin #37A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.300	74	>75% Grass cover, Good, HSG C
1.300		100.00% Pervious Area

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

Subcatchment 37AP: PDA-37A (pervious)



Summary for Subcatchment 37BI: PDA-37B (impervious)

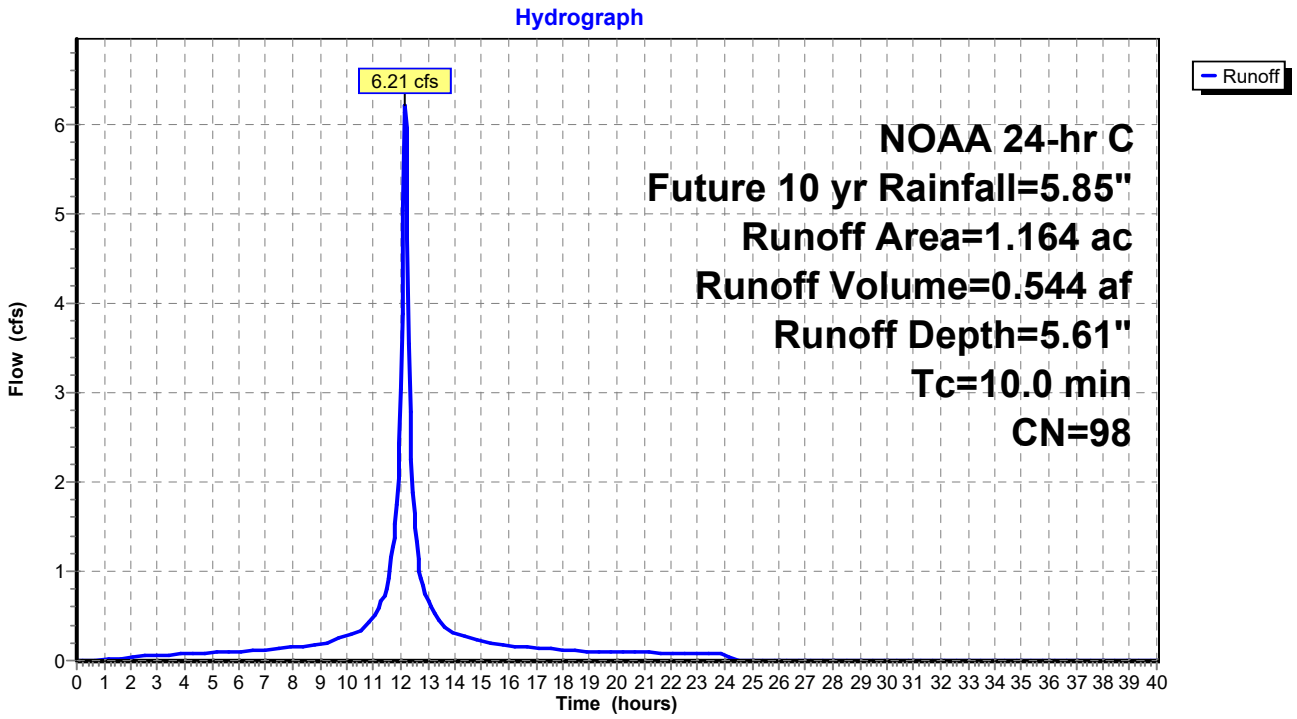
Runoff = 6.21 cfs @ 12.17 hrs, Volume= 0.544 af, Depth= 5.61"
Routed to Pond B-37B : Basin #37B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.806	98	Pavement, HSG C
*	0.079	98	Concrete, HSC C
	0.279	98	Unconnected roofs, HSG C
	1.164	98	Weighted Average
	1.164		100.00% Impervious Area
	0.279		23.97% Unconnected

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

Subcatchment 37BI: PDA-37B (impervious)



Summary for Subcatchment 38BP: PDA-37B (pervious)

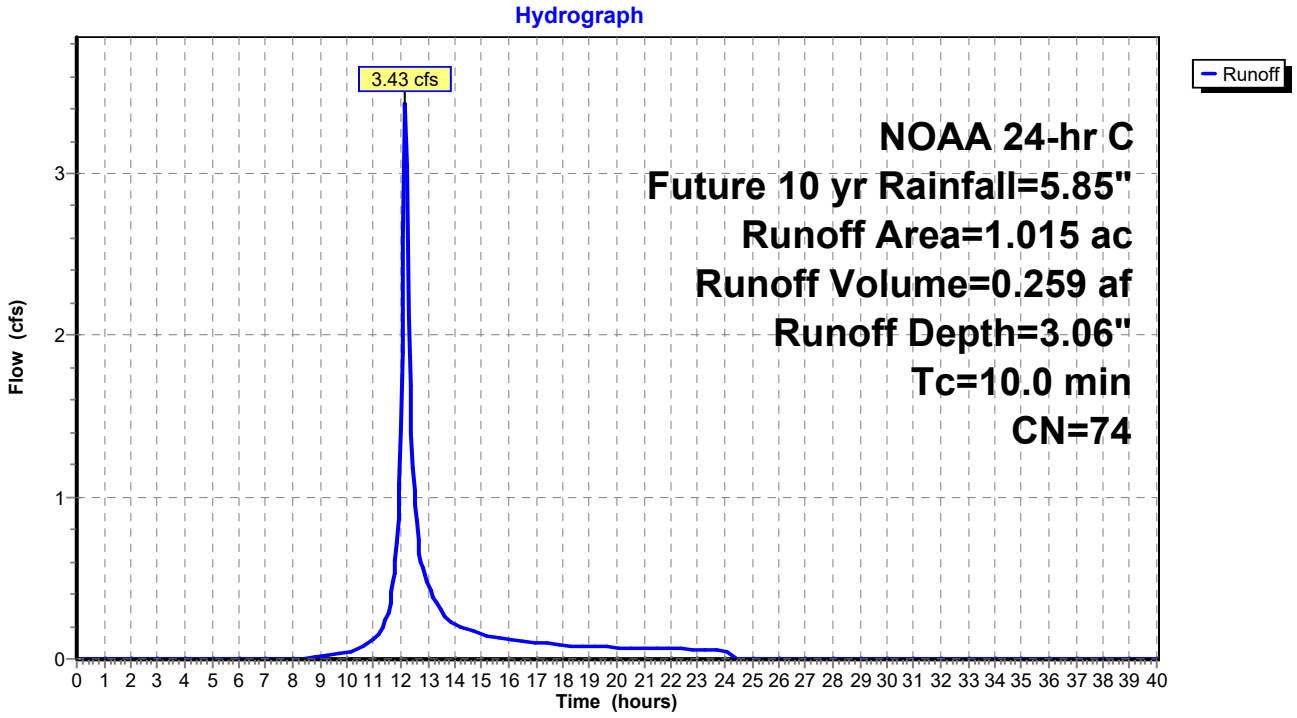
Runoff = 3.43 cfs @ 12.18 hrs, Volume= 0.259 af, Depth= 3.06"
Routed to Pond B-37B : Basin #37B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.015	74	>75% Grass cover, Good, HSG C
1.015		100.00% Pervious Area

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

Subcatchment 38BP: PDA-37B (pervious)



Summary for Subcatchment 38I: PDA-38 (impervious)

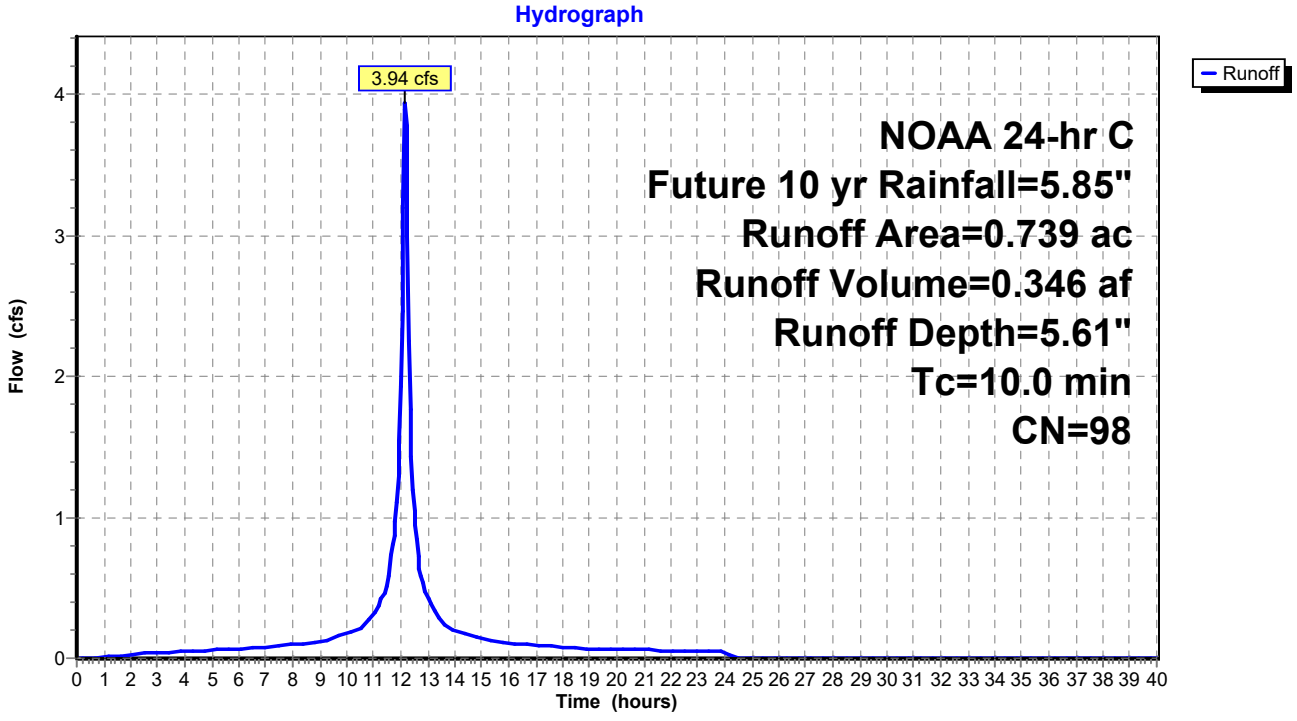
Runoff = 3.94 cfs @ 12.17 hrs, Volume= 0.346 af, Depth= 5.61"
Routed to Pond B-38 : Basin #38

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.568	98	Roof, HSG C
*	0.171	98	Concrete, HSC C
	0.000	98	Paved roads w/curbs & sewers, HSG C
	0.739	98	Weighted Average
	0.739		100.00% Impervious Area

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

Subcatchment 38I: PDA-38 (impervious)



Summary for Subcatchment 38P: PDA-38 (pervious)

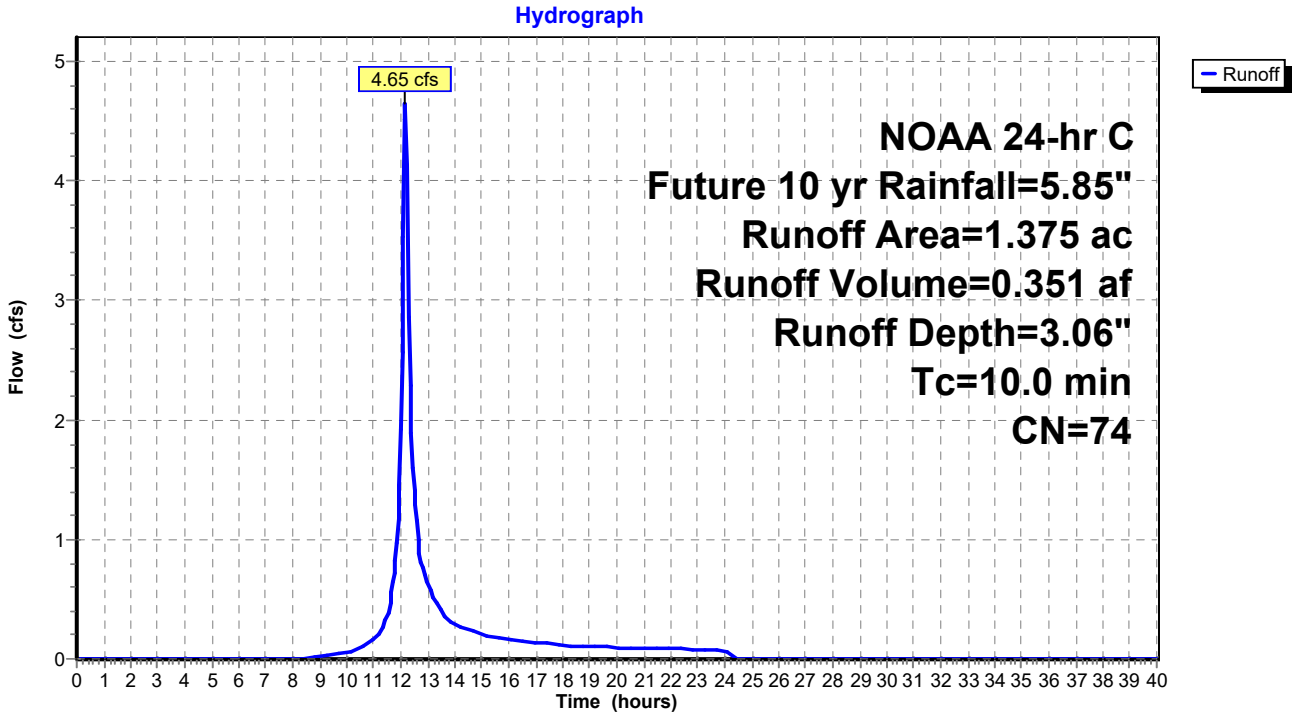
Runoff = 4.65 cfs @ 12.18 hrs, Volume= 0.351 af, Depth= 3.06"
Routed to Pond B-38 : Basin #38

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.375	74	>75% Grass cover, Good, HSG C
1.375		100.00% Pervious Area

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

Subcatchment 38P: PDA-38 (pervious)



Summary for Subcatchment 39l: PDA-39 (impervious)

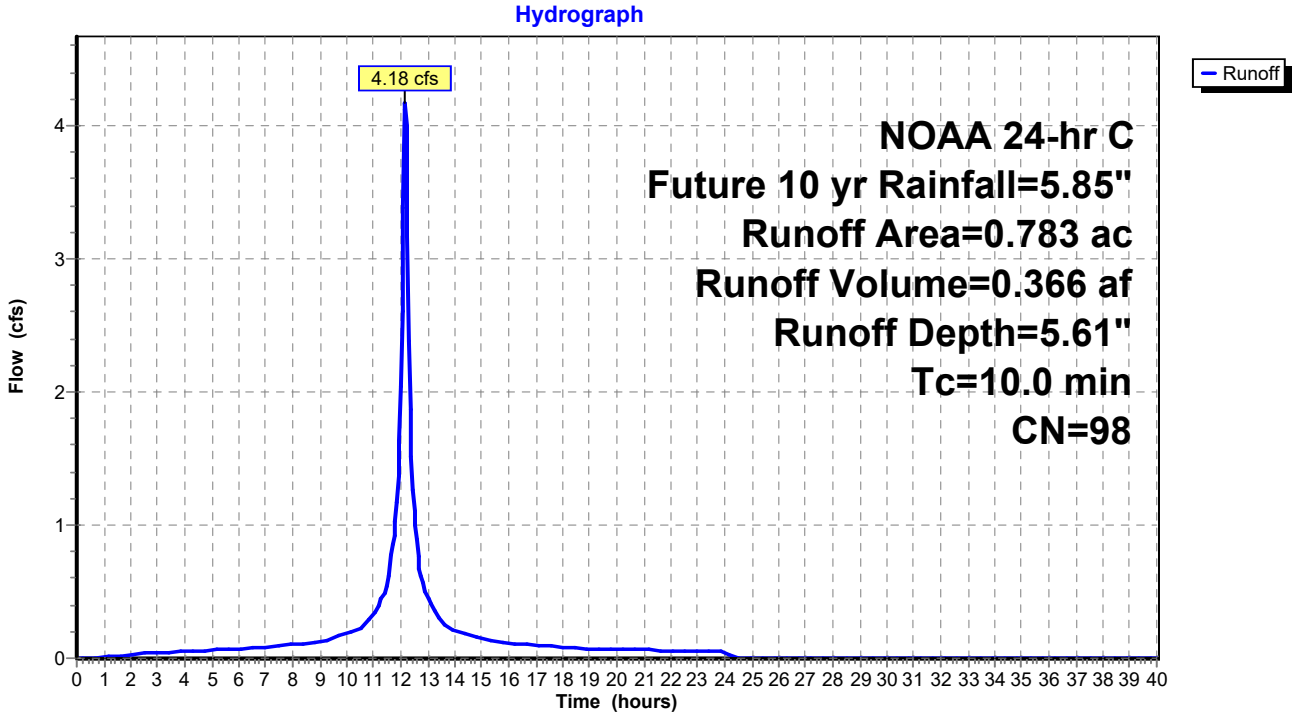
Runoff = 4.18 cfs @ 12.17 hrs, Volume= 0.366 af, Depth= 5.61"
Routed to Pond B-39 : Basin #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.568	98	Roof, HSG C
*	0.164	98	Concrete, HSC C
	0.051	98	Paved roads w/curbs & sewers, HSG C
	0.783	98	Weighted Average
	0.783		100.00% Impervious Area

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

Subcatchment 39l: PDA-39 (impervious)



Summary for Subcatchment 39P: PDA-39 (pervious)

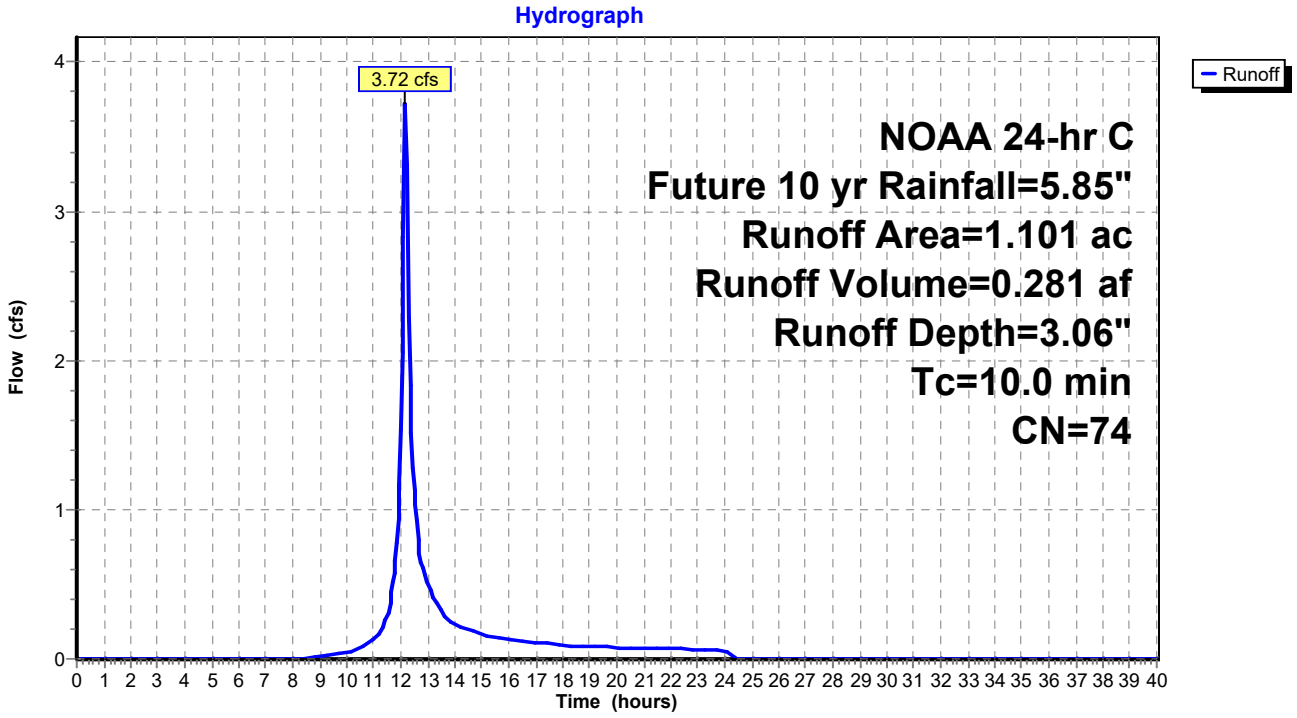
Runoff = 3.72 cfs @ 12.18 hrs, Volume= 0.281 af, Depth= 3.06"
Routed to Pond B-39 : Basin #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.101	74	>75% Grass cover, Good, HSG C
1.101		100.00% Pervious Area

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

Subcatchment 39P: PDA-39 (pervious)



Summary for Subcatchment 40l: PDA-40 (impervious)

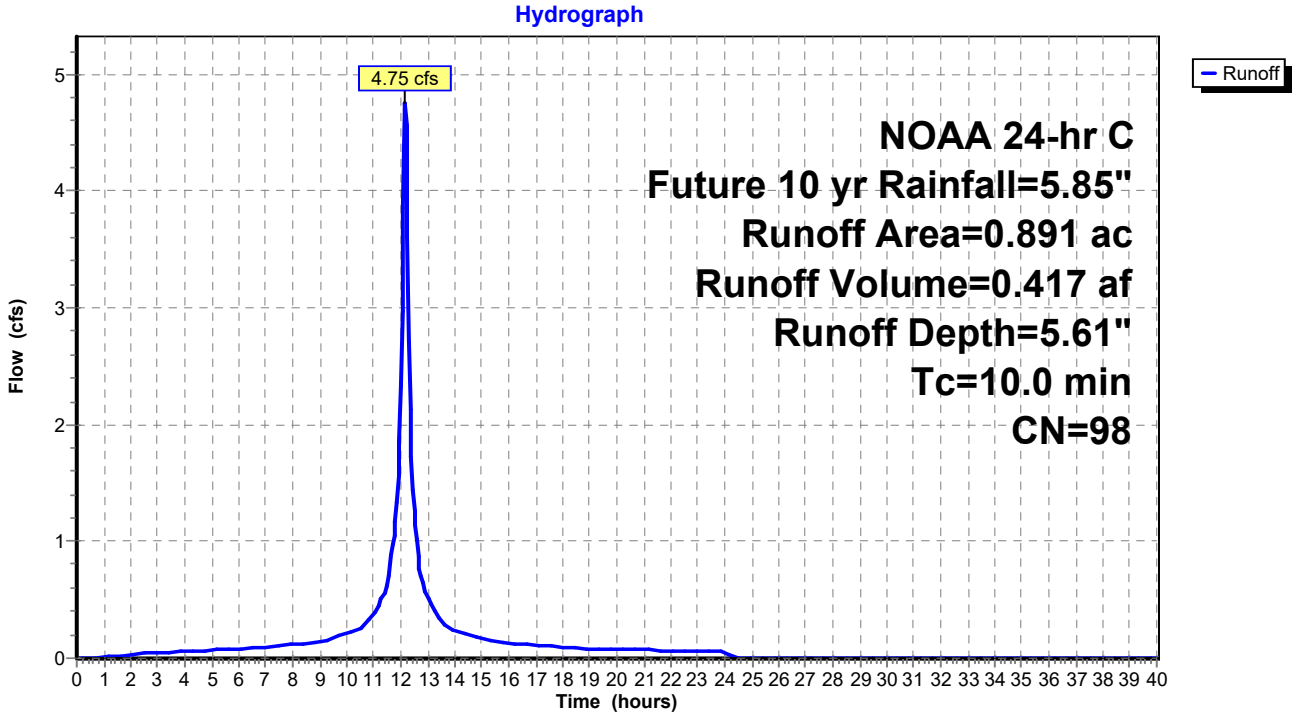
Runoff = 4.75 cfs @ 12.17 hrs, Volume= 0.417 af, Depth= 5.61"
Routed to Pond B-40 : Basin #40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.568	98	Roof, HSG C
*	0.179	98	Concrete, HSC C
	0.144	98	Paved roads w/curbs & sewers, HSG C
	0.891	98	Weighted Average
	0.891		100.00% Impervious Area

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

Subcatchment 40l: PDA-40 (impervious)



Summary for Subcatchment 40P: PDA-40 (pervious)

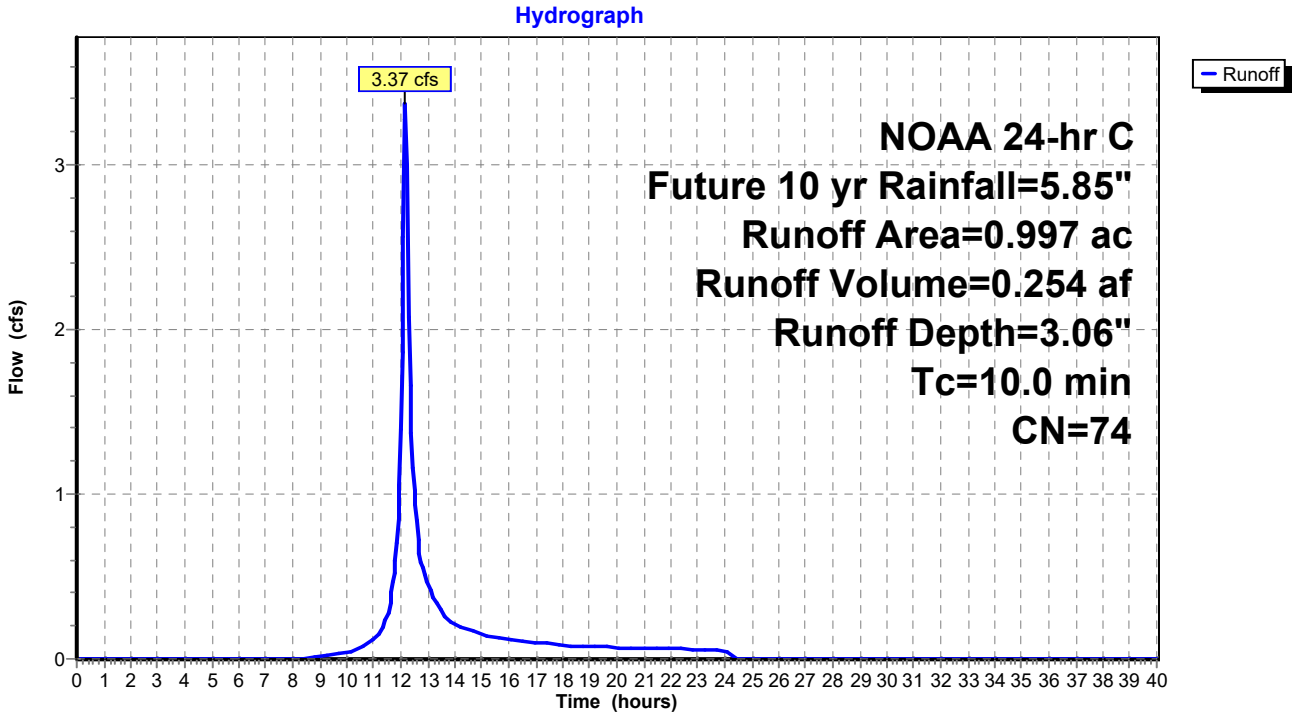
Runoff = 3.37 cfs @ 12.18 hrs, Volume= 0.254 af, Depth= 3.06"
Routed to Pond B-40 : Basin #40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.997	74	>75% Grass cover, Good, HSG C
0.997		100.00% Pervious Area

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

Subcatchment 40P: PDA-40 (pervious)



Summary for Subcatchment UPDA-3: PDA-3 (undetained)

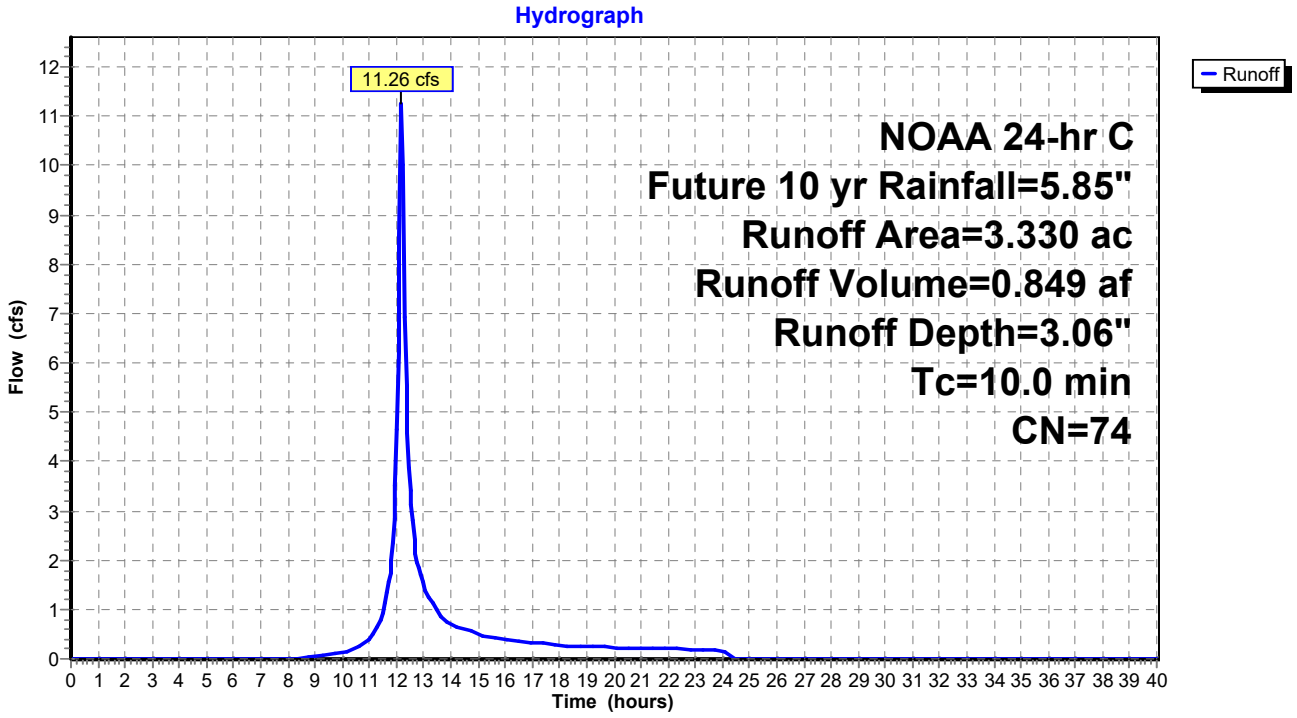
Runoff = 11.26 cfs @ 12.18 hrs, Volume= 0.849 af, Depth= 3.06"
Routed to Link PDA-3 : Proposed Drainage Area #3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
3.330	74	>75% Grass cover, Good, HSG C
3.330		100.00% Pervious Area

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

Subcatchment UPDA-3: PDA-3 (undetained)



Summary for Pond B-29: Basin #29

Inflow Area = 1.077 ac, 34.91% Impervious, Inflow Depth = 3.95" for Future 10 yr event
Inflow = 4.38 cfs @ 12.17 hrs, Volume= 0.355 af
Outflow = 2.95 cfs @ 12.28 hrs, Volume= 0.312 af, Atten= 33%, Lag= 6.5 min
Primary = 2.95 cfs @ 12.28 hrs, Volume= 0.312 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 187.37' @ 12.28 hrs Surf.Area= 7,046 sf Storage= 4,900 cf

Plug-Flow detention time= 163.1 min calculated for 0.312 af (88% of inflow)
Center-of-Mass det. time= 103.6 min (897.5 - 793.8)

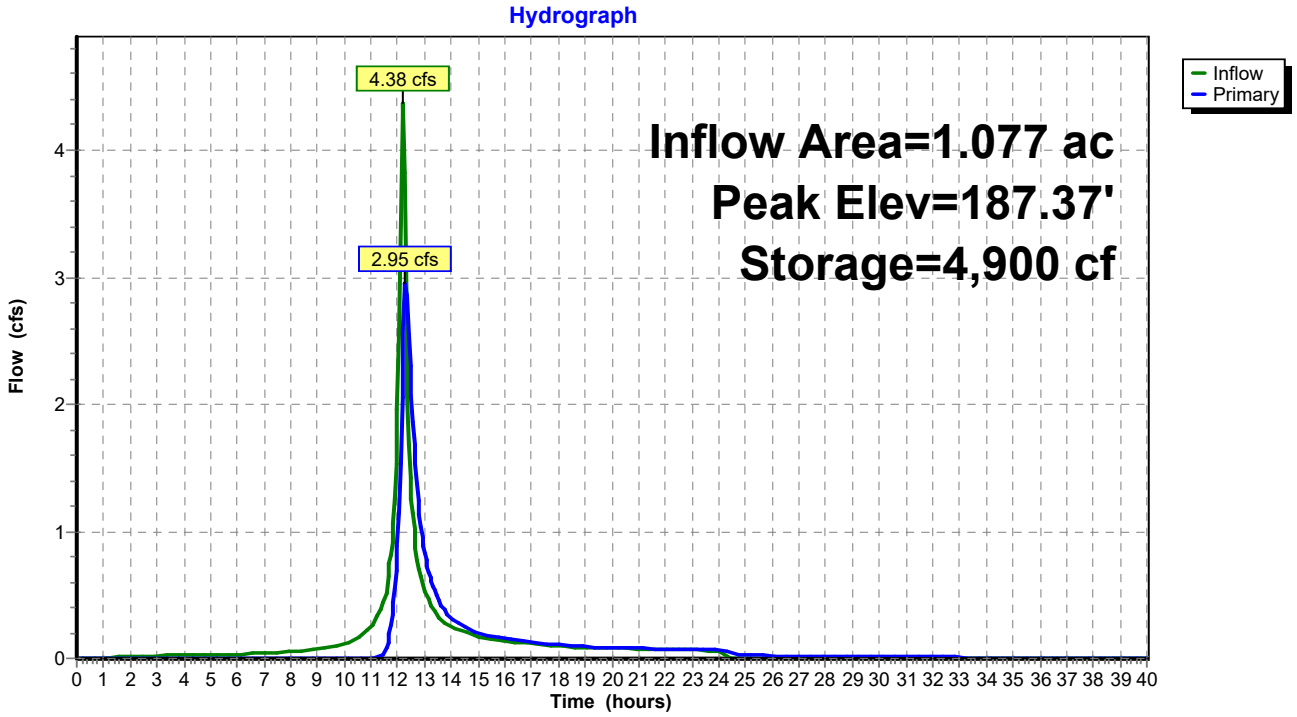
Volume	Invert	Avail.Storage	Storage Description
#1	186.30'	17,435 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
186.30	0	0	0
187.00	6,769	2,369	2,369
188.00	7,526	7,148	9,517
189.00	8,311	7,919	17,435

Device	Routing	Invert	Outlet Devices
#1	Primary	185.65'	**18.0" Round Culvert** L= 177.0' Ke= 0.500 Inlet / Outlet Invert= 185.65' / 182.00' S= 0.0206 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	186.88'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	187.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	188.17'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.93 cfs @ 12.28 hrs HW=187.36' (Free Discharge)
- **1=Culvert** (Passes 2.93 cfs of 8.36 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.10 cfs @ 2.97 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 2.83 cfs @ 1.97 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-29: Basin #29



Stage-Discharge for Pond B-29: Basin #29

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
186.30	0.00	186.82	0.00	187.34	2.65	187.86	10.14
186.31	0.00	186.83	0.00	187.35	2.76	187.87	10.31
186.32	0.00	186.84	0.00	187.36	2.88	187.88	10.35
186.33	0.00	186.85	0.00	187.37	2.99	187.89	10.39
186.34	0.00	186.86	0.00	187.38	3.11	187.90	10.42
186.35	0.00	186.87	0.00	187.39	3.23	187.91	10.46
186.36	0.00	186.88	0.00	187.40	3.35	187.92	10.49
186.37	0.00	186.89	0.00	187.41	3.47	187.93	10.52
186.38	0.00	186.90	0.00	187.42	3.59	187.94	10.56
186.39	0.00	186.91	0.00	187.43	3.72	187.95	10.59
186.40	0.00	186.92	0.00	187.44	3.84	187.96	10.63
186.41	0.00	186.93	0.00	187.45	3.97	187.97	10.66
186.42	0.00	186.94	0.01	187.46	4.10	187.98	10.70
186.43	0.00	186.95	0.01	187.47	4.23	187.99	10.73
186.44	0.00	186.96	0.01	187.48	4.36	188.00	10.76
186.45	0.00	186.97	0.01	187.49	4.49	188.01	10.80
186.46	0.00	186.98	0.02	187.50	4.63	188.02	10.83
186.47	0.00	186.99	0.02	187.51	4.76	188.03	10.86
186.48	0.00	187.00	0.02	187.52	4.90	188.04	10.90
186.49	0.00	187.01	0.04	187.53	5.03	188.05	10.93
186.50	0.00	187.02	0.07	187.54	5.17	188.06	10.96
186.51	0.00	187.03	0.10	187.55	5.31	188.07	11.00
186.52	0.00	187.04	0.14	187.56	5.45	188.08	11.03
186.53	0.00	187.05	0.19	187.57	5.59	188.09	11.06
186.54	0.00	187.06	0.24	187.58	5.74	188.10	11.09
186.55	0.00	187.07	0.29	187.59	5.88	188.11	11.13
186.56	0.00	187.08	0.35	187.60	6.03	188.12	11.16
186.57	0.00	187.09	0.40	187.61	6.17	188.13	11.19
186.58	0.00	187.10	0.47	187.62	6.32	188.14	11.22
186.59	0.00	187.11	0.53	187.63	6.47	188.15	11.26
186.60	0.00	187.12	0.60	187.64	6.62	188.16	11.29
186.61	0.00	187.13	0.67	187.65	6.77	188.17	11.32
186.62	0.00	187.14	0.75	187.66	6.92	188.18	11.47
186.63	0.00	187.15	0.82	187.67	7.07	188.19	11.72
186.64	0.00	187.16	0.90	187.68	7.22	188.20	12.02
186.65	0.00	187.17	0.98	187.69	7.38	188.21	12.39
186.66	0.00	187.18	1.06	187.70	7.53	188.22	12.79
186.67	0.00	187.19	1.15	187.71	7.69	188.23	13.23
186.68	0.00	187.20	1.23	187.72	7.84	188.24	13.72
186.69	0.00	187.21	1.32	187.73	8.00	188.25	14.23
186.70	0.00	187.22	1.41	187.74	8.16	188.26	14.78
186.71	0.00	187.23	1.51	187.75	8.32	188.27	15.35
186.72	0.00	187.24	1.60	187.76	8.48	188.28	15.96
186.73	0.00	187.25	1.70	187.77	8.64	188.29	16.59
186.74	0.00	187.26	1.80	187.78	8.81	188.30	17.25
186.75	0.00	187.27	1.90	187.79	8.97	188.31	17.93
186.76	0.00	187.28	2.00	187.80	9.13	188.32	18.64
186.77	0.00	187.29	2.10	187.81	9.30	188.33	19.37
186.78	0.00	187.30	2.21	187.82	9.46	188.34	20.12
186.79	0.00	187.31	2.32	187.83	9.63	188.35	20.89
186.80	0.00	187.32	2.42	187.84	9.80	188.36	21.69
186.81	0.00	187.33	2.54	187.85	9.97	188.37	22.51

Stage-Discharge for Pond B-29: Basin #29 (continued)

Elevation (feet)	Primary (cfs)
188.38	23.38
188.39	24.29
188.40	25.22
188.41	26.17
188.42	27.15
188.43	28.15
188.44	29.18
188.45	30.23
188.46	31.31
188.47	32.41
188.48	33.54
188.49	34.69
188.50	35.86
188.51	37.06
188.52	38.29
188.53	39.53
188.54	40.80
188.55	42.10
188.56	43.42
188.57	44.76
188.58	46.16
188.59	47.58
188.60	49.03
188.61	50.50
188.62	52.00
188.63	53.52
188.64	55.07
188.65	56.65
188.66	58.25
188.67	59.88
188.68	61.54
188.69	63.22
188.70	64.93
188.71	66.67
188.72	68.43
188.73	70.22
188.74	72.04
188.75	73.88
188.76	75.75
188.77	77.65
188.78	79.30
188.79	80.97
188.80	82.65
188.81	84.35
188.82	86.06
188.83	87.78
188.84	89.51
188.85	91.26
188.86	93.02
188.87	94.79
188.88	96.58
188.89	98.37
188.90	100.19
188.91	102.01
188.92	103.84
188.93	105.69
188.94	107.55
188.95	109.42
188.96	111.31
188.97	113.21
188.98	115.15
188.99	117.11
189.00	**119.08**

Stage-Area-Storage for Pond B-29: Basin #29

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.30	0	0
186.31	97	0
186.32	193	2
186.33	290	4
186.34	387	8
186.35	484	12
186.36	580	17
186.37	677	24
186.38	774	31
186.39	870	39
186.40	967	48
186.41	1,064	59
186.42	1,160	70
186.43	1,257	82
186.44	1,354	95
186.45	1,451	109
186.46	1,547	124
186.47	1,644	140
186.48	1,741	157
186.49	1,837	175
186.50	1,934	193
186.51	2,031	213
186.52	2,127	234
186.53	2,224	256
186.54	2,321	278
186.55	2,418	302
186.56	2,514	327
186.57	2,611	352
186.58	2,708	379
186.59	2,804	407
186.60	2,901	435
186.61	2,998	465
186.62	3,094	495
186.63	3,191	527
186.64	3,288	559
186.65	3,385	592
186.66	3,481	627
186.67	3,578	662
186.68	3,675	698
186.69	3,771	735
186.70	3,868	774
186.71	3,965	813
186.72	4,061	853
186.73	4,158	894
186.74	4,255	936
186.75	4,351	979
186.76	4,448	1,023
186.77	4,545	1,068
186.78	4,642	1,114
186.79	4,738	1,161
186.80	4,835	1,209
186.81	4,932	1,258
186.82	5,028	1,307
186.83	5,125	1,358
186.84	5,222	1,410
186.85	5,319	1,463
186.86	5,415	1,516
186.87	5,512	1,571
186.88	5,609	1,626
186.89	5,705	1,683
186.90	5,802	1,741
186.91	5,899	1,799
186.92	5,995	1,859
186.93	6,092	1,919
186.94	6,189	1,980
186.95	6,286	2,043
186.96	6,382	2,106
186.97	6,479	2,170
186.98	6,576	2,236
186.99	6,672	2,302
187.00	6,769	2,369
187.01	6,777	2,437
187.02	6,784	2,505
187.03	6,792	2,573
187.04	6,799	2,641
187.05	6,807	2,709
187.06	6,814	2,777
187.07	6,822	2,845
187.08	6,830	2,913
187.09	6,837	2,981
187.10	6,845	3,050
187.11	6,852	3,118
187.12	6,860	3,187
187.13	6,867	3,256
187.14	6,875	3,324
187.15	6,883	3,393
187.16	6,890	3,462
187.17	6,898	3,531
187.18	6,905	3,600
187.19	6,913	3,669
187.20	6,920	3,738
187.21	6,928	3,807
187.22	6,936	3,877
187.23	6,943	3,946
187.24	6,951	4,016
187.25	6,958	4,085
187.26	6,966	4,155
187.27	6,973	4,224
187.28	6,981	4,294
187.29	6,989	4,364
187.30	6,996	4,434
187.31	7,004	4,504
187.32	7,011	4,574
187.33	7,019	4,644

Stage-Area-Storage for Pond B-29: Basin #29 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.34	7,026	4,714	187.86	7,420	8,470
187.35	7,034	4,785	187.87	7,428	8,545
187.36	7,042	4,855	187.88	7,435	8,619
187.37	7,049	4,925	187.89	7,443	8,693
187.38	7,057	4,996	187.90	7,450	8,768
187.39	7,064	5,067	187.91	7,458	8,842
187.40	7,072	5,137	187.92	7,465	8,917
187.41	7,079	5,208	187.93	7,473	8,992
187.42	7,087	5,279	187.94	7,481	9,066
187.43	7,095	5,350	187.95	7,488	9,141
187.44	7,102	5,421	187.96	7,496	9,216
187.45	7,110	5,492	187.97	7,503	9,291
187.46	7,117	5,563	187.98	7,511	9,366
187.47	7,125	5,634	187.99	7,518	9,441
187.48	7,132	5,705	188.00	7,526	9,517
187.49	7,140	5,777	188.01	7,534	9,592
187.50	7,148	5,848	188.02	7,542	9,667
187.51	7,155	5,920	188.03	7,550	9,743
187.52	7,163	5,991	188.04	7,557	9,818
187.53	7,170	6,063	188.05	7,565	9,894
187.54	7,178	6,135	188.06	7,573	9,970
187.55	7,185	6,207	188.07	7,581	10,045
187.56	7,193	6,278	188.08	7,589	10,121
187.57	7,200	6,350	188.09	7,597	10,197
187.58	7,208	6,422	188.10	7,605	10,273
187.59	7,216	6,495	188.11	7,612	10,349
187.60	7,223	6,567	188.12	7,620	10,425
187.61	7,231	6,639	188.13	7,628	10,502
187.62	7,238	6,711	188.14	7,636	10,578
187.63	7,246	6,784	188.15	7,644	10,654
187.64	7,253	6,856	188.16	7,652	10,731
187.65	7,261	6,929	188.17	7,659	10,807
187.66	7,269	7,002	188.18	7,667	10,884
187.67	7,276	7,074	188.19	7,675	10,961
187.68	7,284	7,147	188.20	7,683	11,038
187.69	7,291	7,220	188.21	7,691	11,114
187.70	7,299	7,293	188.22	7,699	11,191
187.71	7,306	7,366	188.23	7,707	11,268
187.72	7,314	7,439	188.24	7,714	11,345
187.73	7,322	7,512	188.25	7,722	11,423
187.74	7,329	7,585	188.26	7,730	11,500
187.75	7,337	7,659	188.27	7,738	11,577
187.76	7,344	7,732	188.28	7,746	11,655
187.77	7,352	7,806	188.29	7,754	11,732
187.78	7,359	7,879	188.30	7,762	11,810
187.79	7,367	7,953	188.31	7,769	11,887
187.80	7,375	8,027	188.32	7,777	11,965
187.81	7,382	8,100	188.33	7,785	12,043
187.82	7,390	8,174	188.34	7,793	12,121
187.83	7,397	8,248	188.35	7,801	12,199
187.84	7,405	8,322	188.36	7,809	12,277
187.85	7,412	8,396	188.37	7,816	12,355

Stage-Area-Storage for Pond B-29: Basin #29 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
188.38	7,824	12,433
188.39	7,832	12,511
188.40	7,840	12,590
188.41	7,848	12,668
188.42	7,856	12,747
188.43	7,864	12,825
188.44	7,871	12,904
188.45	7,879	12,983
188.46	7,887	13,062
188.47	7,895	13,141
188.48	7,903	13,220
188.49	7,911	13,299
188.50	7,919	13,378
188.51	7,926	13,457
188.52	7,934	13,536
188.53	7,942	13,616
188.54	7,950	13,695
188.55	7,958	13,775
188.56	7,966	13,854
188.57	7,973	13,934
188.58	7,981	14,014
188.59	7,989	14,094
188.60	7,997	14,174
188.61	8,005	14,254
188.62	8,013	14,334
188.63	8,021	14,414
188.64	8,028	14,494
188.65	8,036	14,574
188.66	8,044	14,655
188.67	8,052	14,735
188.68	8,060	14,816
188.69	8,068	14,896
188.70	8,076	14,977
188.71	8,083	15,058
188.72	8,091	15,139
188.73	8,099	15,220
188.74	8,107	15,301
188.75	8,115	15,382
188.76	8,123	15,463
188.77	8,130	15,544
188.78	8,138	15,626
188.79	8,146	15,707
188.80	8,154	15,789
188.81	8,162	15,870
188.82	8,170	15,952
188.83	8,178	16,034
188.84	8,185	16,115
188.85	8,193	16,197
188.86	8,201	16,279
188.87	8,209	16,361
188.88	8,217	16,443
188.89	8,225	16,526
188.90	8,233	16,608
188.91	8,240	16,690
188.92	8,248	16,773
188.93	8,256	16,855
188.94	8,264	16,938
188.95	8,272	17,021
188.96	8,280	17,103
188.97	8,287	17,186
188.98	8,295	17,269
188.99	8,303	17,352
189.00	**8,311**	**17,435**

Summary for Pond B-30: Basin #30

Inflow Area = 5.727 ac, 37.05% Impervious, Inflow Depth > 3.80" for Future 10 yr event
Inflow = 16.95 cfs @ 12.22 hrs, Volume= 1.814 af
Outflow = 5.24 cfs @ 12.72 hrs, Volume= 1.402 af, Atten= 69%, Lag= 30.1 min
Primary = 5.24 cfs @ 12.72 hrs, Volume= 1.402 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 178.53' @ 12.72 hrs Surf.Area= 14,219 sf Storage= 34,532 cf

Plug-Flow detention time= 386.9 min calculated for 1.402 af (77% of inflow)
Center-of-Mass det. time= 273.6 min (1,140.6 - 867.0)

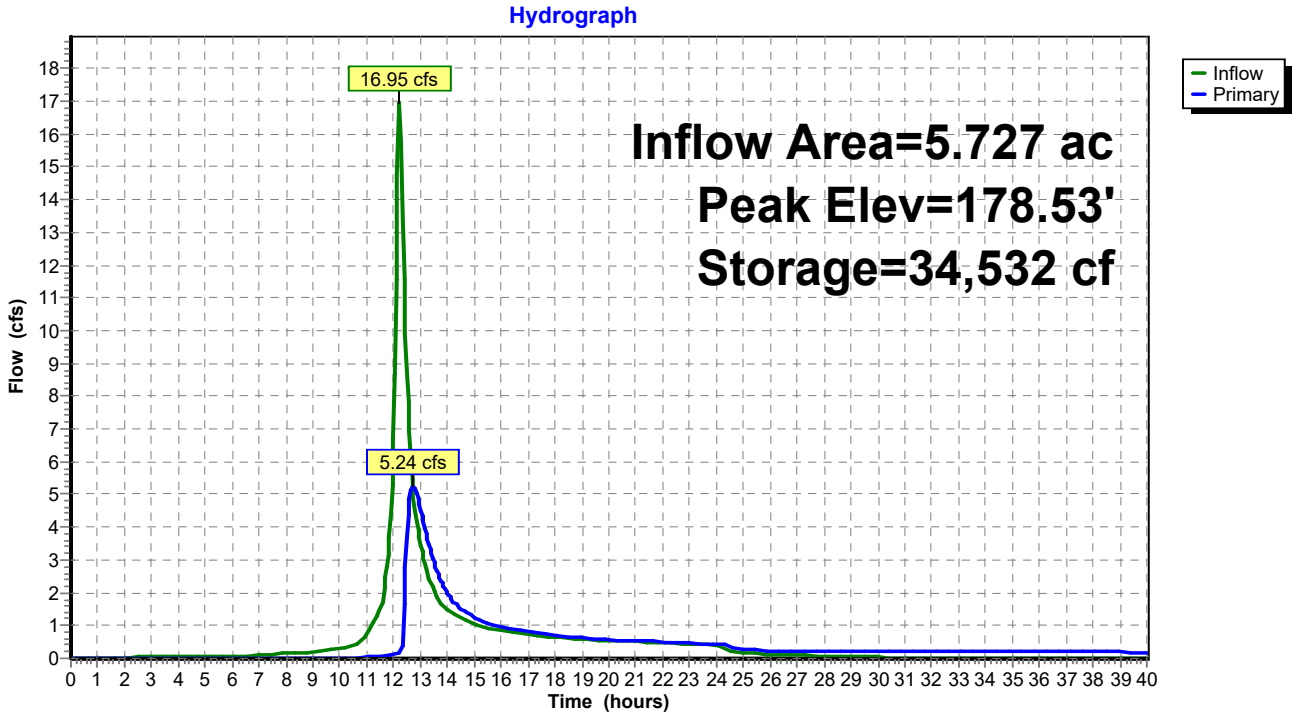
Volume	Invert	Avail.Storage	Storage Description
#1	175.30'	57,146 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
175.30	0	0	0
176.00	10,254	3,589	3,589
177.00	11,773	11,014	14,602
178.00	13,346	12,560	27,162
179.00	14,978	14,162	41,324
180.00	16,667	15,823	57,146

Device	Routing	Invert	Outlet Devices
#1	Primary	174.65'	**18.0" Round Culvert** L= 86.0' Ke= 0.500 Inlet / Outlet Invert= 174.65' / 174.00' S= 0.0076 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	175.93'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	178.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	179.50'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=5.22 cfs @ 12.72 hrs HW=178.53' (Free Discharge)
- **1=Culvert** (Passes 5.22 cfs of 14.09 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.26 cfs @ 7.61 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 4.96 cfs @ 2.39 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-30: Basin #30



Stage-Discharge for Pond B-30: Basin #30

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
175.30	0.00	175.82	0.00	176.34	0.09	176.86	0.15
175.31	0.00	175.83	0.00	176.35	0.09	176.87	0.15
175.32	0.00	175.84	0.00	176.36	0.09	176.88	0.15
175.33	0.00	175.85	0.00	176.37	0.10	176.89	0.15
175.34	0.00	175.86	0.00	176.38	0.10	176.90	0.15
175.35	0.00	175.87	0.00	176.39	0.10	176.91	0.15
175.36	0.00	175.88	0.00	176.40	0.10	176.92	0.15
175.37	0.00	175.89	0.00	176.41	0.10	176.93	0.16
175.38	0.00	175.90	0.00	176.42	0.10	176.94	0.16
175.39	0.00	175.91	0.00	176.43	0.10	176.95	0.16
175.40	0.00	175.92	0.00	176.44	0.10	176.96	0.16
175.41	0.00	175.93	0.00	176.45	0.11	176.97	0.16
175.42	0.00	175.94	0.00	176.46	0.11	176.98	0.16
175.43	0.00	175.95	0.00	176.47	0.11	176.99	0.16
175.44	0.00	175.96	0.00	176.48	0.11	177.00	0.16
175.45	0.00	175.97	0.00	176.49	0.11	177.01	0.16
175.46	0.00	175.98	0.00	176.50	0.11	177.02	0.16
175.47	0.00	175.99	0.01	176.51	0.11	177.03	0.16
175.48	0.00	176.00	0.01	176.52	0.11	177.04	0.16
175.49	0.00	176.01	0.01	176.53	0.12	177.05	0.17
175.50	0.00	176.02	0.01	176.54	0.12	177.06	0.17
175.51	0.00	176.03	0.02	176.55	0.12	177.07	0.17
175.52	0.00	176.04	0.02	176.56	0.12	177.08	0.17
175.53	0.00	176.05	0.02	176.57	0.12	177.09	0.17
175.54	0.00	176.06	0.03	176.58	0.12	177.10	0.17
175.55	0.00	176.07	0.03	176.59	0.12	177.11	0.17
175.56	0.00	176.08	0.03	176.60	0.12	177.12	0.17
175.57	0.00	176.09	0.04	176.61	0.12	177.13	0.17
175.58	0.00	176.10	0.04	176.62	0.13	177.14	0.17
175.59	0.00	176.11	0.05	176.63	0.13	177.15	0.17
175.60	0.00	176.12	0.05	176.64	0.13	177.16	0.17
175.61	0.00	176.13	0.05	176.65	0.13	177.17	0.17
175.62	0.00	176.14	0.05	176.66	0.13	177.18	0.18
175.63	0.00	176.15	0.06	176.67	0.13	177.19	0.18
175.64	0.00	176.16	0.06	176.68	0.13	177.20	0.18
175.65	0.00	176.17	0.06	176.69	0.13	177.21	0.18
175.66	0.00	176.18	0.06	176.70	0.13	177.22	0.18
175.67	0.00	176.19	0.06	176.71	0.13	177.23	0.18
175.68	0.00	176.20	0.07	176.72	0.14	177.24	0.18
175.69	0.00	176.21	0.07	176.73	0.14	177.25	0.18
175.70	0.00	176.22	0.07	176.74	0.14	177.26	0.18
175.71	0.00	176.23	0.07	176.75	0.14	177.27	0.18
175.72	0.00	176.24	0.07	176.76	0.14	177.28	0.18
175.73	0.00	176.25	0.08	176.77	0.14	177.29	0.18
175.74	0.00	176.26	0.08	176.78	0.14	177.30	0.18
175.75	0.00	176.27	0.08	176.79	0.14	177.31	0.19
175.76	0.00	176.28	0.08	176.80	0.14	177.32	0.19
175.77	0.00	176.29	0.08	176.81	0.14	177.33	0.19
175.78	0.00	176.30	0.08	176.82	0.15	177.34	0.19
175.79	0.00	176.31	0.09	176.83	0.15	177.35	0.19
175.80	0.00	176.32	0.09	176.84	0.15	177.36	0.19
175.81	0.00	176.33	0.09	176.85	0.15	177.37	0.19

Stage-Discharge for Pond B-30: Basin #30 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
177.38	0.19	177.90	0.22	178.42	3.74	178.94	11.64
177.39	0.19	177.91	0.22	178.43	3.86	178.95	11.82
177.40	0.19	177.92	0.23	178.44	3.99	178.96	11.99
177.41	0.19	177.93	0.23	178.45	4.11	178.97	12.17
177.42	0.19	177.94	0.23	178.46	4.24	178.98	12.35
177.43	0.19	177.95	0.23	178.47	4.37	178.99	12.53
177.44	0.19	177.96	0.23	178.48	4.50	179.00	12.71
177.45	0.20	177.97	0.23	178.49	4.63	179.01	12.89
177.46	0.20	177.98	0.23	178.50	4.77	179.02	13.07
177.47	0.20	177.99	0.23	178.51	4.90	179.03	13.25
177.48	0.20	178.00	0.23	178.52	5.04	179.04	13.44
177.49	0.20	178.01	0.24	178.53	5.17	179.05	13.62
177.50	0.20	178.02	0.27	178.54	5.31	179.06	13.80
177.51	0.20	178.03	0.30	178.55	5.45	179.07	13.99
177.52	0.20	178.04	0.34	178.56	5.59	179.08	14.17
177.53	0.20	178.05	0.38	178.57	5.73	179.09	14.36
177.54	0.20	178.06	0.43	178.58	5.87	179.10	14.55
177.55	0.20	178.07	0.48	178.59	6.02	179.11	14.74
177.56	0.20	178.08	0.53	178.60	6.16	179.12	14.92
177.57	0.20	178.09	0.59	178.61	6.31	179.13	15.11
177.58	0.20	178.10	0.65	178.62	6.45	179.14	15.30
177.59	0.20	178.11	0.71	178.63	6.60	179.15	15.46
177.60	0.21	178.12	0.78	178.64	6.75	179.16	15.48
177.61	0.21	178.13	0.85	178.65	6.90	179.17	15.50
177.62	0.21	178.14	0.92	178.66	7.05	179.18	15.52
177.63	0.21	178.15	0.99	178.67	7.20	179.19	15.54
177.64	0.21	178.16	1.07	178.68	7.35	179.20	15.56
177.65	0.21	178.17	1.15	178.69	7.51	179.21	15.58
177.66	0.21	178.18	1.23	178.70	7.66	179.22	15.60
177.67	0.21	178.19	1.31	178.71	7.82	179.23	15.62
177.68	0.21	178.20	1.40	178.72	7.97	179.24	15.65
177.69	0.21	178.21	1.49	178.73	8.13	179.25	15.67
177.70	0.21	178.22	1.58	178.74	8.29	179.26	15.69
177.71	0.21	178.23	1.67	178.75	8.45	179.27	15.71
177.72	0.21	178.24	1.76	178.76	8.61	179.28	15.73
177.73	0.21	178.25	1.86	178.77	8.77	179.29	15.75
177.74	0.21	178.26	1.96	178.78	8.93	179.30	15.77
177.75	0.22	178.27	2.06	178.79	9.09	179.31	15.79
177.76	0.22	178.28	2.16	178.80	9.26	179.32	15.81
177.77	0.22	178.29	2.26	178.81	9.42	179.33	15.83
177.78	0.22	178.30	2.36	178.82	9.59	179.34	15.85
177.79	0.22	178.31	2.47	178.83	9.75	179.35	15.87
177.80	0.22	178.32	2.58	178.84	9.92	179.36	15.89
177.81	0.22	178.33	2.69	178.85	10.09	179.37	15.91
177.82	0.22	178.34	2.80	178.86	10.26	179.38	15.94
177.83	0.22	178.35	2.91	178.87	10.43	179.39	15.96
177.84	0.22	178.36	3.02	178.88	10.60	179.40	15.98
177.85	0.22	178.37	3.14	178.89	10.77	179.41	16.00
177.86	0.22	178.38	3.26	178.90	10.94	179.42	16.02
177.87	0.22	178.39	3.38	178.91	11.12	179.43	16.04
177.88	0.22	178.40	3.50	178.92	11.29	179.44	16.06
177.89	0.22	178.41	3.62	178.93	11.46	179.45	16.08

Stage-Discharge for Pond B-30: Basin #30 (continued)

Elevation (feet)	Primary (cfs)
179.46	16.10
179.47	16.12
179.48	16.14
179.49	16.16
179.50	16.18
179.51	16.32
179.52	16.55
179.53	16.85
179.54	17.20
179.55	17.59
179.56	18.03
179.57	18.50
179.58	19.00
179.59	19.53
179.60	20.10
179.61	20.69
179.62	21.31
179.63	21.96
179.64	22.63
179.65	23.33
179.66	24.05
179.67	24.79
179.68	25.55
179.69	26.34
179.70	27.14
179.71	28.01
179.72	28.90
179.73	29.82
179.74	30.76
179.75	31.73
179.76	32.72
179.77	33.74
179.78	34.79
179.79	35.85
179.80	36.94
179.81	38.06
179.82	39.20
179.83	40.37
179.84	41.56
179.85	42.77
179.86	44.01
179.87	45.27
179.88	46.56
179.89	47.87
179.90	49.20
179.91	50.58
179.92	52.00
179.93	53.43
179.94	54.90
179.95	56.39
179.96	57.90
179.97	59.44
179.98	61.01
179.99	62.61
180.00	**64.23**

Stage-Area-Storage for Pond B-30: Basin #30

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
175.30	0	0	175.82	7,617	1,980
175.31	146	1	175.83	7,764	2,057
175.32	293	3	175.84	7,910	2,136
175.33	439	7	175.85	8,057	2,216
175.34	586	12	175.86	8,203	2,297
175.35	732	18	175.87	8,350	2,380
175.36	879	26	175.88	8,496	2,464
175.37	1,025	36	175.89	8,643	2,550
175.38	1,172	47	175.90	8,789	2,637
175.39	1,318	59	175.91	8,936	2,725
175.40	1,465	73	175.92	9,082	2,815
175.41	1,611	89	175.93	9,229	2,907
175.42	1,758	105	175.94	9,375	3,000
175.43	1,904	124	175.95	9,522	3,095
175.44	2,051	144	175.96	9,668	3,190
175.45	2,197	165	175.97	9,815	3,288
175.46	2,344	188	175.98	9,961	3,387
175.47	2,490	212	175.99	10,108	3,487
175.48	2,637	237	176.00	10,254	3,589
175.49	2,783	264	176.01	10,269	3,692
175.50	2,930	293	176.02	10,284	3,794
175.51	3,076	323	176.03	10,300	3,897
175.52	3,223	354	176.04	10,315	4,000
175.53	3,369	387	176.05	10,330	4,103
175.54	3,516	422	176.06	10,345	4,207
175.55	3,662	458	176.07	10,360	4,310
175.56	3,809	495	176.08	10,376	4,414
175.57	3,955	534	176.09	10,391	4,518
175.58	4,102	574	176.10	10,406	4,622
175.59	4,248	616	176.11	10,421	4,726
175.60	4,395	659	176.12	10,436	4,830
175.61	4,541	704	176.13	10,451	4,935
175.62	4,688	750	176.14	10,467	5,039
175.63	4,834	798	176.15	10,482	5,144
175.64	4,981	847	176.16	10,497	5,249
175.65	5,127	897	176.17	10,512	5,354
175.66	5,273	949	176.18	10,527	5,459
175.67	5,420	1,003	176.19	10,543	5,565
175.68	5,566	1,058	176.20	10,558	5,670
175.69	5,713	1,114	176.21	10,573	5,776
175.70	5,859	1,172	176.22	10,588	5,882
175.71	6,006	1,231	176.23	10,603	5,987
175.72	6,152	1,292	176.24	10,619	6,094
175.73	6,299	1,354	176.25	10,634	6,200
175.74	6,445	1,418	176.26	10,649	6,306
175.75	6,592	1,483	176.27	10,664	6,413
175.76	6,738	1,550	176.28	10,679	6,520
175.77	6,885	1,618	176.29	10,695	6,626
175.78	7,031	1,688	176.30	10,710	6,733
175.79	7,178	1,759	176.31	10,725	6,841
175.80	7,324	1,831	176.32	10,740	6,948
175.81	7,471	1,905	176.33	10,755	7,055

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
176.34	10,770	7,163	176.86	11,560	12,969
176.35	10,786	7,271	176.87	11,576	13,085
176.36	10,801	7,379	176.88	11,591	13,201
176.37	10,816	7,487	176.89	11,606	13,317
176.38	10,831	7,595	176.90	11,621	13,433
176.39	10,846	7,703	176.91	11,636	13,549
176.40	10,862	7,812	176.92	11,651	13,665
176.41	10,877	7,921	176.93	11,667	13,782
176.42	10,892	8,030	176.94	11,682	13,899
176.43	10,907	8,139	176.95	11,697	14,016
176.44	10,922	8,248	176.96	11,712	14,133
176.45	10,938	8,357	176.97	11,727	14,250
176.46	10,953	8,466	176.98	11,743	14,367
176.47	10,968	8,576	176.99	11,758	14,485
176.48	10,983	8,686	177.00	11,773	14,602
176.49	10,998	8,796	177.01	11,789	14,720
176.50	11,014	8,906	177.02	11,804	14,838
176.51	11,029	9,016	177.03	11,820	14,956
176.52	11,044	9,126	177.04	11,836	15,075
176.53	11,059	9,237	177.05	11,852	15,193
176.54	11,074	9,348	177.06	11,867	15,312
176.55	11,089	9,458	177.07	11,883	15,430
176.56	11,105	9,569	177.08	11,899	15,549
176.57	11,120	9,680	177.09	11,915	15,668
176.58	11,135	9,792	177.10	11,930	15,788
176.59	11,150	9,903	177.11	11,946	15,907
176.60	11,165	10,015	177.12	11,962	16,026
176.61	11,181	10,126	177.13	11,977	16,146
176.62	11,196	10,238	177.14	11,993	16,266
176.63	11,211	10,350	177.15	12,009	16,386
176.64	11,226	10,463	177.16	12,025	16,506
176.65	11,241	10,575	177.17	12,040	16,627
176.66	11,257	10,687	177.18	12,056	16,747
176.67	11,272	10,800	177.19	12,072	16,868
176.68	11,287	10,913	177.20	12,088	16,988
176.69	11,302	11,026	177.21	12,103	17,109
176.70	11,317	11,139	177.22	12,119	17,231
176.71	11,332	11,252	177.23	12,135	17,352
176.72	11,348	11,366	177.24	12,151	17,473
176.73	11,363	11,479	177.25	12,166	17,595
176.74	11,378	11,593	177.26	12,182	17,717
176.75	11,393	11,707	177.27	12,198	17,838
176.76	11,408	11,821	177.28	12,213	17,961
176.77	11,424	11,935	177.29	12,229	18,083
176.78	11,439	12,049	177.30	12,245	18,205
176.79	11,454	12,164	177.31	12,261	18,328
176.80	11,469	12,278	177.32	12,276	18,450
176.81	11,484	12,393	177.33	12,292	18,573
176.82	11,500	12,508	177.34	12,308	18,696
176.83	11,515	12,623	177.35	12,324	18,819
176.84	11,530	12,738	177.36	12,339	18,943
176.85	11,545	12,854	177.37	12,355	19,066

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
177.38	12,371	19,190	177.90	13,189	25,835
177.39	12,386	19,313	177.91	13,204	25,967
177.40	12,402	19,437	177.92	13,220	26,099
177.41	12,418	19,562	177.93	13,236	26,232
177.42	12,434	19,686	177.94	13,252	26,364
177.43	12,449	19,810	177.95	13,267	26,497
177.44	12,465	19,935	177.96	13,283	26,629
177.45	12,481	20,060	177.97	13,299	26,762
177.46	12,497	20,184	177.98	13,315	26,895
177.47	12,512	20,309	177.99	13,330	27,029
177.48	12,528	20,435	178.00	13,346	27,162
177.49	12,544	20,560	178.01	13,362	27,295
177.50	12,560	20,686	178.02	13,379	27,429
177.51	12,575	20,811	178.03	13,395	27,563
177.52	12,591	20,937	178.04	13,411	27,697
177.53	12,607	21,063	178.05	13,428	27,831
177.54	12,622	21,189	178.06	13,444	27,966
177.55	12,638	21,315	178.07	13,460	28,100
177.56	12,654	21,442	178.08	13,477	28,235
177.57	12,670	21,569	178.09	13,493	28,370
177.58	12,685	21,695	178.10	13,509	28,505
177.59	12,701	21,822	178.11	13,526	28,640
177.60	12,717	21,949	178.12	13,542	28,775
177.61	12,733	22,077	178.13	13,558	28,911
177.62	12,748	22,204	178.14	13,574	29,046
177.63	12,764	22,332	178.15	13,591	29,182
177.64	12,780	22,459	178.16	13,607	29,318
177.65	12,795	22,587	178.17	13,623	29,454
177.66	12,811	22,715	178.18	13,640	29,591
177.67	12,827	22,843	178.19	13,656	29,727
177.68	12,843	22,972	178.20	13,672	29,864
177.69	12,858	23,100	178.21	13,689	30,001
177.70	12,874	23,229	178.22	13,705	30,138
177.71	12,890	23,358	178.23	13,721	30,275
177.72	12,906	23,487	178.24	13,738	30,412
177.73	12,921	23,616	178.25	13,754	30,549
177.74	12,937	23,745	178.26	13,770	30,687
177.75	12,953	23,875	178.27	13,787	30,825
177.76	12,968	24,004	178.28	13,803	30,963
177.77	12,984	24,134	178.29	13,819	31,101
177.78	13,000	24,264	178.30	13,836	31,239
177.79	13,016	24,394	178.31	13,852	31,378
177.80	13,031	24,524	178.32	13,868	31,516
177.81	13,047	24,655	178.33	13,885	31,655
177.82	13,063	24,785	178.34	13,901	31,794
177.83	13,079	24,916	178.35	13,917	31,933
177.84	13,094	25,047	178.36	13,934	32,072
177.85	13,110	25,178	178.37	13,950	32,212
177.86	13,126	25,309	178.38	13,966	32,351
177.87	13,142	25,440	178.39	13,982	32,491
177.88	13,157	25,572	178.40	13,999	32,631
177.89	13,173	25,703	178.41	14,015	32,771

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.42	14,031	32,911
178.43	14,048	33,052
178.44	14,064	33,192
178.45	14,080	33,333
178.46	14,097	33,474
178.47	14,113	33,615
178.48	14,129	33,756
178.49	14,146	33,897
178.50	14,162	34,039
178.51	14,178	34,181
178.52	14,195	34,322
178.53	14,211	34,464
178.54	14,227	34,607
178.55	14,244	34,749
178.56	14,260	34,892
178.57	14,276	35,034
178.58	14,293	35,177
178.59	14,309	35,320
178.60	14,325	35,463
178.61	14,342	35,607
178.62	14,358	35,750
178.63	14,374	35,894
178.64	14,390	36,038
178.65	14,407	36,182
178.66	14,423	36,326
178.67	14,439	36,470
178.68	14,456	36,614
178.69	14,472	36,759
178.70	14,488	36,904
178.71	14,505	37,049
178.72	14,521	37,194
178.73	14,537	37,339
178.74	14,554	37,485
178.75	14,570	37,630
178.76	14,586	37,776
178.77	14,603	37,922
178.78	14,619	38,068
178.79	14,635	38,215
178.80	14,652	38,361
178.81	14,668	38,508
178.82	14,684	38,654
178.83	14,701	38,801
178.84	14,717	38,948
178.85	14,733	39,096
178.86	14,750	39,243
178.87	14,766	39,391
178.88	14,782	39,538
178.89	14,798	39,686
178.90	14,815	39,834
178.91	14,831	39,982
178.92	14,847	40,131
178.93	14,864	40,279
178.94	14,880	40,428
178.95	14,896	40,577
178.96	14,913	40,726
178.97	14,929	40,875
178.98	14,945	41,025
178.99	14,962	41,174
179.00	14,978	41,324
179.01	14,995	41,474
179.02	15,012	41,624
179.03	15,029	41,774
179.04	15,046	41,924
179.05	15,062	42,075
179.06	15,079	42,226
179.07	15,096	42,376
179.08	15,113	42,528
179.09	15,130	42,679
179.10	15,147	42,830
179.11	15,164	42,982
179.12	15,181	43,133
179.13	15,198	43,285
179.14	15,214	43,437
179.15	15,231	43,590
179.16	15,248	43,742
179.17	15,265	43,895
179.18	15,282	44,047
179.19	15,299	44,200
179.20	15,316	44,353
179.21	15,333	44,507
179.22	15,350	44,660
179.23	15,366	44,814
179.24	15,383	44,967
179.25	15,400	45,121
179.26	15,417	45,275
179.27	15,434	45,430
179.28	15,451	45,584
179.29	15,468	45,739
179.30	15,485	45,893
179.31	15,502	46,048
179.32	15,518	46,203
179.33	15,535	46,359
179.34	15,552	46,514
179.35	15,569	46,670
179.36	15,586	46,825
179.37	15,603	46,981
179.38	15,620	47,137
179.39	15,637	47,294
179.40	15,654	47,450
179.41	15,670	47,607
179.42	15,687	47,764
179.43	15,704	47,921
179.44	15,721	48,078
179.45	15,738	48,235

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.46	15,755	48,392
179.47	15,772	48,550
179.48	15,789	48,708
179.49	15,806	48,866
179.50	15,823	49,024
179.51	15,839	49,182
179.52	15,856	49,341
179.53	15,873	49,499
179.54	15,890	49,658
179.55	15,907	49,817
179.56	15,924	49,976
179.57	15,941	50,136
179.58	15,958	50,295
179.59	15,975	50,455
179.60	15,991	50,615
179.61	16,008	50,775
179.62	16,025	50,935
179.63	16,042	51,095
179.64	16,059	51,256
179.65	16,076	51,416
179.66	16,093	51,577
179.67	16,110	51,738
179.68	16,127	51,899
179.69	16,143	52,061
179.70	16,160	52,222
179.71	16,177	52,384
179.72	16,194	52,546
179.73	16,211	52,708
179.74	16,228	52,870
179.75	16,245	53,032
179.76	16,262	53,195
179.77	16,279	53,358
179.78	16,295	53,521
179.79	16,312	53,684
179.80	16,329	53,847
179.81	16,346	54,010
179.82	16,363	54,174
179.83	16,380	54,337
179.84	16,397	54,501
179.85	16,414	54,665
179.86	16,431	54,830
179.87	16,447	54,994
179.88	16,464	55,159
179.89	16,481	55,323
179.90	16,498	55,488
179.91	16,515	55,653
179.92	16,532	55,818
179.93	16,549	55,984
179.94	16,566	56,149
179.95	16,583	56,315
179.96	16,599	56,481
179.97	16,616	56,647
179.98	16,633	56,813
179.99	16,650	56,980
180.00	**16,667**	**57,146**

Summary for Pond B-31: Basin #31

Inflow Area = 0.923 ac, 77.68% Impervious, Inflow Depth = 5.04" for Future 10 yr event
Inflow = 4.52 cfs @ 12.17 hrs, Volume= 0.388 af
Outflow = 2.59 cfs @ 12.31 hrs, Volume= 0.373 af, Atten= 43%, Lag= 8.7 min
Primary = 2.59 cfs @ 12.31 hrs, Volume= 0.373 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 195.32' @ 12.31 hrs Surf.Area= 3,481 sf Storage= 6,920 cf

Plug-Flow detention time= 254.5 min calculated for 0.373 af (96% of inflow)
Center-of-Mass det. time= 230.4 min (992.2 - 761.8)

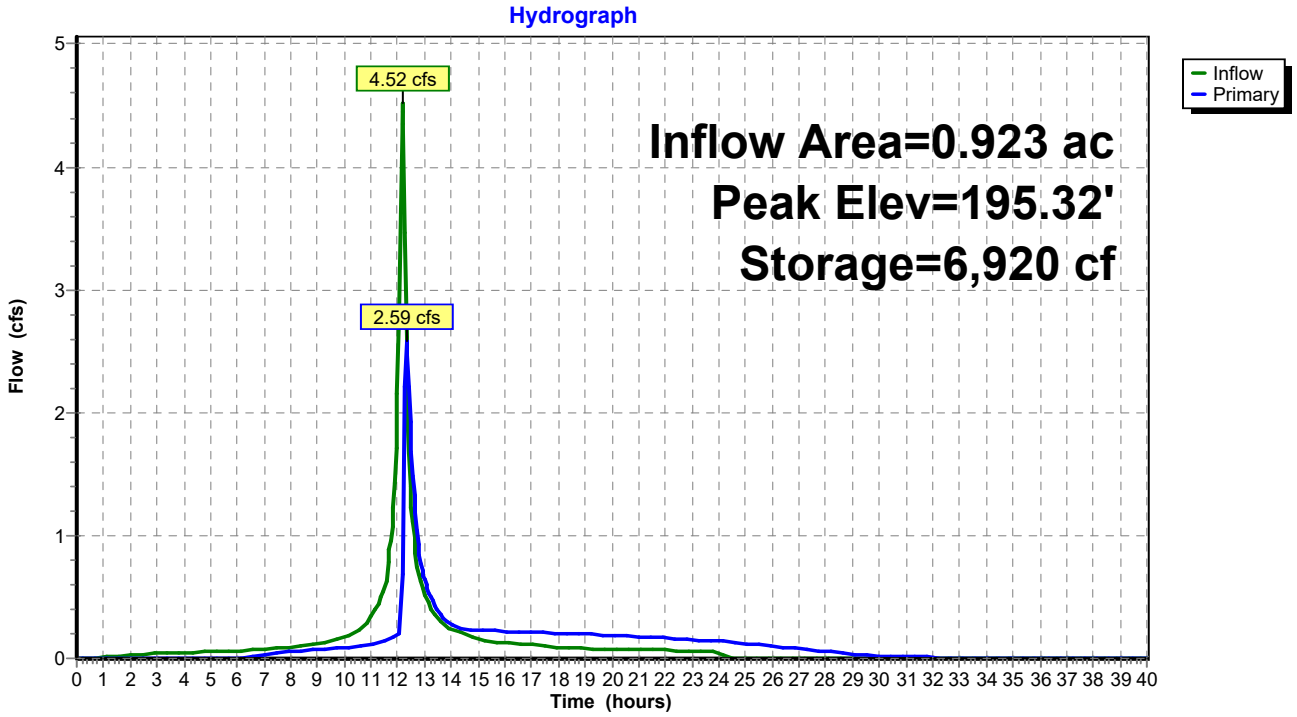
Volume	Invert	Avail.Storage	Storage Description
#1	192.30'	9,453 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.30	0	0	0
193.00	1,944	680	680
194.00	2,566	2,255	2,935
195.00	3,245	2,906	5,841
196.00	3,980	3,613	9,453

Device	Routing	Invert	Outlet Devices
#1	Primary	191.65'	**18.0" Round Culvert** L= 126.0' Ke= 0.500 Inlet / Outlet Invert= 191.65' / 188.00' S= 0.0290 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.97'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	195.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	195.50'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.54 cfs @ 12.31 hrs HW=195.32' (Free Discharge)
- **1=Culvert** (Passes 2.54 cfs of 14.53 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.25 cfs @ 7.21 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 2.29 cfs @ 1.84 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-31: Basin #31



Stage-Discharge for Pond B-31: Basin #31

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.30	0.00	192.82	0.00	193.34	0.08	193.86	0.15
192.31	0.00	192.83	0.00	193.35	0.09	193.87	0.15
192.32	0.00	192.84	0.00	193.36	0.09	193.88	0.15
192.33	0.00	192.85	0.00	193.37	0.09	193.89	0.15
192.34	0.00	192.86	0.00	193.38	0.09	193.90	0.15
192.35	0.00	192.87	0.00	193.39	0.09	193.91	0.15
192.36	0.00	192.88	0.00	193.40	0.09	193.92	0.15
192.37	0.00	192.89	0.00	193.41	0.10	193.93	0.15
192.38	0.00	192.90	0.00	193.42	0.10	193.94	0.15
192.39	0.00	192.91	0.00	193.43	0.10	193.95	0.15
192.40	0.00	192.92	0.00	193.44	0.10	193.96	0.15
192.41	0.00	192.93	0.00	193.45	0.10	193.97	0.16
192.42	0.00	192.94	0.00	193.46	0.10	193.98	0.16
192.43	0.00	192.95	0.00	193.47	0.10	193.99	0.16
192.44	0.00	192.96	0.00	193.48	0.10	194.00	0.16
192.45	0.00	192.97	0.00	193.49	0.11	194.01	0.16
192.46	0.00	192.98	0.00	193.50	0.11	194.02	0.16
192.47	0.00	192.99	0.00	193.51	0.11	194.03	0.16
192.48	0.00	193.00	0.00	193.52	0.11	194.04	0.16
192.49	0.00	193.01	0.00	193.53	0.11	194.05	0.16
192.50	0.00	193.02	0.00	193.54	0.11	194.06	0.16
192.51	0.00	193.03	0.01	193.55	0.11	194.07	0.16
192.52	0.00	193.04	0.01	193.56	0.11	194.08	0.16
192.53	0.00	193.05	0.01	193.57	0.12	194.09	0.17
192.54	0.00	193.06	0.01	193.58	0.12	194.10	0.17
192.55	0.00	193.07	0.02	193.59	0.12	194.11	0.17
192.56	0.00	193.08	0.02	193.60	0.12	194.12	0.17
192.57	0.00	193.09	0.02	193.61	0.12	194.13	0.17
192.58	0.00	193.10	0.03	193.62	0.12	194.14	0.17
192.59	0.00	193.11	0.03	193.63	0.12	194.15	0.17
192.60	0.00	193.12	0.03	193.64	0.12	194.16	0.17
192.61	0.00	193.13	0.04	193.65	0.12	194.17	0.17
192.62	0.00	193.14	0.04	193.66	0.13	194.18	0.17
192.63	0.00	193.15	0.05	193.67	0.13	194.19	0.17
192.64	0.00	193.16	0.05	193.68	0.13	194.20	0.17
192.65	0.00	193.17	0.05	193.69	0.13	194.21	0.17
192.66	0.00	193.18	0.05	193.70	0.13	194.22	0.18
192.67	0.00	193.19	0.06	193.71	0.13	194.23	0.18
192.68	0.00	193.20	0.06	193.72	0.13	194.24	0.18
192.69	0.00	193.21	0.06	193.73	0.13	194.25	0.18
192.70	0.00	193.22	0.06	193.74	0.13	194.26	0.18
192.71	0.00	193.23	0.06	193.75	0.13	194.27	0.18
192.72	0.00	193.24	0.07	193.76	0.14	194.28	0.18
192.73	0.00	193.25	0.07	193.77	0.14	194.29	0.18
192.74	0.00	193.26	0.07	193.78	0.14	194.30	0.18
192.75	0.00	193.27	0.07	193.79	0.14	194.31	0.18
192.76	0.00	193.28	0.07	193.80	0.14	194.32	0.18
192.77	0.00	193.29	0.08	193.81	0.14	194.33	0.18
192.78	0.00	193.30	0.08	193.82	0.14	194.34	0.18
192.79	0.00	193.31	0.08	193.83	0.14	194.35	0.19
192.80	0.00	193.32	0.08	193.84	0.14	194.36	0.19
192.81	0.00	193.33	0.08	193.85	0.14	194.37	0.19

Stage-Discharge for Pond B-31: Basin #31 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.38	0.19	194.90	0.22	195.42	3.74	195.94	49.49
194.39	0.19	194.91	0.22	195.43	3.86	195.95	51.13
194.40	0.19	194.92	0.22	195.44	3.99	195.96	52.81
194.41	0.19	194.93	0.22	195.45	4.11	195.97	54.51
194.42	0.19	194.94	0.22	195.46	4.24	195.98	56.24
194.43	0.19	194.95	0.22	195.47	4.37	195.99	57.99
194.44	0.19	194.96	0.23	195.48	4.50	196.00	**59.77**
194.45	0.19	194.97	0.23	195.49	4.63		
194.46	0.19	194.98	0.23	195.50	4.76		
194.47	0.19	194.99	0.23	195.51	5.02		
194.48	0.19	195.00	0.23	195.52	5.37		
194.49	0.20	195.01	0.24	195.53	5.78		
194.50	0.20	195.02	0.27	195.54	6.25		
194.51	0.20	195.03	0.30	195.55	6.76		
194.52	0.20	195.04	0.33	195.56	7.31		
194.53	0.20	195.05	0.38	195.57	7.90		
194.54	0.20	195.06	0.42	195.58	8.53		
194.55	0.20	195.07	0.47	195.59	9.19		
194.56	0.20	195.08	0.53	195.60	9.88		
194.57	0.20	195.09	0.58	195.61	10.59		
194.58	0.20	195.10	0.65	195.62	11.34		
194.59	0.20	195.11	0.71	195.63	12.12		
194.60	0.20	195.12	0.78	195.64	12.92		
194.61	0.20	195.13	0.84	195.65	13.74		
194.62	0.20	195.14	0.92	195.66	14.59		
194.63	0.20	195.15	0.99	195.67	15.47		
194.64	0.21	195.16	1.07	195.68	16.36		
194.65	0.21	195.17	1.15	195.69	17.28		
194.66	0.21	195.18	1.23	195.70	18.22		
194.67	0.21	195.19	1.31	195.71	19.23		
194.68	0.21	195.20	1.40	195.72	20.25		
194.69	0.21	195.21	1.49	195.73	21.31		
194.70	0.21	195.22	1.58	195.74	22.39		
194.71	0.21	195.23	1.67	195.75	23.50		
194.72	0.21	195.24	1.76	195.76	24.63		
194.73	0.21	195.25	1.86	195.77	25.79		
194.74	0.21	195.26	1.95	195.78	26.98		
194.75	0.21	195.27	2.05	195.79	28.19		
194.76	0.21	195.28	2.15	195.80	29.42		
194.77	0.21	195.29	2.26	195.81	30.69		
194.78	0.21	195.30	2.36	195.82	31.97		
194.79	0.22	195.31	2.47	195.83	33.29		
194.80	0.22	195.32	2.58	195.84	34.62		
194.81	0.22	195.33	2.69	195.85	35.98		
194.82	0.22	195.34	2.80	195.86	37.37		
194.83	0.22	195.35	2.91	195.87	38.78		
194.84	0.22	195.36	3.02	195.88	40.22		
194.85	0.22	195.37	3.14	195.89	41.68		
194.86	0.22	195.38	3.25	195.90	43.17		
194.87	0.22	195.39	3.37	195.91	44.71		
194.88	0.22	195.40	3.49	195.92	46.28		
194.89	0.22	195.41	3.61	195.93	47.87		

Stage-Area-Storage for Pond B-31: Basin #31

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.30	0	0	192.82	1,444	375
192.31	28	0	192.83	1,472	390
192.32	56	1	192.84	1,500	405
192.33	83	1	192.85	1,527	420
192.34	111	2	192.86	1,555	435
192.35	139	3	192.87	1,583	451
192.36	167	5	192.88	1,611	467
192.37	194	7	192.89	1,639	483
192.38	222	9	192.90	1,666	500
192.39	250	11	192.91	1,694	517
192.40	278	14	192.92	1,722	534
192.41	305	17	192.93	1,750	551
192.42	333	20	192.94	1,777	569
192.43	361	23	192.95	1,805	587
192.44	389	27	192.96	1,833	605
192.45	417	31	192.97	1,861	623
192.46	444	36	192.98	1,888	642
192.47	472	40	192.99	1,916	661
192.48	500	45	193.00	1,944	680
192.49	528	50	193.01	1,950	700
192.50	555	56	193.02	1,956	719
192.51	583	61	193.03	1,963	739
192.52	611	67	193.04	1,969	759
192.53	639	73	193.05	1,975	778
192.54	667	80	193.06	1,981	798
192.55	694	87	193.07	1,988	818
192.56	722	94	193.08	1,994	838
192.57	750	101	193.09	2,000	858
192.58	778	109	193.10	2,006	878
192.59	805	117	193.11	2,012	898
192.60	833	125	193.12	2,019	918
192.61	861	133	193.13	2,025	938
192.62	889	142	193.14	2,031	959
192.63	916	151	193.15	2,037	979
192.64	944	161	193.16	2,044	999
192.65	972	170	193.17	2,050	1,020
192.66	1,000	180	193.18	2,056	1,040
192.67	1,028	190	193.19	2,062	1,061
192.68	1,055	201	193.20	2,068	1,082
192.69	1,083	211	193.21	2,075	1,102
192.70	1,111	222	193.22	2,081	1,123
192.71	1,139	233	193.23	2,087	1,144
192.72	1,166	245	193.24	2,093	1,165
192.73	1,194	257	193.25	2,100	1,186
192.74	1,222	269	193.26	2,106	1,207
192.75	1,250	281	193.27	2,112	1,228
192.76	1,277	294	193.28	2,118	1,249
192.77	1,305	307	193.29	2,124	1,270
192.78	1,333	320	193.30	2,131	1,292
192.79	1,361	333	193.31	2,137	1,313
192.80	1,389	347	193.32	2,143	1,334
192.81	1,416	361	193.33	2,149	1,356

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.34	2,155	1,377	193.86	2,479	2,582
193.35	2,162	1,399	193.87	2,485	2,607
193.36	2,168	1,421	193.88	2,491	2,632
193.37	2,174	1,442	193.89	2,498	2,657
193.38	2,180	1,464	193.90	2,504	2,682
193.39	2,187	1,486	193.91	2,510	2,707
193.40	2,193	1,508	193.92	2,516	2,732
193.41	2,199	1,530	193.93	2,522	2,757
193.42	2,205	1,552	193.94	2,529	2,783
193.43	2,211	1,574	193.95	2,535	2,808
193.44	2,218	1,596	193.96	2,541	2,833
193.45	2,224	1,618	193.97	2,547	2,859
193.46	2,230	1,640	193.98	2,554	2,884
193.47	2,236	1,663	193.99	2,560	2,910
193.48	2,243	1,685	194.00	2,566	2,935
193.49	2,249	1,708	194.01	2,573	2,961
193.50	2,255	1,730	194.02	2,580	2,987
193.51	2,261	1,753	194.03	2,586	3,013
193.52	2,267	1,775	194.04	2,593	3,039
193.53	2,274	1,798	194.05	2,600	3,065
193.54	2,280	1,821	194.06	2,607	3,091
193.55	2,286	1,844	194.07	2,614	3,117
193.56	2,292	1,867	194.08	2,620	3,143
193.57	2,299	1,890	194.09	2,627	3,169
193.58	2,305	1,913	194.10	2,634	3,195
193.59	2,311	1,936	194.11	2,641	3,222
193.60	2,317	1,959	194.12	2,647	3,248
193.61	2,323	1,982	194.13	2,654	3,275
193.62	2,330	2,005	194.14	2,661	3,301
193.63	2,336	2,029	194.15	2,668	3,328
193.64	2,342	2,052	194.16	2,675	3,355
193.65	2,348	2,075	194.17	2,681	3,381
193.66	2,355	2,099	194.18	2,688	3,408
193.67	2,361	2,122	194.19	2,695	3,435
193.68	2,367	2,146	194.20	2,702	3,462
193.69	2,373	2,170	194.21	2,709	3,489
193.70	2,379	2,194	194.22	2,715	3,516
193.71	2,386	2,217	194.23	2,722	3,544
193.72	2,392	2,241	194.24	2,729	3,571
193.73	2,398	2,265	194.25	2,736	3,598
193.74	2,404	2,289	194.26	2,743	3,626
193.75	2,411	2,313	194.27	2,749	3,653
193.76	2,417	2,337	194.28	2,756	3,680
193.77	2,423	2,362	194.29	2,763	3,708
193.78	2,429	2,386	194.30	2,770	3,736
193.79	2,435	2,410	194.31	2,776	3,763
193.80	2,442	2,435	194.32	2,783	3,791
193.81	2,448	2,459	194.33	2,790	3,819
193.82	2,454	2,484	194.34	2,797	3,847
193.83	2,460	2,508	194.35	2,804	3,875
193.84	2,466	2,533	194.36	2,810	3,903
193.85	2,473	2,557	194.37	2,817	3,931

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.38	2,824	3,960
194.39	2,831	3,988
194.40	2,838	4,016
194.41	2,844	4,045
194.42	2,851	4,073
194.43	2,858	4,102
194.44	2,865	4,130
194.45	2,872	4,159
194.46	2,878	4,188
194.47	2,885	4,216
194.48	2,892	4,245
194.49	2,899	4,274
194.50	2,906	4,303
194.51	2,912	4,332
194.52	2,919	4,362
194.53	2,926	4,391
194.54	2,933	4,420
194.55	2,939	4,449
194.56	2,946	4,479
194.57	2,953	4,508
194.58	2,960	4,538
194.59	2,967	4,568
194.60	2,973	4,597
194.61	2,980	4,627
194.62	2,987	4,657
194.63	2,994	4,687
194.64	3,001	4,717
194.65	3,007	4,747
194.66	3,014	4,777
194.67	3,021	4,807
194.68	3,028	4,837
194.69	3,035	4,868
194.70	3,041	4,898
194.71	3,048	4,928
194.72	3,055	4,959
194.73	3,062	4,989
194.74	3,068	5,020
194.75	3,075	5,051
194.76	3,082	5,082
194.77	3,089	5,113
194.78	3,096	5,143
194.79	3,102	5,174
194.80	3,109	5,205
194.81	3,116	5,237
194.82	3,123	5,268
194.83	3,130	5,299
194.84	3,136	5,330
194.85	3,143	5,362
194.86	3,150	5,393
194.87	3,157	5,425
194.88	3,164	5,456
194.89	3,170	5,488
194.90	3,177	5,520
194.91	3,184	5,552
194.92	3,191	5,583
194.93	3,197	5,615
194.94	3,204	5,647
194.95	3,211	5,679
194.96	3,218	5,712
194.97	3,225	5,744
194.98	3,231	5,776
194.99	3,238	5,808
195.00	3,245	5,841
195.01	3,252	5,873
195.02	3,260	5,906
195.03	3,267	5,939
195.04	3,274	5,971
195.05	3,282	6,004
195.06	3,289	6,037
195.07	3,296	6,070
195.08	3,304	6,103
195.09	3,311	6,136
195.10	3,319	6,169
195.11	3,326	6,202
195.12	3,333	6,236
195.13	3,341	6,269
195.14	3,348	6,302
195.15	3,355	6,336
195.16	3,363	6,370
195.17	3,370	6,403
195.18	3,377	6,437
195.19	3,385	6,471
195.20	3,392	6,505
195.21	3,399	6,539
195.22	3,407	6,573
195.23	3,414	6,607
195.24	3,421	6,641
195.25	3,429	6,675
195.26	3,436	6,709
195.27	3,443	6,744
195.28	3,451	6,778
195.29	3,458	6,813
195.30	3,466	6,847
195.31	3,473	6,882
195.32	3,480	6,917
195.33	3,488	6,952
195.34	3,495	6,987
195.35	3,502	7,022
195.36	3,510	7,057
195.37	3,517	7,092
195.38	3,524	7,127
195.39	3,532	7,162
195.40	3,539	7,198
195.41	3,546	7,233

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.42	3,554	7,269
195.43	3,561	7,304
195.44	3,568	7,340
195.45	3,576	7,376
195.46	3,583	7,411
195.47	3,590	7,447
195.48	3,598	7,483
195.49	3,605	7,519
195.50	3,613	7,555
195.51	3,620	7,591
195.52	3,627	7,628
195.53	3,635	7,664
195.54	3,642	7,700
195.55	3,649	7,737
195.56	3,657	7,773
195.57	3,664	7,810
195.58	3,671	7,847
195.59	3,679	7,883
195.60	3,686	7,920
195.61	3,693	7,957
195.62	3,701	7,994
195.63	3,708	8,031
195.64	3,715	8,068
195.65	3,723	8,105
195.66	3,730	8,143
195.67	3,737	8,180
195.68	3,745	8,217
195.69	3,752	8,255
195.70	3,760	8,292
195.71	3,767	8,330
195.72	3,774	8,368
195.73	3,782	8,406
195.74	3,789	8,443
195.75	3,796	8,481
195.76	3,804	8,519
195.77	3,811	8,557
195.78	3,818	8,596
195.79	3,826	8,634
195.80	3,833	8,672
195.81	3,840	8,710
195.82	3,848	8,749
195.83	3,855	8,787
195.84	3,862	8,826
195.85	3,870	8,865
195.86	3,877	8,903
195.87	3,884	8,942
195.88	3,892	8,981
195.89	3,899	9,020
195.90	3,907	9,059
195.91	3,914	9,098
195.92	3,921	9,137
195.93	3,929	9,177
195.94	3,936	9,216
195.95	3,943	9,255
195.96	3,951	9,295
195.97	3,958	9,334
195.98	3,965	9,374
195.99	3,973	9,414
196.00	**3,980**	**9,453**

Summary for Pond B-32: Basin #32

Inflow Area = 1.346 ac, 28.68% Impervious, Inflow Depth = 3.79" for Future 10 yr event
Inflow = 5.31 cfs @ 12.17 hrs, Volume= 0.425 af
Outflow = 4.17 cfs @ 12.25 hrs, Volume= 0.386 af, Atten= 21%, Lag= 4.8 min
Primary = 4.17 cfs @ 12.25 hrs, Volume= 0.386 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 196.16' @ 12.25 hrs Surf.Area= 3,694 sf Storage= 3,781 cf

Plug-Flow detention time= 95.0 min calculated for 0.386 af (91% of inflow)
Center-of-Mass det. time= 47.2 min (847.2 - 800.0)

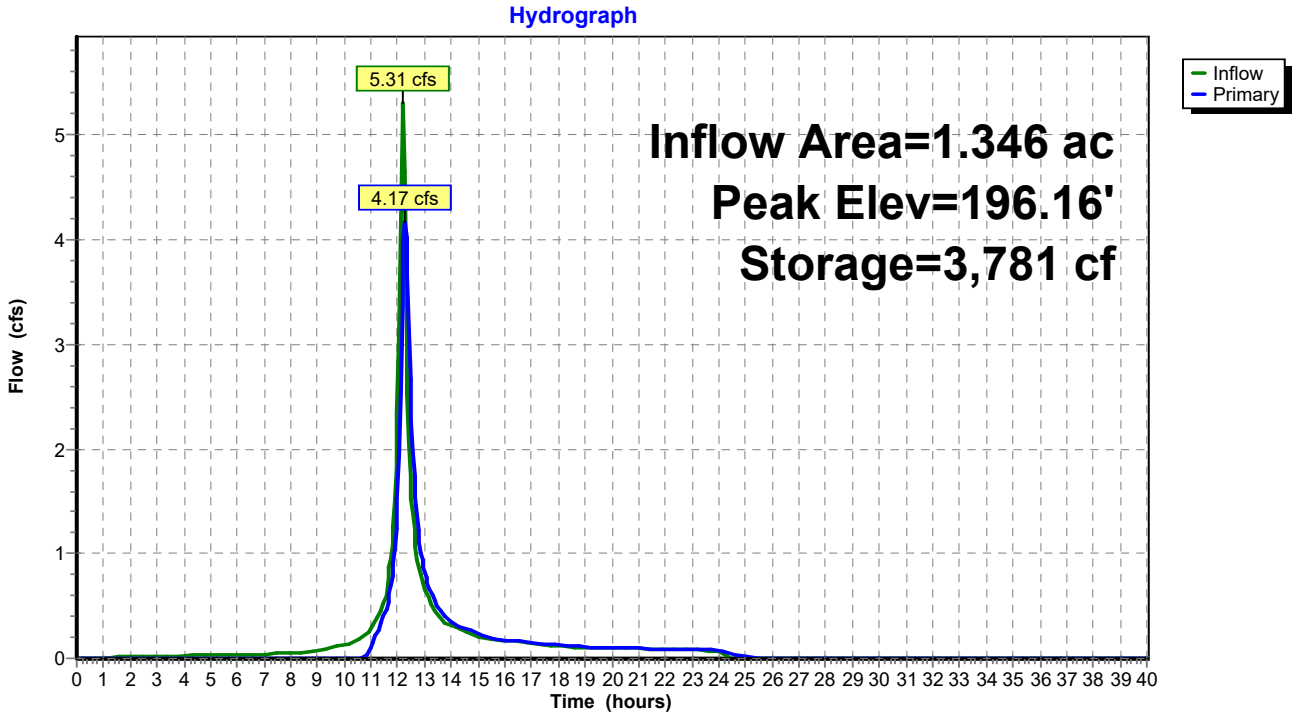
Volume	Invert	Avail.Storage	Storage Description
#1	195.00'	11,936 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
195.00	2,830	0	0
196.00	3,569	3,200	3,200
197.00	4,349	3,959	7,159
198.00	5,206	4,778	11,936

Device	Routing	Invert	Outlet Devices
#1	Primary	195.00'	**24.0" Round Culvert** L= 43.0' Ke= 0.500 Inlet / Outlet Invert= 195.00' / 193.94' S= 0.0247 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	195.56'	**36.0" W x 6.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	197.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=4.16 cfs @ 12.25 hrs HW=196.16' (Free Discharge)
- **1=Culvert** (Passes 4.16 cfs of 6.91 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 4.16 cfs @ 2.77 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-32: Basin #32



Stage-Discharge for Pond B-32: Basin #32

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.00	0.00	195.52	0.00	196.04	3.20	196.56	6.23
195.01	0.00	195.53	0.00	196.05	3.30	196.57	6.27
195.02	0.00	195.54	0.00	196.06	3.40	196.58	6.31
195.03	0.00	195.55	0.00	196.07	3.50	196.59	6.35
195.04	0.00	195.56	0.00	196.08	3.58	196.60	6.39
195.05	0.00	195.57	0.01	196.09	3.67	196.61	6.43
195.06	0.00	195.58	0.03	196.10	3.74	196.62	6.47
195.07	0.00	195.59	0.05	196.11	3.82	196.63	6.51
195.08	0.00	195.60	0.08	196.12	3.89	196.64	6.55
195.09	0.00	195.61	0.11	196.13	3.97	196.65	6.59
195.10	0.00	195.62	0.14	196.14	4.04	196.66	6.63
195.11	0.00	195.63	0.18	196.15	4.10	196.67	6.67
195.12	0.00	195.64	0.22	196.16	4.17	196.68	6.71
195.13	0.00	195.65	0.26	196.17	4.24	196.69	6.75
195.14	0.00	195.66	0.30	196.18	4.30	196.70	6.79
195.15	0.00	195.67	0.35	196.19	4.36	196.71	6.83
195.16	0.00	195.68	0.40	196.20	4.43	196.72	6.87
195.17	0.00	195.69	0.45	196.21	4.49	196.73	6.91
195.18	0.00	195.70	0.50	196.22	4.55	196.74	6.94
195.19	0.00	195.71	0.56	196.23	4.61	196.75	6.98
195.20	0.00	195.72	0.62	196.24	4.66	196.76	7.02
195.21	0.00	195.73	0.67	196.25	4.72	196.77	7.06
195.22	0.00	195.74	0.74	196.26	4.78	196.78	7.09
195.23	0.00	195.75	0.80	196.27	4.83	196.79	7.13
195.24	0.00	195.76	0.86	196.28	4.89	196.80	7.17
195.25	0.00	195.77	0.93	196.29	4.94	196.81	7.20
195.26	0.00	195.78	0.99	196.30	5.00	196.82	7.24
195.27	0.00	195.79	1.06	196.31	5.05	196.83	7.28
195.28	0.00	195.80	1.13	196.32	5.10	196.84	7.31
195.29	0.00	195.81	1.20	196.33	5.16	196.85	7.35
195.30	0.00	195.82	1.28	196.34	5.21	196.86	7.38
195.31	0.00	195.83	1.35	196.35	5.26	196.87	7.42
195.32	0.00	195.84	1.43	196.36	5.31	196.88	7.45
195.33	0.00	195.85	1.50	196.37	5.36	196.89	7.49
195.34	0.00	195.86	1.58	196.38	5.41	196.90	7.52
195.35	0.00	195.87	1.66	196.39	5.46	196.91	7.56
195.36	0.00	195.88	1.74	196.40	5.50	196.92	7.59
195.37	0.00	195.89	1.83	196.41	5.55	196.93	7.63
195.38	0.00	195.90	1.91	196.42	5.60	196.94	7.66
195.39	0.00	195.91	1.99	196.43	5.65	196.95	7.70
195.40	0.00	195.92	2.08	196.44	5.69	196.96	7.73
195.41	0.00	195.93	2.17	196.45	5.74	196.97	7.76
195.42	0.00	195.94	2.26	196.46	5.79	196.98	7.80
195.43	0.00	195.95	2.35	196.47	5.83	196.99	7.83
195.44	0.00	195.96	2.44	196.48	5.88	197.00	7.86
195.45	0.00	195.97	2.53	196.49	5.92	197.01	7.91
195.46	0.00	195.98	2.62	196.50	5.97	197.02	7.97
195.47	0.00	195.99	2.72	196.51	6.01	197.03	8.03
195.48	0.00	196.00	2.81	196.52	6.05	197.04	8.10
195.49	0.00	196.01	2.91	196.53	6.10	197.05	8.17
195.50	0.00	196.02	3.00	196.54	6.14	197.06	8.25
195.51	0.00	196.03	3.10	196.55	6.18	197.07	8.34

Stage-Discharge for Pond B-32: Basin #32 (continued)

Elevation (feet)	Primary (cfs)
197.08	8.42
197.09	8.51
197.10	8.60
197.11	8.70
197.12	8.79
197.13	8.89
197.14	9.00
197.15	9.10
197.16	9.21
197.17	9.32
197.18	9.43
197.19	9.55
197.20	9.66
197.21	9.78
197.22	9.90
197.23	10.02
197.24	10.15
197.25	10.27
197.26	10.40
197.27	10.53
197.28	10.66
197.29	10.79
197.30	10.92
197.31	11.06
197.32	11.19
197.33	11.33
197.34	11.47
197.35	11.61
197.36	11.76
197.37	11.90
197.38	12.05
197.39	12.19
197.40	12.34
197.41	12.49
197.42	12.64
197.43	12.79
197.44	12.95
197.45	13.10
197.46	13.26
197.47	13.41
197.48	13.57
197.49	13.73
197.50	13.89
197.51	14.05
197.52	14.21
197.53	14.38
197.54	14.54
197.55	14.71
197.56	14.87
197.57	15.04
197.58	15.21
197.59	15.38
197.60	15.55
197.61	15.72
197.62	15.90
197.63	16.07
197.64	16.25
197.65	16.42
197.66	16.60
197.67	16.78
197.68	16.95
197.69	17.13
197.70	17.31
197.71	17.50
197.72	17.68
197.73	17.86
197.74	18.05
197.75	18.23
197.76	18.42
197.77	18.60
197.78	18.79
197.79	18.98
197.80	19.17
197.81	19.36
197.82	19.55
197.83	19.74
197.84	19.93
197.85	20.12
197.86	20.32
197.87	20.51
197.88	20.71
197.89	20.80
197.90	20.85
197.91	20.91
197.92	20.96
197.93	21.01
197.94	21.07
197.95	21.12
197.96	21.29
197.97	21.56
197.98	21.89
197.99	22.28
198.00	**22.70**

Stage-Area-Storage for Pond B-32: Basin #32

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.00	2,830	0	195.52	3,214	1,572
195.01	2,837	28	195.53	3,222	1,604
195.02	2,845	57	195.54	3,229	1,636
195.03	2,852	85	195.55	3,236	1,668
195.04	2,860	114	195.56	3,244	1,701
195.05	2,867	142	195.57	3,251	1,733
195.06	2,874	171	195.58	3,259	1,766
195.07	2,882	200	195.59	3,266	1,798
195.08	2,889	229	195.60	3,273	1,831
195.09	2,897	258	195.61	3,281	1,864
195.10	2,904	287	195.62	3,288	1,897
195.11	2,911	316	195.63	3,296	1,930
195.12	2,919	345	195.64	3,303	1,963
195.13	2,926	374	195.65	3,310	1,996
195.14	2,933	403	195.66	3,318	2,029
195.15	2,941	433	195.67	3,325	2,062
195.16	2,948	462	195.68	3,333	2,095
195.17	2,956	492	195.69	3,340	2,129
195.18	2,963	521	195.70	3,347	2,162
195.19	2,970	551	195.71	3,355	2,196
195.20	2,978	581	195.72	3,362	2,229
195.21	2,985	611	195.73	3,369	2,263
195.22	2,993	640	195.74	3,377	2,297
195.23	3,000	670	195.75	3,384	2,330
195.24	3,007	700	195.76	3,392	2,364
195.25	3,015	731	195.77	3,399	2,398
195.26	3,022	761	195.78	3,406	2,432
195.27	3,030	791	195.79	3,414	2,466
195.28	3,037	821	195.80	3,421	2,500
195.29	3,044	852	195.81	3,429	2,535
195.30	3,052	882	195.82	3,436	2,569
195.31	3,059	913	195.83	3,443	2,603
195.32	3,066	943	195.84	3,451	2,638
195.33	3,074	974	195.85	3,458	2,672
195.34	3,081	1,005	195.86	3,466	2,707
195.35	3,089	1,036	195.87	3,473	2,742
195.36	3,096	1,067	195.88	3,480	2,777
195.37	3,103	1,098	195.89	3,488	2,811
195.38	3,111	1,129	195.90	3,495	2,846
195.39	3,118	1,160	195.91	3,502	2,881
195.40	3,126	1,191	195.92	3,510	2,916
195.41	3,133	1,222	195.93	3,517	2,951
195.42	3,140	1,254	195.94	3,525	2,987
195.43	3,148	1,285	195.95	3,532	3,022
195.44	3,155	1,317	195.96	3,539	3,057
195.45	3,163	1,348	195.97	3,547	3,093
195.46	3,170	1,380	195.98	3,554	3,128
195.47	3,177	1,412	195.99	3,562	3,164
195.48	3,185	1,444	196.00	3,569	3,200
195.49	3,192	1,475	196.01	3,577	3,235
195.50	3,200	1,507	196.02	3,585	3,271
195.51	3,207	1,539	196.03	3,592	3,307

Stage-Area-Storage for Pond B-32: Basin #32 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.04	3,600	3,343	196.56	4,006	5,320
196.05	3,608	3,379	196.57	4,014	5,361
196.06	3,616	3,415	196.58	4,021	5,401
196.07	3,624	3,451	196.59	4,029	5,441
196.08	3,631	3,488	196.60	4,037	5,481
196.09	3,639	3,524	196.61	4,045	5,522
196.10	3,647	3,560	196.62	4,053	5,562
196.11	3,655	3,597	196.63	4,060	5,603
196.12	3,663	3,633	196.64	4,068	5,643
196.13	3,670	3,670	196.65	4,076	5,684
196.14	3,678	3,707	196.66	4,084	5,725
196.15	3,686	3,744	196.67	4,092	5,766
196.16	3,694	3,781	196.68	4,099	5,807
196.17	3,702	3,818	196.69	4,107	5,848
196.18	3,709	3,855	196.70	4,115	5,889
196.19	3,717	3,892	196.71	4,123	5,930
196.20	3,725	3,929	196.72	4,131	5,971
196.21	3,733	3,966	196.73	4,138	6,013
196.22	3,741	4,004	196.74	4,146	6,054
196.23	3,748	4,041	196.75	4,154	6,096
196.24	3,756	4,079	196.76	4,162	6,137
196.25	3,764	4,116	196.77	4,170	6,179
196.26	3,772	4,154	196.78	4,177	6,221
196.27	3,780	4,192	196.79	4,185	6,262
196.28	3,787	4,229	196.80	4,193	6,304
196.29	3,795	4,267	196.81	4,201	6,346
196.30	3,803	4,305	196.82	4,209	6,388
196.31	3,811	4,343	196.83	4,216	6,430
196.32	3,819	4,382	196.84	4,224	6,473
196.33	3,826	4,420	196.85	4,232	6,515
196.34	3,834	4,458	196.86	4,240	6,557
196.35	3,842	4,496	196.87	4,248	6,600
196.36	3,850	4,535	196.88	4,255	6,642
196.37	3,858	4,573	196.89	4,263	6,685
196.38	3,865	4,612	196.90	4,271	6,728
196.39	3,873	4,651	196.91	4,279	6,770
196.40	3,881	4,690	196.92	4,287	6,813
196.41	3,889	4,728	196.93	4,294	6,856
196.42	3,897	4,767	196.94	4,302	6,899
196.43	3,904	4,806	196.95	4,310	6,942
196.44	3,912	4,845	196.96	4,318	6,985
196.45	3,920	4,885	196.97	4,326	7,028
196.46	3,928	4,924	196.98	4,333	7,072
196.47	3,936	4,963	196.99	4,341	7,115
196.48	3,943	5,002	197.00	4,349	7,159
196.49	3,951	5,042	197.01	4,358	7,202
196.50	3,959	5,082	197.02	4,366	7,246
196.51	3,967	5,121	197.03	4,375	7,289
196.52	3,975	5,161	197.04	4,383	7,333
196.53	3,982	5,201	197.05	4,392	7,377
196.54	3,990	5,240	197.06	4,400	7,421
196.55	3,998	5,280	197.07	4,409	7,465

Stage-Area-Storage for Pond B-32: Basin #32 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.08	4,418	7,509
197.09	4,426	7,553
197.10	4,435	7,598
197.11	4,443	7,642
197.12	4,452	7,687
197.13	4,460	7,731
197.14	4,469	7,776
197.15	4,478	7,820
197.16	4,486	7,865
197.17	4,495	7,910
197.18	4,503	7,955
197.19	4,512	8,000
197.20	4,520	8,045
197.21	4,529	8,091
197.22	4,538	8,136
197.23	4,546	8,181
197.24	4,555	8,227
197.25	4,563	8,273
197.26	4,572	8,318
197.27	4,580	8,364
197.28	4,589	8,410
197.29	4,598	8,456
197.30	4,606	8,502
197.31	4,615	8,548
197.32	4,623	8,594
197.33	4,632	8,640
197.34	4,640	8,687
197.35	4,649	8,733
197.36	4,658	8,780
197.37	4,666	8,826
197.38	4,675	8,873
197.39	4,683	8,920
197.40	4,692	8,967
197.41	4,700	9,014
197.42	4,709	9,061
197.43	4,718	9,108
197.44	4,726	9,155
197.45	4,735	9,202
197.46	4,743	9,250
197.47	4,752	9,297
197.48	4,760	9,345
197.49	4,769	9,392
197.50	4,778	9,440
197.51	4,786	9,488
197.52	4,795	9,536
197.53	4,803	9,584
197.54	4,812	9,632
197.55	4,820	9,680
197.56	4,829	9,728
197.57	4,837	9,777
197.58	4,846	9,825
197.59	4,855	9,874
197.60	4,863	9,922
197.61	4,872	9,971
197.62	4,880	10,020
197.63	4,889	10,068
197.64	4,897	10,117
197.65	4,906	10,166
197.66	4,915	10,215
197.67	4,923	10,265
197.68	4,932	10,314
197.69	4,940	10,363
197.70	4,949	10,413
197.71	4,957	10,462
197.72	4,966	10,512
197.73	4,975	10,562
197.74	4,983	10,611
197.75	4,992	10,661
197.76	5,000	10,711
197.77	5,009	10,761
197.78	5,017	10,811
197.79	5,026	10,862
197.80	5,035	10,912
197.81	5,043	10,962
197.82	5,052	11,013
197.83	5,060	11,063
197.84	5,069	11,114
197.85	5,077	11,165
197.86	5,086	11,216
197.87	5,095	11,266
197.88	5,103	11,317
197.89	5,112	11,369
197.90	5,120	11,420
197.91	5,129	11,471
197.92	5,137	11,522
197.93	5,146	11,574
197.94	5,155	11,625
197.95	5,163	11,677
197.96	5,172	11,728
197.97	5,180	11,780
197.98	5,189	11,832
197.99	5,197	11,884
198.00	**5,206**	**11,936**

Summary for Pond B-33: Basin #33

Inflow Area = 1.761 ac, 50.99% Impervious, Inflow Depth = 4.36" for Future 10 yr event
Inflow = 7.71 cfs @ 12.17 hrs, Volume= 0.640 af
Outflow = 5.68 cfs @ 12.27 hrs, Volume= 0.553 af, Atten= 26%, Lag= 5.7 min
Primary = 5.68 cfs @ 12.27 hrs, Volume= 0.553 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 186.82' @ 12.27 hrs Surf.Area= 4,848 sf Storage= 11,103 cf

Plug-Flow detention time= 298.3 min calculated for 0.553 af (86% of inflow)
Center-of-Mass det. time= 234.9 min (1,014.8 - 779.9)

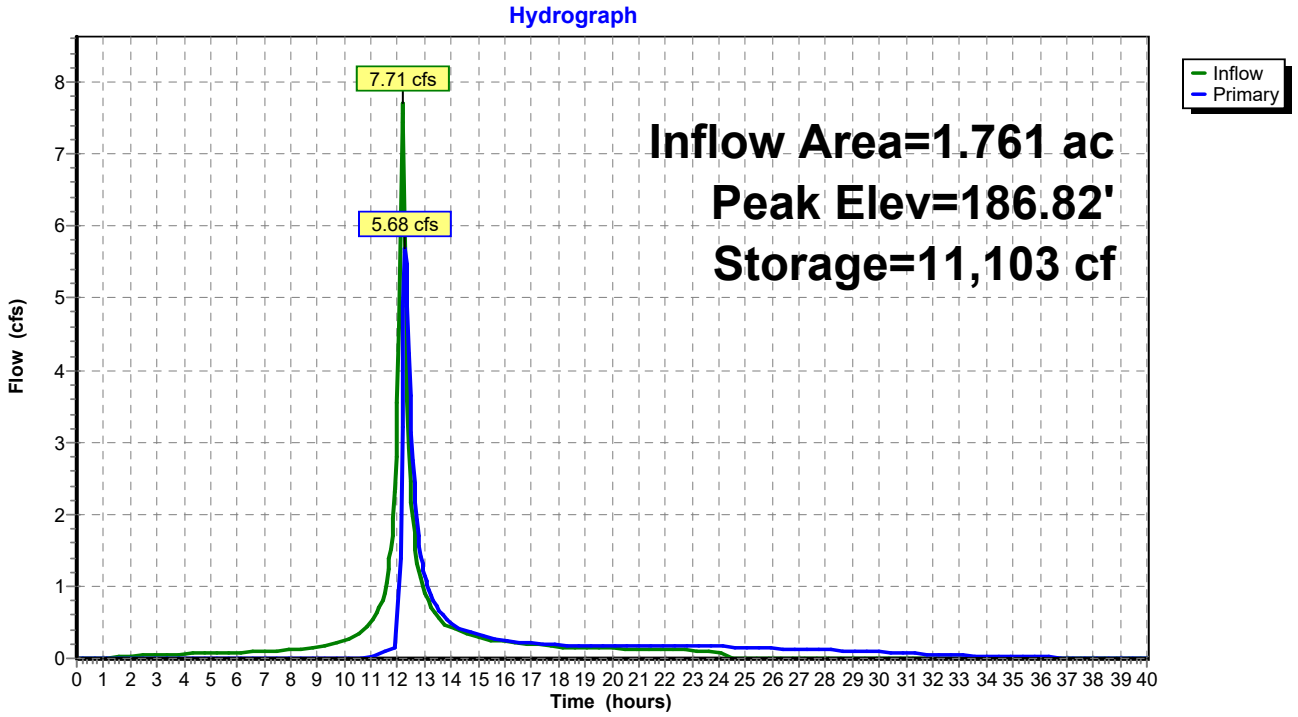
Volume	Invert	Avail.Storage	Storage Description
#1	183.30'	17,481 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
183.30	0	0	0
184.00	2,481	868	868
185.00	3,268	2,875	3,743
186.00	4,111	3,690	7,432
187.00	5,010	4,561	11,993
188.00	5,966	5,488	17,481

Device	Routing	Invert	Outlet Devices
#1	Primary	184.00'	**18.0" Round Culvert** L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 184.00' / 182.00' S= 0.0192 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	184.96'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	186.25'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	187.75'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=5.58 cfs @ 12.27 hrs HW=186.81' (Free Discharge)
- **1=Culvert** (Passes 5.58 cfs of 12.22 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.22 cfs @ 6.37 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 5.36 cfs @ 2.45 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-33: Basin #33



Stage-Discharge for Pond B-33: Basin #33

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.30	0.00	183.82	0.00	184.34	0.00	184.86	0.00
183.31	0.00	183.83	0.00	184.35	0.00	184.87	0.00
183.32	0.00	183.84	0.00	184.36	0.00	184.88	0.00
183.33	0.00	183.85	0.00	184.37	0.00	184.89	0.00
183.34	0.00	183.86	0.00	184.38	0.00	184.90	0.00
183.35	0.00	183.87	0.00	184.39	0.00	184.91	0.00
183.36	0.00	183.88	0.00	184.40	0.00	184.92	0.00
183.37	0.00	183.89	0.00	184.41	0.00	184.93	0.00
183.38	0.00	183.90	0.00	184.42	0.00	184.94	0.00
183.39	0.00	183.91	0.00	184.43	0.00	184.95	0.00
183.40	0.00	183.92	0.00	184.44	0.00	184.96	0.00
183.41	0.00	183.93	0.00	184.45	0.00	184.97	0.00
183.42	0.00	183.94	0.00	184.46	0.00	184.98	0.00
183.43	0.00	183.95	0.00	184.47	0.00	184.99	0.00
183.44	0.00	183.96	0.00	184.48	0.00	185.00	0.00
183.45	0.00	183.97	0.00	184.49	0.00	185.01	0.00
183.46	0.00	183.98	0.00	184.50	0.00	185.02	0.01
183.47	0.00	183.99	0.00	184.51	0.00	185.03	0.01
183.48	0.00	184.00	0.00	184.52	0.00	185.04	0.01
183.49	0.00	184.01	0.00	184.53	0.00	185.05	0.01
183.50	0.00	184.02	0.00	184.54	0.00	185.06	0.02
183.51	0.00	184.03	0.00	184.55	0.00	185.07	0.02
183.52	0.00	184.04	0.00	184.56	0.00	185.08	0.02
183.53	0.00	184.05	0.00	184.57	0.00	185.09	0.03
183.54	0.00	184.06	0.00	184.58	0.00	185.10	0.03
183.55	0.00	184.07	0.00	184.59	0.00	185.11	0.03
183.56	0.00	184.08	0.00	184.60	0.00	185.12	0.04
183.57	0.00	184.09	0.00	184.61	0.00	185.13	0.04
183.58	0.00	184.10	0.00	184.62	0.00	185.14	0.05
183.59	0.00	184.11	0.00	184.63	0.00	185.15	0.05
183.60	0.00	184.12	0.00	184.64	0.00	185.16	0.05
183.61	0.00	184.13	0.00	184.65	0.00	185.17	0.05
183.62	0.00	184.14	0.00	184.66	0.00	185.18	0.06
183.63	0.00	184.15	0.00	184.67	0.00	185.19	0.06
183.64	0.00	184.16	0.00	184.68	0.00	185.20	0.06
183.65	0.00	184.17	0.00	184.69	0.00	185.21	0.06
183.66	0.00	184.18	0.00	184.70	0.00	185.22	0.06
183.67	0.00	184.19	0.00	184.71	0.00	185.23	0.07
183.68	0.00	184.20	0.00	184.72	0.00	185.24	0.07
183.69	0.00	184.21	0.00	184.73	0.00	185.25	0.07
183.70	0.00	184.22	0.00	184.74	0.00	185.26	0.07
183.71	0.00	184.23	0.00	184.75	0.00	185.27	0.07
183.72	0.00	184.24	0.00	184.76	0.00	185.28	0.08
183.73	0.00	184.25	0.00	184.77	0.00	185.29	0.08
183.74	0.00	184.26	0.00	184.78	0.00	185.30	0.08
183.75	0.00	184.27	0.00	184.79	0.00	185.31	0.08
183.76	0.00	184.28	0.00	184.80	0.00	185.32	0.08
183.77	0.00	184.29	0.00	184.81	0.00	185.33	0.08
183.78	0.00	184.30	0.00	184.82	0.00	185.34	0.09
183.79	0.00	184.31	0.00	184.83	0.00	185.35	0.09
183.80	0.00	184.32	0.00	184.84	0.00	185.36	0.09
183.81	0.00	184.33	0.00	184.85	0.00	185.37	0.09

Stage-Discharge for Pond B-33: Basin #33 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.38	0.09	185.90	0.15	186.42	1.10	186.94	7.46
185.39	0.09	185.91	0.15	186.43	1.18	186.95	7.62
185.40	0.10	185.92	0.15	186.44	1.27	186.96	7.77
185.41	0.10	185.93	0.15	186.45	1.35	186.97	7.93
185.42	0.10	185.94	0.15	186.46	1.44	186.98	8.09
185.43	0.10	185.95	0.15	186.47	1.53	186.99	8.25
185.44	0.10	185.96	0.16	186.48	1.62	187.00	8.41
185.45	0.10	185.97	0.16	186.49	1.72	187.01	8.57
185.46	0.10	185.98	0.16	186.50	1.81	187.02	8.73
185.47	0.10	185.99	0.16	186.51	1.91	187.03	8.89
185.48	0.11	186.00	0.16	186.52	2.01	187.04	9.05
185.49	0.11	186.01	0.16	186.53	2.11	187.05	9.22
185.50	0.11	186.02	0.16	186.54	2.21	187.06	9.38
185.51	0.11	186.03	0.16	186.55	2.32	187.07	9.55
185.52	0.11	186.04	0.16	186.56	2.42	187.08	9.71
185.53	0.11	186.05	0.16	186.57	2.53	187.09	9.88
185.54	0.11	186.06	0.16	186.58	2.64	187.10	10.05
185.55	0.11	186.07	0.16	186.59	2.75	187.11	10.22
185.56	0.12	186.08	0.17	186.60	2.86	187.12	10.39
185.57	0.12	186.09	0.17	186.61	2.98	187.13	10.56
185.58	0.12	186.10	0.17	186.62	3.09	187.14	10.73
185.59	0.12	186.11	0.17	186.63	3.21	187.15	10.90
185.60	0.12	186.12	0.17	186.64	3.33	187.16	11.08
185.61	0.12	186.13	0.17	186.65	3.45	187.17	11.25
185.62	0.12	186.14	0.17	186.66	3.57	187.18	11.42
185.63	0.12	186.15	0.17	186.67	3.69	187.19	11.60
185.64	0.12	186.16	0.17	186.68	3.82	187.20	11.78
185.65	0.13	186.17	0.17	186.69	3.94	187.21	11.95
185.66	0.13	186.18	0.17	186.70	4.07	187.22	12.13
185.67	0.13	186.19	0.17	186.71	4.20	187.23	12.31
185.68	0.13	186.20	0.17	186.72	4.33	187.24	12.49
185.69	0.13	186.21	0.18	186.73	4.46	187.25	12.67
185.70	0.13	186.22	0.18	186.74	4.59	187.26	12.85
185.71	0.13	186.23	0.18	186.75	4.72	187.27	13.03
185.72	0.13	186.24	0.18	186.76	4.86	187.28	13.21
185.73	0.13	186.25	0.18	186.77	4.99	187.29	13.40
185.74	0.13	186.26	0.19	186.78	5.13	187.30	13.58
185.75	0.14	186.27	0.22	186.79	5.27	187.31	13.61
185.76	0.14	186.28	0.25	186.80	5.40	187.32	13.64
185.77	0.14	186.29	0.29	186.81	5.54	187.33	13.67
185.78	0.14	186.30	0.33	186.82	5.69	187.34	13.69
185.79	0.14	186.31	0.37	186.83	5.83	187.35	13.72
185.80	0.14	186.32	0.43	186.84	5.97	187.36	13.75
185.81	0.14	186.33	0.48	186.85	6.12	187.37	13.77
185.82	0.14	186.34	0.54	186.86	6.26	187.38	13.80
185.83	0.14	186.35	0.60	186.87	6.41	187.39	13.83
185.84	0.14	186.36	0.66	186.88	6.56	187.40	13.85
185.85	0.15	186.37	0.73	186.89	6.70	187.41	13.88
185.86	0.15	186.38	0.80	186.90	6.85	187.42	13.90
185.87	0.15	186.39	0.87	186.91	7.00	187.43	13.93
185.88	0.15	186.40	0.94	186.92	7.16	187.44	13.96
185.89	0.15	186.41	1.02	186.93	7.31	187.45	13.98

Stage-Discharge for Pond B-33: Basin #33 (continued)

Elevation (feet)	Primary (cfs)
187.46	14.01
187.47	14.03
187.48	14.06
187.49	14.08
187.50	14.11
187.51	14.14
187.52	14.16
187.53	14.19
187.54	14.21
187.55	14.24
187.56	14.26
187.57	14.29
187.58	14.31
187.59	14.34
187.60	14.36
187.61	14.39
187.62	14.41
187.63	14.44
187.64	14.46
187.65	14.49
187.66	14.51
187.67	14.54
187.68	14.56
187.69	14.59
187.70	14.61
187.71	14.64
187.72	14.66
187.73	14.69
187.74	14.71
187.75	14.74
187.76	14.88
187.77	15.12
187.78	15.42
187.79	15.77
187.80	16.17
187.81	16.61
187.82	17.08
187.83	17.59
187.84	18.13
187.85	18.70
187.86	19.30
187.87	19.92
187.88	20.57
187.89	21.25
187.90	21.95
187.91	22.67
187.92	23.42
187.93	24.19
187.94	24.98
187.95	25.79
187.96	26.66
187.97	27.55
187.98	28.47
187.99	29.42
188.00	**30.39**

Stage-Area-Storage for Pond B-33: Basin #33

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.30	0	0	183.82	1,843	479
183.31	35	0	183.83	1,878	498
183.32	71	1	183.84	1,914	517
183.33	106	2	183.85	1,949	536
183.34	142	3	183.86	1,985	556
183.35	177	4	183.87	2,020	576
183.36	213	6	183.88	2,056	596
183.37	248	9	183.89	2,091	617
183.38	284	11	183.90	2,127	638
183.39	319	14	183.91	2,162	659
183.40	354	18	183.92	2,197	681
183.41	390	21	183.93	2,233	703
183.42	425	26	183.94	2,268	726
183.43	461	30	183.95	2,304	749
183.44	496	35	183.96	2,339	772
183.45	532	40	183.97	2,375	796
183.46	567	45	183.98	2,410	819
183.47	603	51	183.99	2,446	844
183.48	638	57	184.00	2,481	868
183.49	673	64	184.01	2,489	893
183.50	709	71	184.02	2,497	918
183.51	744	78	184.03	2,505	943
183.52	780	86	184.04	2,512	968
183.53	815	94	184.05	2,520	993
183.54	851	102	184.06	2,528	1,019
183.55	886	111	184.07	2,536	1,044
183.56	922	120	184.08	2,544	1,069
183.57	957	129	184.09	2,552	1,095
183.58	992	139	184.10	2,560	1,120
183.59	1,028	149	184.11	2,568	1,146
183.60	1,063	159	184.12	2,575	1,172
183.61	1,099	170	184.13	2,583	1,198
183.62	1,134	181	184.14	2,591	1,223
183.63	1,170	193	184.15	2,599	1,249
183.64	1,205	205	184.16	2,607	1,275
183.65	1,241	217	184.17	2,615	1,301
183.66	1,276	230	184.18	2,623	1,328
183.67	1,311	243	184.19	2,631	1,354
183.68	1,347	256	184.20	2,638	1,380
183.69	1,382	270	184.21	2,646	1,407
183.70	1,418	284	184.22	2,654	1,433
183.71	1,453	298	184.23	2,662	1,460
183.72	1,489	313	184.24	2,670	1,486
183.73	1,524	328	184.25	2,678	1,513
183.74	1,559	343	184.26	2,686	1,540
183.75	1,595	359	184.27	2,693	1,567
183.76	1,630	375	184.28	2,701	1,594
183.77	1,666	391	184.29	2,709	1,621
183.78	1,701	408	184.30	2,717	1,648
183.79	1,737	425	184.31	2,725	1,675
183.80	1,772	443	184.32	2,733	1,703
183.81	1,808	461	184.33	2,741	1,730

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.34	2,749	1,757
184.35	2,756	1,785
184.36	2,764	1,813
184.37	2,772	1,840
184.38	2,780	1,868
184.39	2,788	1,896
184.40	2,796	1,924
184.41	2,804	1,952
184.42	2,812	1,980
184.43	2,819	2,008
184.44	2,827	2,036
184.45	2,835	2,064
184.46	2,843	2,093
184.47	2,851	2,121
184.48	2,859	2,150
184.49	2,867	2,179
184.50	2,875	2,207
184.51	2,882	2,236
184.52	2,890	2,265
184.53	2,898	2,294
184.54	2,906	2,323
184.55	2,914	2,352
184.56	2,922	2,381
184.57	2,930	2,410
184.58	2,937	2,440
184.59	2,945	2,469
184.60	2,953	2,499
184.61	2,961	2,528
184.62	2,969	2,558
184.63	2,977	2,588
184.64	2,985	2,617
184.65	2,993	2,647
184.66	3,000	2,677
184.67	3,008	2,707
184.68	3,016	2,737
184.69	3,024	2,768
184.70	3,032	2,798
184.71	3,040	2,828
184.72	3,048	2,859
184.73	3,056	2,889
184.74	3,063	2,920
184.75	3,071	2,950
184.76	3,079	2,981
184.77	3,087	3,012
184.78	3,095	3,043
184.79	3,103	3,074
184.80	3,111	3,105
184.81	3,118	3,136
184.82	3,126	3,167
184.83	3,134	3,199
184.84	3,142	3,230
184.85	3,150	3,262
184.86	3,158	3,293
184.87	3,166	3,325
184.88	3,174	3,356
184.89	3,181	3,388
184.90	3,189	3,420
184.91	3,197	3,452
184.92	3,205	3,484
184.93	3,213	3,516
184.94	3,221	3,548
184.95	3,229	3,580
184.96	3,237	3,613
184.97	3,244	3,645
184.98	3,252	3,678
184.99	3,260	3,710
185.00	3,268	3,743
185.01	3,276	3,776
185.02	3,285	3,808
185.03	3,293	3,841
185.04	3,302	3,874
185.05	3,310	3,907
185.06	3,319	3,940
185.07	3,327	3,974
185.08	3,335	4,007
185.09	3,344	4,040
185.10	3,352	4,074
185.11	3,361	4,107
185.12	3,369	4,141
185.13	3,378	4,175
185.14	3,386	4,209
185.15	3,394	4,243
185.16	3,403	4,277
185.17	3,411	4,311
185.18	3,420	4,345
185.19	3,428	4,379
185.20	3,437	4,413
185.21	3,445	4,448
185.22	3,453	4,482
185.23	3,462	4,517
185.24	3,470	4,551
185.25	3,479	4,586
185.26	3,487	4,621
185.27	3,496	4,656
185.28	3,504	4,691
185.29	3,512	4,726
185.30	3,521	4,761
185.31	3,529	4,796
185.32	3,538	4,832
185.33	3,546	4,867
185.34	3,555	4,903
185.35	3,563	4,938
185.36	3,571	4,974
185.37	3,580	5,010

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.38	3,588	5,046	185.90	4,027	7,025
185.39	3,597	5,081	185.91	4,035	7,066
185.40	3,605	5,117	185.92	4,044	7,106
185.41	3,614	5,154	185.93	4,052	7,147
185.42	3,622	5,190	185.94	4,060	7,187
185.43	3,630	5,226	185.95	4,069	7,228
185.44	3,639	5,262	185.96	4,077	7,269
185.45	3,647	5,299	185.97	4,086	7,309
185.46	3,656	5,335	185.98	4,094	7,350
185.47	3,664	5,372	185.99	4,103	7,391
185.48	3,673	5,409	186.00	4,111	7,432
185.49	3,681	5,445	186.01	4,120	7,474
185.50	3,690	5,482	186.02	4,129	7,515
185.51	3,698	5,519	186.03	4,138	7,556
185.52	3,706	5,556	186.04	4,147	7,598
185.53	3,715	5,593	186.05	4,156	7,639
185.54	3,723	5,630	186.06	4,165	7,681
185.55	3,732	5,668	186.07	4,174	7,722
185.56	3,740	5,705	186.08	4,183	7,764
185.57	3,749	5,743	186.09	4,192	7,806
185.58	3,757	5,780	186.10	4,201	7,848
185.59	3,765	5,818	186.11	4,210	7,890
185.60	3,774	5,855	186.12	4,219	7,932
185.61	3,782	5,893	186.13	4,228	7,974
185.62	3,791	5,931	186.14	4,237	8,017
185.63	3,799	5,969	186.15	4,246	8,059
185.64	3,808	6,007	186.16	4,255	8,102
185.65	3,816	6,045	186.17	4,264	8,144
185.66	3,824	6,083	186.18	4,273	8,187
185.67	3,833	6,122	186.19	4,282	8,230
185.68	3,841	6,160	186.20	4,291	8,273
185.69	3,850	6,198	186.21	4,300	8,315
185.70	3,858	6,237	186.22	4,309	8,359
185.71	3,867	6,276	186.23	4,318	8,402
185.72	3,875	6,314	186.24	4,327	8,445
185.73	3,883	6,353	186.25	4,336	8,488
185.74	3,892	6,392	186.26	4,345	8,532
185.75	3,900	6,431	186.27	4,354	8,575
185.76	3,909	6,470	186.28	4,363	8,619
185.77	3,917	6,509	186.29	4,372	8,662
185.78	3,926	6,548	186.30	4,381	8,706
185.79	3,934	6,588	186.31	4,390	8,750
185.80	3,942	6,627	186.32	4,399	8,794
185.81	3,951	6,666	186.33	4,408	8,838
185.82	3,959	6,706	186.34	4,417	8,882
185.83	3,968	6,746	186.35	4,426	8,926
185.84	3,976	6,785	186.36	4,435	8,971
185.85	3,985	6,825	186.37	4,444	9,015
185.86	3,993	6,865	186.38	4,453	9,059
185.87	4,001	6,905	186.39	4,462	9,104
185.88	4,010	6,945	186.40	4,471	9,149
185.89	4,018	6,985	186.41	4,480	9,193

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.42	4,489	9,238	186.94	4,956	11,694
186.43	4,498	9,283	186.95	4,965	11,743
186.44	4,507	9,328	186.96	4,974	11,793
186.45	4,516	9,373	186.97	4,983	11,843
186.46	4,525	9,419	186.98	4,992	11,893
186.47	4,534	9,464	186.99	5,001	11,943
186.48	4,543	9,509	187.00	5,010	11,993
186.49	4,552	9,555	187.01	5,020	12,043
186.50	4,561	9,600	187.02	5,029	12,093
186.51	4,569	9,646	187.03	5,039	12,144
186.52	4,578	9,692	187.04	5,048	12,194
186.53	4,587	9,737	187.05	5,058	12,245
186.54	4,596	9,783	187.06	5,067	12,295
186.55	4,605	9,829	187.07	5,077	12,346
186.56	4,614	9,875	187.08	5,086	12,397
186.57	4,623	9,922	187.09	5,096	12,448
186.58	4,632	9,968	187.10	5,106	12,499
186.59	4,641	10,014	187.11	5,115	12,550
186.60	4,650	10,061	187.12	5,125	12,601
186.61	4,659	10,107	187.13	5,134	12,652
186.62	4,668	10,154	187.14	5,144	12,704
186.63	4,677	10,201	187.15	5,153	12,755
186.64	4,686	10,248	187.16	5,163	12,807
186.65	4,695	10,294	187.17	5,173	12,858
186.66	4,704	10,341	187.18	5,182	12,910
186.67	4,713	10,389	187.19	5,192	12,962
186.68	4,722	10,436	187.20	5,201	13,014
186.69	4,731	10,483	187.21	5,211	13,066
186.70	4,740	10,530	187.22	5,220	13,118
186.71	4,749	10,578	187.23	5,230	13,170
186.72	4,758	10,625	187.24	5,239	13,223
186.73	4,767	10,673	187.25	5,249	13,275
186.74	4,776	10,721	187.26	5,259	13,328
186.75	4,785	10,768	187.27	5,268	13,380
186.76	4,794	10,816	187.28	5,278	13,433
186.77	4,803	10,864	187.29	5,287	13,486
186.78	4,812	10,912	187.30	5,297	13,539
186.79	4,821	10,961	187.31	5,306	13,592
186.80	4,830	11,009	187.32	5,316	13,645
186.81	4,839	11,057	187.33	5,325	13,698
186.82	4,848	11,106	187.34	5,335	13,752
186.83	4,857	11,154	187.35	5,345	13,805
186.84	4,866	11,203	187.36	5,354	13,858
186.85	4,875	11,251	187.37	5,364	13,912
186.86	4,884	11,300	187.38	5,373	13,966
186.87	4,893	11,349	187.39	5,383	14,019
186.88	4,902	11,398	187.40	5,392	14,073
186.89	4,911	11,447	187.41	5,402	14,127
186.90	4,920	11,496	187.42	5,412	14,181
186.91	4,929	11,546	187.43	5,421	14,236
186.92	4,938	11,595	187.44	5,431	14,290
186.93	4,947	11,644	187.45	5,440	14,344

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.46	5,450	14,399
187.47	5,459	14,453
187.48	5,469	14,508
187.49	5,478	14,563
187.50	5,488	14,617
187.51	5,498	14,672
187.52	5,507	14,727
187.53	5,517	14,782
187.54	5,526	14,838
187.55	5,536	14,893
187.56	5,545	14,948
187.57	5,555	15,004
187.58	5,564	15,059
187.59	5,574	15,115
187.60	5,584	15,171
187.61	5,593	15,227
187.62	5,603	15,283
187.63	5,612	15,339
187.64	5,622	15,395
187.65	5,631	15,451
187.66	5,641	15,508
187.67	5,651	15,564
187.68	5,660	15,621
187.69	5,670	15,677
187.70	5,679	15,734
187.71	5,689	15,791
187.72	5,698	15,848
187.73	5,708	15,905
187.74	5,717	15,962
187.75	5,727	16,019
187.76	5,737	16,077
187.77	5,746	16,134
187.78	5,756	16,191
187.79	5,765	16,249
187.80	5,775	16,307
187.81	5,784	16,365
187.82	5,794	16,422
187.83	5,803	16,480
187.84	5,813	16,539
187.85	5,823	16,597
187.86	5,832	16,655
187.87	5,842	16,713
187.88	5,851	16,772
187.89	5,861	16,830
187.90	5,870	16,889
187.91	5,880	16,948
187.92	5,890	17,007
187.93	5,899	17,066
187.94	5,909	17,125
187.95	5,918	17,184
187.96	5,928	17,243
187.97	5,937	17,302
187.98	5,947	17,362
187.99	5,956	17,421
188.00	**5,966**	**17,481**

Summary for Pond B-34: Basin #34

Inflow Area = 1.779 ac, 23.66% Impervious, Inflow Depth = 3.66" for Future 10 yr event
Inflow = 6.84 cfs @ 12.17 hrs, Volume= 0.543 af
Outflow = 3.01 cfs @ 12.37 hrs, Volume= 0.489 af, Atten= 56%, Lag= 12.0 min
Primary = 3.01 cfs @ 12.37 hrs, Volume= 0.489 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 192.69' @ 12.37 hrs Surf.Area= 6,043 sf Storage= 10,350 cf

Plug-Flow detention time= 360.3 min calculated for 0.489 af (90% of inflow)
Center-of-Mass det. time= 309.0 min (1,114.4 - 805.4)

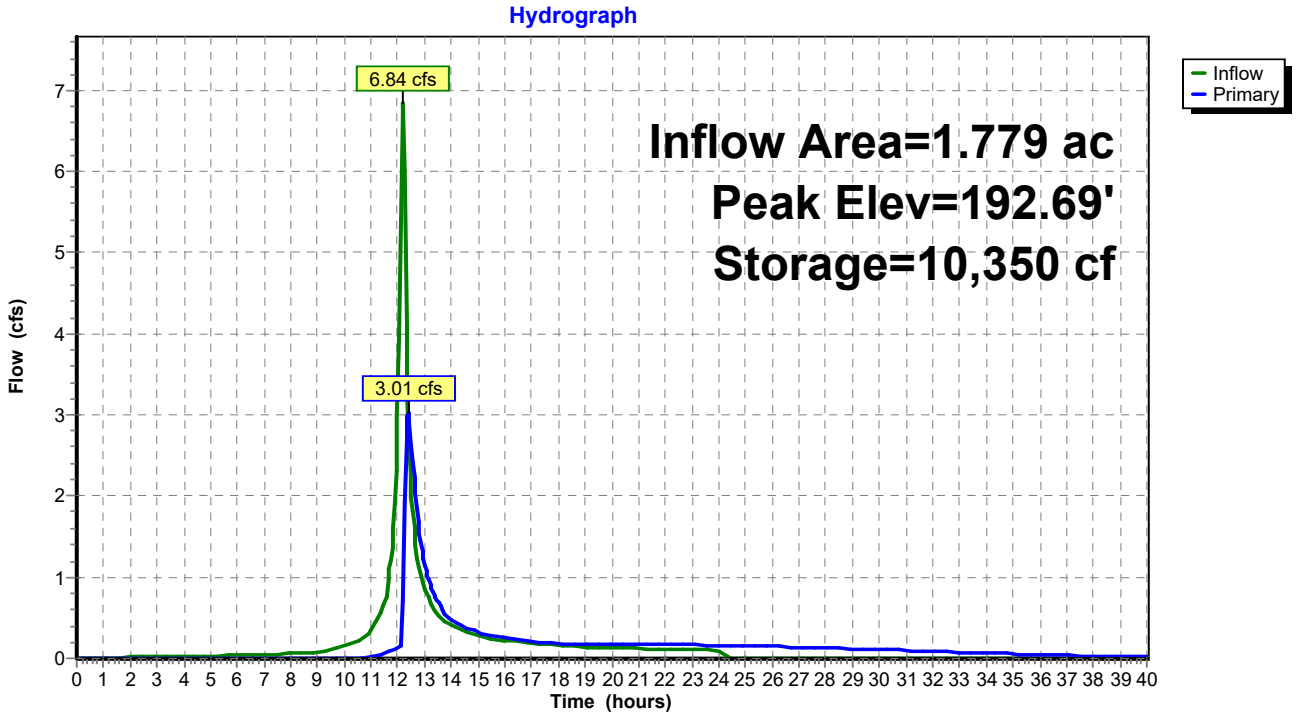
Volume	Invert	Avail.Storage	Storage Description
#1	190.30'	27,449 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.30	0	0	0
191.00	4,390	1,536	1,536
192.00	5,343	4,867	6,403
193.00	6,353	5,848	12,251
194.00	7,419	6,886	19,137
195.00	9,205	8,312	27,449

Device	Routing	Invert	Outlet Devices
#1	Primary	189.65'	**18.0" Round Culvert** L= 100.0' Ke= 0.500 Inlet / Outlet Invert= 189.65' / 189.15' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	191.09'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	192.33'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.25'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.98 cfs @ 12.37 hrs HW=192.69' (Free Discharge)
- **1=Culvert** (Passes 2.98 cfs of 11.10 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.20 cfs @ 5.89 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 2.78 cfs @ 1.96 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-34: Basin #34



Stage-Discharge for Pond B-34: Basin #34

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.30	0.00	190.82	0.00	191.34	0.06	191.86	0.13
190.31	0.00	190.83	0.00	191.35	0.06	191.87	0.13
190.32	0.00	190.84	0.00	191.36	0.07	191.88	0.14
190.33	0.00	190.85	0.00	191.37	0.07	191.89	0.14
190.34	0.00	190.86	0.00	191.38	0.07	191.90	0.14
190.35	0.00	190.87	0.00	191.39	0.07	191.91	0.14
190.36	0.00	190.88	0.00	191.40	0.07	191.92	0.14
190.37	0.00	190.89	0.00	191.41	0.08	191.93	0.14
190.38	0.00	190.90	0.00	191.42	0.08	191.94	0.14
190.39	0.00	190.91	0.00	191.43	0.08	191.95	0.14
190.40	0.00	190.92	0.00	191.44	0.08	191.96	0.14
190.41	0.00	190.93	0.00	191.45	0.08	191.97	0.14
190.42	0.00	190.94	0.00	191.46	0.08	191.98	0.15
190.43	0.00	190.95	0.00	191.47	0.09	191.99	0.15
190.44	0.00	190.96	0.00	191.48	0.09	192.00	0.15
190.45	0.00	190.97	0.00	191.49	0.09	192.01	0.15
190.46	0.00	190.98	0.00	191.50	0.09	192.02	0.15
190.47	0.00	190.99	0.00	191.51	0.09	192.03	0.15
190.48	0.00	191.00	0.00	191.52	0.09	192.04	0.15
190.49	0.00	191.01	0.00	191.53	0.10	192.05	0.15
190.50	0.00	191.02	0.00	191.54	0.10	192.06	0.15
190.51	0.00	191.03	0.00	191.55	0.10	192.07	0.15
190.52	0.00	191.04	0.00	191.56	0.10	192.08	0.15
190.53	0.00	191.05	0.00	191.57	0.10	192.09	0.16
190.54	0.00	191.06	0.00	191.58	0.10	192.10	0.16
190.55	0.00	191.07	0.00	191.59	0.10	192.11	0.16
190.56	0.00	191.08	0.00	191.60	0.10	192.12	0.16
190.57	0.00	191.09	0.00	191.61	0.11	192.13	0.16
190.58	0.00	191.10	0.00	191.62	0.11	192.14	0.16
190.59	0.00	191.11	0.00	191.63	0.11	192.15	0.16
190.60	0.00	191.12	0.00	191.64	0.11	192.16	0.16
190.61	0.00	191.13	0.00	191.65	0.11	192.17	0.16
190.62	0.00	191.14	0.00	191.66	0.11	192.18	0.16
190.63	0.00	191.15	0.01	191.67	0.11	192.19	0.16
190.64	0.00	191.16	0.01	191.68	0.11	192.20	0.16
190.65	0.00	191.17	0.01	191.69	0.12	192.21	0.17
190.66	0.00	191.18	0.01	191.70	0.12	192.22	0.17
190.67	0.00	191.19	0.02	191.71	0.12	192.23	0.17
190.68	0.00	191.20	0.02	191.72	0.12	192.24	0.17
190.69	0.00	191.21	0.02	191.73	0.12	192.25	0.17
190.70	0.00	191.22	0.03	191.74	0.12	192.26	0.17
190.71	0.00	191.23	0.03	191.75	0.12	192.27	0.17
190.72	0.00	191.24	0.03	191.76	0.12	192.28	0.17
190.73	0.00	191.25	0.04	191.77	0.12	192.29	0.17
190.74	0.00	191.26	0.04	191.78	0.13	192.30	0.17
190.75	0.00	191.27	0.05	191.79	0.13	192.31	0.17
190.76	0.00	191.28	0.05	191.80	0.13	192.32	0.17
190.77	0.00	191.29	0.05	191.81	0.13	192.33	0.17
190.78	0.00	191.30	0.05	191.82	0.13	192.34	0.19
190.79	0.00	191.31	0.06	191.83	0.13	192.35	0.21
190.80	0.00	191.32	0.06	191.84	0.13	192.36	0.25
190.81	0.00	191.33	0.06	191.85	0.13	192.37	0.28

Stage-Discharge for Pond B-34: Basin #34 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.38	0.32	192.90	5.68	193.42	12.94	193.94	14.10
192.39	0.37	192.91	5.83	193.43	12.96	193.95	14.12
192.40	0.42	192.92	5.97	193.44	12.98	193.96	14.14
192.41	0.48	192.93	6.11	193.45	13.01	193.97	14.16
192.42	0.53	192.94	6.26	193.46	13.03	193.98	14.18
192.43	0.59	192.95	6.41	193.47	13.05	193.99	14.21
192.44	0.66	192.96	6.55	193.48	13.08	194.00	14.23
192.45	0.72	192.97	6.70	193.49	13.10	194.01	14.25
192.46	0.79	192.98	6.85	193.50	13.12	194.02	14.27
192.47	0.87	192.99	7.00	193.51	13.14	194.03	14.29
192.48	0.94	193.00	7.15	193.52	13.17	194.04	14.31
192.49	1.02	193.01	7.31	193.53	13.19	194.05	14.33
192.50	1.10	193.02	7.46	193.54	13.21	194.06	14.35
192.51	1.18	193.03	7.61	193.55	13.24	194.07	14.37
192.52	1.26	193.04	7.77	193.56	13.26	194.08	14.40
192.53	1.35	193.05	7.93	193.57	13.28	194.09	14.42
192.54	1.44	193.06	8.08	193.58	13.30	194.10	14.44
192.55	1.53	193.07	8.24	193.59	13.33	194.11	14.46
192.56	1.62	193.08	8.40	193.60	13.35	194.12	14.48
192.57	1.71	193.09	8.56	193.61	13.37	194.13	14.50
192.58	1.81	193.10	8.72	193.62	13.40	194.14	14.52
192.59	1.91	193.11	8.89	193.63	13.42	194.15	14.54
192.60	2.00	193.12	9.05	193.64	13.44	194.16	14.56
192.61	2.11	193.13	9.21	193.65	13.46	194.17	14.58
192.62	2.21	193.14	9.38	193.66	13.49	194.18	14.60
192.63	2.31	193.15	9.54	193.67	13.51	194.19	14.62
192.64	2.42	193.16	9.71	193.68	13.53	194.20	14.64
192.65	2.53	193.17	9.88	193.69	13.55	194.21	14.67
192.66	2.64	193.18	10.05	193.70	13.57	194.22	14.69
192.67	2.75	193.19	10.22	193.71	13.60	194.23	14.71
192.68	2.86	193.20	10.38	193.72	13.62	194.24	14.73
192.69	2.98	193.21	10.56	193.73	13.64	194.25	14.75
192.70	3.09	193.22	10.73	193.74	13.66	194.26	14.89
192.71	3.21	193.23	10.90	193.75	13.69	194.27	15.12
192.72	3.33	193.24	11.07	193.76	13.71	194.28	15.42
192.73	3.45	193.25	11.25	193.77	13.73	194.29	15.77
192.74	3.57	193.26	11.42	193.78	13.75	194.30	16.16
192.75	3.69	193.27	11.60	193.79	13.77	194.31	16.59
192.76	3.81	193.28	11.77	193.80	13.80	194.32	17.06
192.77	3.94	193.29	11.95	193.81	13.82	194.33	17.57
192.78	4.07	193.30	12.13	193.82	13.84	194.34	18.10
192.79	4.19	193.31	12.31	193.83	13.86	194.35	18.67
192.80	4.32	193.32	12.49	193.84	13.88	194.36	19.26
192.81	4.45	193.33	12.67	193.85	13.90	194.37	19.88
192.82	4.59	193.34	12.75	193.86	13.93	194.38	20.53
192.83	4.72	193.35	12.77	193.87	13.95	194.39	21.20
192.84	4.85	193.36	12.80	193.88	13.97	194.40	21.90
192.85	4.99	193.37	12.82	193.89	13.99	194.41	22.62
192.86	5.12	193.38	12.84	193.90	14.01	194.42	23.36
192.87	5.26	193.39	12.87	193.91	14.03	194.43	24.12
192.88	5.40	193.40	12.89	193.92	14.06	194.44	24.91
192.89	5.54	193.41	12.91	193.93	14.08	194.45	25.72

Stage-Discharge for Pond B-34: Basin #34 (continued)

Elevation (feet)	Primary (cfs)
194.46	26.58
194.47	27.48
194.48	28.39
194.49	29.34
194.50	30.30
194.51	31.30
194.52	32.32
194.53	33.36
194.54	34.43
194.55	35.52
194.56	36.64
194.57	37.78
194.58	38.94
194.59	40.13
194.60	41.34
194.61	42.58
194.62	43.84
194.63	45.13
194.64	46.44
194.65	47.78
194.66	49.16
194.67	50.57
194.68	52.01
194.69	53.47
194.70	54.96
194.71	56.48
194.72	58.02
194.73	59.59
194.74	61.18
194.75	62.80
194.76	64.45
194.77	66.12
194.78	67.83
194.79	69.55
194.80	71.31
194.81	73.09
194.82	74.89
194.83	76.73
194.84	78.59
194.85	80.48
194.86	82.12
194.87	83.78
194.88	85.46
194.89	87.14
194.90	88.84
194.91	90.56
194.92	92.28
194.93	94.02
194.94	95.77
194.95	97.54
194.96	99.31
194.97	101.10
194.98	102.91
194.99	104.72
195.00	**106.55**

Stage-Area-Storage for Pond B-34: Basin #34

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.30	0	0	190.82	3,261	848
190.31	63	0	190.83	3,324	881
190.32	125	1	190.84	3,387	914
190.33	188	3	190.85	3,449	949
190.34	251	5	190.86	3,512	983
190.35	314	8	190.87	3,575	1,019
190.36	376	11	190.88	3,637	1,055
190.37	439	15	190.89	3,700	1,092
190.38	502	20	190.90	3,763	1,129
190.39	564	25	190.91	3,826	1,167
190.40	627	31	190.92	3,888	1,205
190.41	690	38	190.93	3,951	1,245
190.42	753	45	190.94	4,014	1,284
190.43	815	53	190.95	4,076	1,325
190.44	878	61	190.96	4,139	1,366
190.45	941	71	190.97	4,202	1,408
190.46	1,003	80	190.98	4,265	1,450
190.47	1,066	91	190.99	4,327	1,493
190.48	1,129	102	191.00	4,390	1,536
190.49	1,192	113	191.01	4,400	1,580
190.50	1,254	125	191.02	4,409	1,624
190.51	1,317	138	191.03	4,419	1,669
190.52	1,380	152	191.04	4,428	1,713
190.53	1,442	166	191.05	4,438	1,757
190.54	1,505	181	191.06	4,447	1,802
190.55	1,568	196	191.07	4,457	1,846
190.56	1,631	212	191.08	4,466	1,891
190.57	1,693	229	191.09	4,476	1,935
190.58	1,756	246	191.10	4,485	1,980
190.59	1,819	264	191.11	4,495	2,025
190.60	1,881	282	191.12	4,504	2,070
190.61	1,944	301	191.13	4,514	2,115
190.62	2,007	321	191.14	4,523	2,160
190.63	2,070	341	191.15	4,533	2,206
190.64	2,132	362	191.16	4,542	2,251
190.65	2,195	384	191.17	4,552	2,297
190.66	2,258	406	191.18	4,562	2,342
190.67	2,320	429	191.19	4,571	2,388
190.68	2,383	453	191.20	4,581	2,434
190.69	2,446	477	191.21	4,590	2,479
190.70	2,509	502	191.22	4,600	2,525
190.71	2,571	527	191.23	4,609	2,571
190.72	2,634	553	191.24	4,619	2,618
190.73	2,697	580	191.25	4,628	2,664
190.74	2,759	607	191.26	4,638	2,710
190.75	2,822	635	191.27	4,647	2,757
190.76	2,885	664	191.28	4,657	2,803
190.77	2,948	693	191.29	4,666	2,850
190.78	3,010	722	191.30	4,676	2,896
190.79	3,073	753	191.31	4,685	2,943
190.80	3,136	784	191.32	4,695	2,990
190.81	3,198	816	191.33	4,704	3,037

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.34	4,714	3,084
191.35	4,724	3,131
191.36	4,733	3,179
191.37	4,743	3,226
191.38	4,752	3,274
191.39	4,762	3,321
191.40	4,771	3,369
191.41	4,781	3,416
191.42	4,790	3,464
191.43	4,800	3,512
191.44	4,809	3,560
191.45	4,819	3,608
191.46	4,828	3,657
191.47	4,838	3,705
191.48	4,847	3,753
191.49	4,857	3,802
191.50	4,867	3,851
191.51	4,876	3,899
191.52	4,886	3,948
191.53	4,895	3,997
191.54	4,905	4,046
191.55	4,914	4,095
191.56	4,924	4,144
191.57	4,933	4,194
191.58	4,943	4,243
191.59	4,952	4,292
191.60	4,962	4,342
191.61	4,971	4,392
191.62	4,981	4,441
191.63	4,990	4,491
191.64	5,000	4,541
191.65	5,009	4,591
191.66	5,019	4,641
191.67	5,029	4,692
191.68	5,038	4,742
191.69	5,048	4,792
191.70	5,057	4,843
191.71	5,067	4,894
191.72	5,076	4,944
191.73	5,086	4,995
191.74	5,095	5,046
191.75	5,105	5,097
191.76	5,114	5,148
191.77	5,124	5,199
191.78	5,133	5,251
191.79	5,143	5,302
191.80	5,152	5,353
191.81	5,162	5,405
191.82	5,171	5,457
191.83	5,181	5,508
191.84	5,191	5,560
191.85	5,200	5,612
191.86	5,210	5,664
191.87	5,219	5,716
191.88	5,229	5,769
191.89	5,238	5,821
191.90	5,248	5,873
191.91	5,257	5,926
191.92	5,267	5,979
191.93	5,276	6,031
191.94	5,286	6,084
191.95	5,295	6,137
191.96	5,305	6,190
191.97	5,314	6,243
191.98	5,324	6,296
191.99	5,333	6,350
192.00	5,343	6,403
192.01	5,353	6,456
192.02	5,363	6,510
192.03	5,373	6,564
192.04	5,383	6,618
192.05	5,394	6,671
192.06	5,404	6,725
192.07	5,414	6,779
192.08	5,424	6,834
192.09	5,434	6,888
192.10	5,444	6,942
192.11	5,454	6,997
192.12	5,464	7,051
192.13	5,474	7,106
192.14	5,484	7,161
192.15	5,495	7,216
192.16	5,505	7,271
192.17	5,515	7,326
192.18	5,525	7,381
192.19	5,535	7,436
192.20	5,545	7,492
192.21	5,555	7,547
192.22	5,565	7,603
192.23	5,575	7,659
192.24	5,585	7,714
192.25	5,596	7,770
192.26	5,606	7,826
192.27	5,616	7,882
192.28	5,626	7,939
192.29	5,636	7,995
192.30	5,646	8,051
192.31	5,656	8,108
192.32	5,666	8,164
192.33	5,676	8,221
192.34	5,686	8,278
192.35	5,697	8,335
192.36	5,707	8,392
192.37	5,717	8,449

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.38	5,727	8,506	192.90	6,252	11,621
192.39	5,737	8,564	192.91	6,262	11,683
192.40	5,747	8,621	192.92	6,272	11,746
192.41	5,757	8,679	192.93	6,282	11,809
192.42	5,767	8,736	192.94	6,292	11,872
192.43	5,777	8,794	192.95	6,303	11,935
192.44	5,787	8,852	192.96	6,313	11,998
192.45	5,798	8,910	192.97	6,323	12,061
192.46	5,808	8,968	192.98	6,333	12,124
192.47	5,818	9,026	192.99	6,343	12,188
192.48	5,828	9,084	193.00	6,353	12,251
192.49	5,838	9,142	193.01	6,364	12,315
192.50	5,848	9,201	193.02	6,374	12,378
192.51	5,858	9,259	193.03	6,385	12,442
192.52	5,868	9,318	193.04	6,396	12,506
192.53	5,878	9,377	193.05	6,406	12,570
192.54	5,888	9,435	193.06	6,417	12,634
192.55	5,899	9,494	193.07	6,428	12,698
192.56	5,909	9,553	193.08	6,438	12,763
192.57	5,919	9,613	193.09	6,449	12,827
192.58	5,929	9,672	193.10	6,460	12,892
192.59	5,939	9,731	193.11	6,470	12,956
192.60	5,949	9,791	193.12	6,481	13,021
192.61	5,959	9,850	193.13	6,492	13,086
192.62	5,969	9,910	193.14	6,502	13,151
192.63	5,979	9,970	193.15	6,513	13,216
192.64	5,989	10,029	193.16	6,524	13,281
192.65	6,000	10,089	193.17	6,534	13,346
192.66	6,010	10,149	193.18	6,545	13,412
192.67	6,020	10,210	193.19	6,556	13,477
192.68	6,030	10,270	193.20	6,566	13,543
192.69	6,040	10,330	193.21	6,577	13,609
192.70	6,050	10,391	193.22	6,588	13,674
192.71	6,060	10,451	193.23	6,598	13,740
192.72	6,070	10,512	193.24	6,609	13,806
192.73	6,080	10,573	193.25	6,620	13,873
192.74	6,090	10,633	193.26	6,630	13,939
192.75	6,101	10,694	193.27	6,641	14,005
192.76	6,111	10,755	193.28	6,651	14,072
192.77	6,121	10,817	193.29	6,662	14,138
192.78	6,131	10,878	193.30	6,673	14,205
192.79	6,141	10,939	193.31	6,683	14,272
192.80	6,151	11,001	193.32	6,694	14,339
192.81	6,161	11,062	193.33	6,705	14,406
192.82	6,171	11,124	193.34	6,715	14,473
192.83	6,181	11,186	193.35	6,726	14,540
192.84	6,191	11,247	193.36	6,737	14,607
192.85	6,202	11,309	193.37	6,747	14,675
192.86	6,212	11,371	193.38	6,758	14,742
192.87	6,222	11,434	193.39	6,769	14,810
192.88	6,232	11,496	193.40	6,779	14,877
192.89	6,242	11,558	193.41	6,790	14,945

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.42	6,801	15,013	193.94	7,355	18,694
193.43	6,811	15,081	193.95	7,366	18,767
193.44	6,822	15,150	193.96	7,376	18,841
193.45	6,833	15,218	193.97	7,387	18,915
193.46	6,843	15,286	193.98	7,398	18,989
193.47	6,854	15,355	193.99	7,408	19,063
193.48	6,865	15,423	194.00	7,419	19,137
193.49	6,875	15,492	194.01	7,437	19,211
193.50	6,886	15,561	194.02	7,455	19,286
193.51	6,897	15,630	194.03	7,473	19,360
193.52	6,907	15,699	194.04	7,490	19,435
193.53	6,918	15,768	194.05	7,508	19,510
193.54	6,929	15,837	194.06	7,526	19,585
193.55	6,939	15,906	194.07	7,544	19,661
193.56	6,950	15,976	194.08	7,562	19,736
193.57	6,961	16,045	194.09	7,580	19,812
193.58	6,971	16,115	194.10	7,598	19,888
193.59	6,982	16,185	194.11	7,615	19,964
193.60	6,993	16,255	194.12	7,633	20,040
193.61	7,003	16,325	194.13	7,651	20,117
193.62	7,014	16,395	194.14	7,669	20,193
193.63	7,025	16,465	194.15	7,687	20,270
193.64	7,035	16,535	194.16	7,705	20,347
193.65	7,046	16,606	194.17	7,723	20,424
193.66	7,057	16,676	194.18	7,740	20,501
193.67	7,067	16,747	194.19	7,758	20,579
193.68	7,078	16,817	194.20	7,776	20,657
193.69	7,089	16,888	194.21	7,794	20,734
193.70	7,099	16,959	194.22	7,812	20,812
193.71	7,110	17,030	194.23	7,830	20,891
193.72	7,121	17,101	194.24	7,848	20,969
193.73	7,131	17,173	194.25	7,866	21,048
193.74	7,142	17,244	194.26	7,883	21,126
193.75	7,153	17,316	194.27	7,901	21,205
193.76	7,163	17,387	194.28	7,919	21,284
193.77	7,174	17,459	194.29	7,937	21,364
193.78	7,184	17,531	194.30	7,955	21,443
193.79	7,195	17,603	194.31	7,973	21,523
193.80	7,206	17,675	194.32	7,991	21,603
193.81	7,216	17,747	194.33	8,008	21,683
193.82	7,227	17,819	194.34	8,026	21,763
193.83	7,238	17,891	194.35	8,044	21,843
193.84	7,248	17,964	194.36	8,062	21,924
193.85	7,259	18,036	194.37	8,080	22,004
193.86	7,270	18,109	194.38	8,098	22,085
193.87	7,280	18,182	194.39	8,116	22,166
193.88	7,291	18,254	194.40	8,133	22,247
193.89	7,302	18,327	194.41	8,151	22,329
193.90	7,312	18,400	194.42	8,169	22,411
193.91	7,323	18,474	194.43	8,187	22,492
193.92	7,334	18,547	194.44	8,205	22,574
193.93	7,344	18,620	194.45	8,223	22,656

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.46	8,241	22,739
194.47	8,258	22,821
194.48	8,276	22,904
194.49	8,294	22,987
194.50	8,312	23,070
194.51	8,330	23,153
194.52	8,348	23,236
194.53	8,366	23,320
194.54	8,383	23,404
194.55	8,401	23,488
194.56	8,419	23,572
194.57	8,437	23,656
194.58	8,455	23,740
194.59	8,473	23,825
194.60	8,491	23,910
194.61	8,508	23,995
194.62	8,526	24,080
194.63	8,544	24,165
194.64	8,562	24,251
194.65	8,580	24,337
194.66	8,598	24,423
194.67	8,616	24,509
194.68	8,633	24,595
194.69	8,651	24,681
194.70	8,669	24,768
194.71	8,687	24,855
194.72	8,705	24,942
194.73	8,723	25,029
194.74	8,741	25,116
194.75	8,759	25,204
194.76	8,776	25,291
194.77	8,794	25,379
194.78	8,812	25,467
194.79	8,830	25,555
194.80	8,848	25,644
194.81	8,866	25,732
194.82	8,884	25,821
194.83	8,901	25,910
194.84	8,919	25,999
194.85	8,937	26,088
194.86	8,955	26,178
194.87	8,973	26,267
194.88	8,991	26,357
194.89	9,009	26,447
194.90	9,026	26,537
194.91	9,044	26,628
194.92	9,062	26,718
194.93	9,080	26,809
194.94	9,098	26,900
194.95	9,116	26,991
194.96	9,134	27,082
194.97	9,151	27,174
194.98	9,169	27,265
194.99	9,187	27,357
195.00	**9,205**	**27,449**

Summary for Pond B-35: Basin #35

Inflow Area = 1.957 ac, 66.79% Impervious, Inflow Depth = 4.76" for Future 10 yr event
Inflow = 9.17 cfs @ 12.17 hrs, Volume= 0.777 af
Outflow = 4.80 cfs @ 12.33 hrs, Volume= 0.658 af, Atten= 48%, Lag= 9.3 min
Primary = 4.80 cfs @ 12.33 hrs, Volume= 0.658 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 193.53' @ 12.33 hrs Surf.Area= 6,323 sf Storage= 15,828 cf

Plug-Flow detention time= 270.0 min calculated for 0.658 af (85% of inflow)
Center-of-Mass det. time= 201.6 min (970.2 - 768.5)

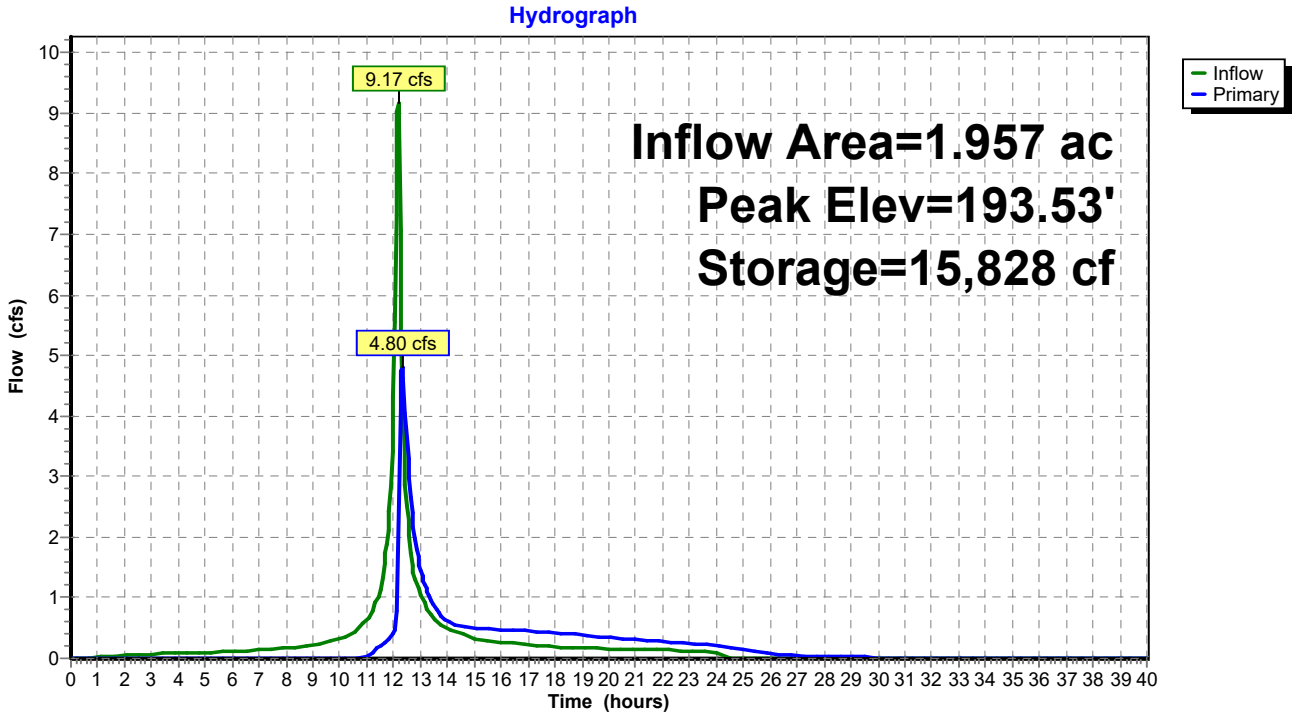
Volume	Invert	Avail.Storage	Storage Description
#1	189.80'	26,431 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
189.80	0	0	0
190.00	2,647	265	265
191.00	3,593	3,120	3,385
192.00	4,618	4,106	7,490
193.00	5,711	5,165	12,655
194.00	6,871	6,291	18,946
195.00	8,099	7,485	26,431

Device	Routing	Invert	Outlet Devices
#1	Primary	189.80'	**18.0" Round Culvert** L= 103.0' Ke= 0.500 Inlet / Outlet Invert= 189.80' / 189.30' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	191.44'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.05'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.50'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=4.76 cfs @ 12.33 hrs HW=193.52' (Free Discharge)
- **1=Culvert** (Passes 4.76 cfs of 12.73 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.58 cfs @ 6.67 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 4.17 cfs @ 2.25 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-35: Basin #35



Stage-Discharge for Pond B-35: Basin #35

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
189.80	0.00	190.32	0.00	190.84	0.00	191.36	0.00
189.81	0.00	190.33	0.00	190.85	0.00	191.37	0.00
189.82	0.00	190.34	0.00	190.86	0.00	191.38	0.00
189.83	0.00	190.35	0.00	190.87	0.00	191.39	0.00
189.84	0.00	190.36	0.00	190.88	0.00	191.40	0.00
189.85	0.00	190.37	0.00	190.89	0.00	191.41	0.00
189.86	0.00	190.38	0.00	190.90	0.00	191.42	0.00
189.87	0.00	190.39	0.00	190.91	0.00	191.43	0.00
189.88	0.00	190.40	0.00	190.92	0.00	191.44	0.00
189.89	0.00	190.41	0.00	190.93	0.00	191.45	0.00
189.90	0.00	190.42	0.00	190.94	0.00	191.46	0.00
189.91	0.00	190.43	0.00	190.95	0.00	191.47	0.00
189.92	0.00	190.44	0.00	190.96	0.00	191.48	0.00
189.93	0.00	190.45	0.00	190.97	0.00	191.49	0.01
189.94	0.00	190.46	0.00	190.98	0.00	191.50	0.01
189.95	0.00	190.47	0.00	190.99	0.00	191.51	0.01
189.96	0.00	190.48	0.00	191.00	0.00	191.52	0.02
189.97	0.00	190.49	0.00	191.01	0.00	191.53	0.02
189.98	0.00	190.50	0.00	191.02	0.00	191.54	0.02
189.99	0.00	190.51	0.00	191.03	0.00	191.55	0.03
190.00	0.00	190.52	0.00	191.04	0.00	191.56	0.03
190.01	0.00	190.53	0.00	191.05	0.00	191.57	0.04
190.02	0.00	190.54	0.00	191.06	0.00	191.58	0.04
190.03	0.00	190.55	0.00	191.07	0.00	191.59	0.05
190.04	0.00	190.56	0.00	191.08	0.00	191.60	0.06
190.05	0.00	190.57	0.00	191.09	0.00	191.61	0.06
190.06	0.00	190.58	0.00	191.10	0.00	191.62	0.07
190.07	0.00	190.59	0.00	191.11	0.00	191.63	0.08
190.08	0.00	190.60	0.00	191.12	0.00	191.64	0.08
190.09	0.00	190.61	0.00	191.13	0.00	191.65	0.09
190.10	0.00	190.62	0.00	191.14	0.00	191.66	0.10
190.11	0.00	190.63	0.00	191.15	0.00	191.67	0.10
190.12	0.00	190.64	0.00	191.16	0.00	191.68	0.11
190.13	0.00	190.65	0.00	191.17	0.00	191.69	0.12
190.14	0.00	190.66	0.00	191.18	0.00	191.70	0.13
190.15	0.00	190.67	0.00	191.19	0.00	191.71	0.13
190.16	0.00	190.68	0.00	191.20	0.00	191.72	0.14
190.17	0.00	190.69	0.00	191.21	0.00	191.73	0.15
190.18	0.00	190.70	0.00	191.22	0.00	191.74	0.15
190.19	0.00	190.71	0.00	191.23	0.00	191.75	0.16
190.20	0.00	190.72	0.00	191.24	0.00	191.76	0.17
190.21	0.00	190.73	0.00	191.25	0.00	191.77	0.17
190.22	0.00	190.74	0.00	191.26	0.00	191.78	0.17
190.23	0.00	190.75	0.00	191.27	0.00	191.79	0.18
190.24	0.00	190.76	0.00	191.28	0.00	191.80	0.18
190.25	0.00	190.77	0.00	191.29	0.00	191.81	0.19
190.26	0.00	190.78	0.00	191.30	0.00	191.82	0.19
190.27	0.00	190.79	0.00	191.31	0.00	191.83	0.20
190.28	0.00	190.80	0.00	191.32	0.00	191.84	0.20
190.29	0.00	190.81	0.00	191.33	0.00	191.85	0.21
190.30	0.00	190.82	0.00	191.34	0.00	191.86	0.21
190.31	0.00	190.83	0.00	191.35	0.00	191.87	0.22

Stage-Discharge for Pond B-35: Basin #35 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
191.88	0.22	192.40	0.37	192.92	0.48	193.44	3.69
191.89	0.22	192.41	0.38	192.93	0.48	193.45	3.81
191.90	0.23	192.42	0.38	192.94	0.49	193.46	3.94
191.91	0.23	192.43	0.38	192.95	0.49	193.47	4.06
191.92	0.24	192.44	0.38	192.96	0.49	193.48	4.18
191.93	0.24	192.45	0.39	192.97	0.49	193.49	4.31
191.94	0.24	192.46	0.39	192.98	0.49	193.50	4.44
191.95	0.25	192.47	0.39	192.99	0.49	193.51	4.57
191.96	0.25	192.48	0.39	193.00	0.50	193.52	4.70
191.97	0.25	192.49	0.39	193.01	0.50	193.53	4.83
191.98	0.26	192.50	0.40	193.02	0.50	193.54	4.96
191.99	0.26	192.51	0.40	193.03	0.50	193.55	5.09
192.00	0.26	192.52	0.40	193.04	0.50	193.56	5.23
192.01	0.27	192.53	0.40	193.05	0.50	193.57	5.37
192.02	0.27	192.54	0.41	193.06	0.52	193.58	5.50
192.03	0.27	192.55	0.41	193.07	0.55	193.59	5.64
192.04	0.28	192.56	0.41	193.08	0.58	193.60	5.78
192.05	0.28	192.57	0.41	193.09	0.62	193.61	5.92
192.06	0.28	192.58	0.41	193.10	0.66	193.62	6.06
192.07	0.29	192.59	0.42	193.11	0.71	193.63	6.21
192.08	0.29	192.60	0.42	193.12	0.76	193.64	6.35
192.09	0.29	192.61	0.42	193.13	0.81	193.65	6.50
192.10	0.30	192.62	0.42	193.14	0.87	193.66	6.64
192.11	0.30	192.63	0.43	193.15	0.93	193.67	6.79
192.12	0.30	192.64	0.43	193.16	1.00	193.68	6.94
192.13	0.30	192.65	0.43	193.17	1.07	193.69	7.09
192.14	0.31	192.66	0.43	193.18	1.14	193.70	7.24
192.15	0.31	192.67	0.43	193.19	1.21	193.71	7.39
192.16	0.31	192.68	0.44	193.20	1.28	193.72	7.54
192.17	0.32	192.69	0.44	193.21	1.36	193.73	7.70
192.18	0.32	192.70	0.44	193.22	1.44	193.74	7.85
192.19	0.32	192.71	0.44	193.23	1.53	193.75	8.01
192.20	0.32	192.72	0.44	193.24	1.61	193.76	8.16
192.21	0.33	192.73	0.45	193.25	1.70	193.77	8.32
192.22	0.33	192.74	0.45	193.26	1.79	193.78	8.48
192.23	0.33	192.75	0.45	193.27	1.88	193.79	8.64
192.24	0.33	192.76	0.45	193.28	1.97	193.80	8.80
192.25	0.34	192.77	0.45	193.29	2.06	193.81	8.96
192.26	0.34	192.78	0.46	193.30	2.16	193.82	9.12
192.27	0.34	192.79	0.46	193.31	2.26	193.83	9.29
192.28	0.34	192.80	0.46	193.32	2.36	193.84	9.45
192.29	0.35	192.81	0.46	193.33	2.46	193.85	9.61
192.30	0.35	192.82	0.46	193.34	2.57	193.86	9.78
192.31	0.35	192.83	0.46	193.35	2.67	193.87	9.95
192.32	0.35	192.84	0.47	193.36	2.78	193.88	10.11
192.33	0.36	192.85	0.47	193.37	2.89	193.89	10.28
192.34	0.36	192.86	0.47	193.38	3.00	193.90	10.45
192.35	0.36	192.87	0.47	193.39	3.11	193.91	10.62
192.36	0.36	192.88	0.47	193.40	3.22	193.92	10.79
192.37	0.37	192.89	0.48	193.41	3.34	193.93	10.96
192.38	0.37	192.90	0.48	193.42	3.46	193.94	11.14
192.39	0.37	192.91	0.48	193.43	3.57	193.95	11.31

Stage-Discharge for Pond B-35: Basin #35 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.96	11.48	194.48	14.79	195.00	**62.86**
193.97	11.66	194.49	14.81		
193.98	11.83	194.50	14.83		
193.99	12.01	194.51	14.97		
194.00	12.19	194.52	15.20		
194.01	12.36	194.53	15.50		
194.02	12.54	194.54	15.85		
194.03	12.72	194.55	16.24		
194.04	12.90	194.56	16.67		
194.05	13.08	194.57	17.14		
194.06	13.26	194.58	17.65		
194.07	13.45	194.59	18.18		
194.08	13.63	194.60	18.75		
194.09	13.81	194.61	19.34		
194.10	14.00	194.62	19.96		
194.11	14.03	194.63	20.61		
194.12	14.05	194.64	21.28		
194.13	14.07	194.65	21.97		
194.14	14.09	194.66	22.69		
194.15	14.11	194.67	23.43		
194.16	14.13	194.68	24.20		
194.17	14.15	194.69	24.98		
194.18	14.17	194.70	25.79		
194.19	14.19	194.71	26.66		
194.20	14.22	194.72	27.55		
194.21	14.24	194.73	28.47		
194.22	14.26	194.74	29.41		
194.23	14.28	194.75	30.38		
194.24	14.30	194.76	31.37		
194.25	14.32	194.77	32.39		
194.26	14.34	194.78	33.43		
194.27	14.36	194.79	34.50		
194.28	14.38	194.80	35.59		
194.29	14.40	194.81	36.70		
194.30	14.42	194.82	37.84		
194.31	14.44	194.83	39.01		
194.32	14.46	194.84	40.20		
194.33	14.48	194.85	41.41		
194.34	14.51	194.86	42.65		
194.35	14.53	194.87	43.91		
194.36	14.55	194.88	45.20		
194.37	14.57	194.89	46.51		
194.38	14.59	194.90	47.84		
194.39	14.61	194.91	49.23		
194.40	14.63	194.92	50.64		
194.41	14.65	194.93	52.07		
194.42	14.67	194.94	53.54		
194.43	14.69	194.95	55.02		
194.44	14.71	194.96	56.54		
194.45	14.73	194.97	58.08		
194.46	14.75	194.98	59.65		
194.47	14.77	194.99	61.24		

Stage-Area-Storage for Pond B-35: Basin #35

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
189.80	0	0
189.81	132	1
189.82	265	3
189.83	397	6
189.84	529	11
189.85	662	17
189.86	794	24
189.87	926	32
189.88	1,059	42
189.89	1,191	54
189.90	1,324	66
189.91	1,456	80
189.92	1,588	95
189.93	1,721	112
189.94	1,853	130
189.95	1,985	149
189.96	2,118	169
189.97	2,250	191
189.98	2,382	214
189.99	2,515	239
190.00	2,647	265
190.01	2,656	291
190.02	2,666	318
190.03	2,675	345
190.04	2,685	371
190.05	2,694	398
190.06	2,704	425
190.07	2,713	452
190.08	2,723	479
190.09	2,732	507
190.10	2,742	534
190.11	2,751	562
190.12	2,761	589
190.13	2,770	617
190.14	2,779	645
190.15	2,789	672
190.16	2,798	700
190.17	2,808	728
190.18	2,817	756
190.19	2,827	785
190.20	2,836	813
190.21	2,846	841
190.22	2,855	870
190.23	2,865	899
190.24	2,874	927
190.25	2,884	956
190.26	2,893	985
190.27	2,902	1,014
190.28	2,912	1,043
190.29	2,921	1,072
190.30	2,931	1,101
190.31	2,940	1,131
190.32	2,950	1,160
190.33	2,959	1,190
190.34	2,969	1,219
190.35	2,978	1,249
190.36	2,988	1,279
190.37	2,997	1,309
190.38	3,006	1,339
190.39	3,016	1,369
190.40	3,025	1,399
190.41	3,035	1,429
190.42	3,044	1,460
190.43	3,054	1,490
190.44	3,063	1,521
190.45	3,073	1,552
190.46	3,082	1,582
190.47	3,092	1,613
190.48	3,101	1,644
190.49	3,111	1,675
190.50	3,120	1,706
190.51	3,129	1,738
190.52	3,139	1,769
190.53	3,148	1,800
190.54	3,158	1,832
190.55	3,167	1,864
190.56	3,177	1,895
190.57	3,186	1,927
190.58	3,196	1,959
190.59	3,205	1,991
190.60	3,215	2,023
190.61	3,224	2,055
190.62	3,234	2,088
190.63	3,243	2,120
190.64	3,252	2,153
190.65	3,262	2,185
190.66	3,271	2,218
190.67	3,281	2,251
190.68	3,290	2,283
190.69	3,300	2,316
190.70	3,309	2,349
190.71	3,319	2,383
190.72	3,328	2,416
190.73	3,338	2,449
190.74	3,347	2,482
190.75	3,357	2,516
190.76	3,366	2,550
190.77	3,375	2,583
190.78	3,385	2,617
190.79	3,394	2,651
190.80	3,404	2,685
190.81	3,413	2,719
190.82	3,423	2,753
190.83	3,432	2,788

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.84	3,442	2,822	191.36	3,962	4,745
190.85	3,451	2,856	191.37	3,972	4,784
190.86	3,461	2,891	191.38	3,983	4,824
190.87	3,470	2,926	191.39	3,993	4,864
190.88	3,479	2,960	191.40	4,003	4,904
190.89	3,489	2,995	191.41	4,013	4,944
190.90	3,498	3,030	191.42	4,024	4,984
190.91	3,508	3,065	191.43	4,034	5,024
190.92	3,517	3,100	191.44	4,044	5,065
190.93	3,527	3,136	191.45	4,054	5,105
190.94	3,536	3,171	191.46	4,065	5,146
190.95	3,546	3,206	191.47	4,075	5,187
190.96	3,555	3,242	191.48	4,085	5,227
190.97	3,565	3,277	191.49	4,095	5,268
190.98	3,574	3,313	191.50	4,106	5,309
190.99	3,584	3,349	191.51	4,116	5,350
191.00	3,593	3,385	191.52	4,126	5,392
191.01	3,603	3,421	191.53	4,136	5,433
191.02	3,614	3,457	191.54	4,147	5,474
191.03	3,624	3,493	191.55	4,157	5,516
191.04	3,634	3,529	191.56	4,167	5,557
191.05	3,644	3,566	191.57	4,177	5,599
191.06	3,655	3,602	191.58	4,188	5,641
191.07	3,665	3,639	191.59	4,198	5,683
191.08	3,675	3,675	191.60	4,208	5,725
191.09	3,685	3,712	191.61	4,218	5,767
191.10	3,696	3,749	191.62	4,229	5,809
191.11	3,706	3,786	191.63	4,239	5,852
191.12	3,716	3,823	191.64	4,249	5,894
191.13	3,726	3,860	191.65	4,259	5,937
191.14	3,737	3,898	191.66	4,270	5,979
191.15	3,747	3,935	191.67	4,280	6,022
191.16	3,757	3,973	191.68	4,290	6,065
191.17	3,767	4,010	191.69	4,300	6,108
191.18	3,778	4,048	191.70	4,311	6,151
191.19	3,788	4,086	191.71	4,321	6,194
191.20	3,798	4,124	191.72	4,331	6,237
191.21	3,808	4,162	191.73	4,341	6,281
191.22	3,818	4,200	191.74	4,352	6,324
191.23	3,829	4,238	191.75	4,362	6,368
191.24	3,839	4,277	191.76	4,372	6,411
191.25	3,849	4,315	191.77	4,382	6,455
191.26	3,860	4,354	191.78	4,393	6,499
191.27	3,870	4,392	191.79	4,403	6,543
191.28	3,880	4,431	191.80	4,413	6,587
191.29	3,890	4,470	191.81	4,423	6,631
191.30	3,901	4,509	191.82	4,434	6,676
191.31	3,911	4,548	191.83	4,444	6,720
191.32	3,921	4,587	191.84	4,454	6,764
191.33	3,931	4,626	191.85	4,464	6,809
191.34	3,942	4,666	191.86	4,475	6,854
191.35	3,952	4,705	191.87	4,485	6,899

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.88	4,495	6,943	192.40	5,055	9,425
191.89	4,505	6,988	192.41	5,066	9,475
191.90	4,516	7,034	192.42	5,077	9,526
191.91	4,526	7,079	192.43	5,088	9,577
191.92	4,536	7,124	192.44	5,099	9,628
191.93	4,546	7,169	192.45	5,110	9,679
191.94	4,556	7,215	192.46	5,121	9,730
191.95	4,567	7,261	192.47	5,132	9,781
191.96	4,577	7,306	192.48	5,143	9,833
191.97	4,587	7,352	192.49	5,154	9,884
191.98	4,598	7,398	192.50	5,165	9,936
191.99	4,608	7,444	192.51	5,175	9,988
192.00	4,618	7,490	192.52	5,186	10,039
192.01	4,629	7,536	192.53	5,197	10,091
192.02	4,640	7,583	192.54	5,208	10,143
192.03	4,651	7,629	192.55	5,219	10,195
192.04	4,662	7,676	192.56	5,230	10,248
192.05	4,673	7,722	192.57	5,241	10,300
192.06	4,684	7,769	192.58	5,252	10,352
192.07	4,695	7,816	192.59	5,263	10,405
192.08	4,705	7,863	192.60	5,274	10,458
192.09	4,716	7,910	192.61	5,285	10,511
192.10	4,727	7,957	192.62	5,296	10,563
192.11	4,738	8,005	192.63	5,307	10,616
192.12	4,749	8,052	192.64	5,318	10,670
192.13	4,760	8,100	192.65	5,328	10,723
192.14	4,771	8,147	192.66	5,339	10,776
192.15	4,782	8,195	192.67	5,350	10,830
192.16	4,793	8,243	192.68	5,361	10,883
192.17	4,804	8,291	192.69	5,372	10,937
192.18	4,815	8,339	192.70	5,383	10,991
192.19	4,826	8,387	192.71	5,394	11,044
192.20	4,837	8,436	192.72	5,405	11,098
192.21	4,848	8,484	192.73	5,416	11,153
192.22	4,858	8,533	192.74	5,427	11,207
192.23	4,869	8,581	192.75	5,438	11,261
192.24	4,880	8,630	192.76	5,449	11,316
192.25	4,891	8,679	192.77	5,460	11,370
192.26	4,902	8,728	192.78	5,471	11,425
192.27	4,913	8,777	192.79	5,481	11,479
192.28	4,924	8,826	192.80	5,492	11,534
192.29	4,935	8,875	192.81	5,503	11,589
192.30	4,946	8,925	192.82	5,514	11,644
192.31	4,957	8,974	192.83	5,525	11,700
192.32	4,968	9,024	192.84	5,536	11,755
192.33	4,979	9,074	192.85	5,547	11,810
192.34	4,990	9,123	192.86	5,558	11,866
192.35	5,001	9,173	192.87	5,569	11,922
192.36	5,011	9,224	192.88	5,580	11,977
192.37	5,022	9,274	192.89	5,591	12,033
192.38	5,033	9,324	192.90	5,602	12,089
192.39	5,044	9,374	192.91	5,613	12,145

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.92	5,624	12,201	193.44	6,221	15,280
192.93	5,634	12,258	193.45	6,233	15,342
192.94	5,645	12,314	193.46	6,245	15,404
192.95	5,656	12,371	193.47	6,256	15,467
192.96	5,667	12,427	193.48	6,268	15,530
192.97	5,678	12,484	193.49	6,279	15,592
192.98	5,689	12,541	193.50	6,291	15,655
192.99	5,700	12,598	193.51	6,303	15,718
193.00	5,711	12,655	193.52	6,314	15,781
193.01	5,723	12,712	193.53	6,326	15,844
193.02	5,734	12,769	193.54	6,337	15,908
193.03	5,746	12,827	193.55	6,349	15,971
193.04	5,757	12,884	193.56	6,361	16,035
193.05	5,769	12,942	193.57	6,372	16,098
193.06	5,781	12,999	193.58	6,384	16,162
193.07	5,792	13,057	193.59	6,395	16,226
193.08	5,804	13,115	193.60	6,407	16,290
193.09	5,815	13,173	193.61	6,419	16,354
193.10	5,827	13,232	193.62	6,430	16,418
193.11	5,839	13,290	193.63	6,442	16,483
193.12	5,850	13,348	193.64	6,453	16,547
193.13	5,862	13,407	193.65	6,465	16,612
193.14	5,873	13,466	193.66	6,477	16,677
193.15	5,885	13,524	193.67	6,488	16,741
193.16	5,897	13,583	193.68	6,500	16,806
193.17	5,908	13,642	193.69	6,511	16,871
193.18	5,920	13,701	193.70	6,523	16,937
193.19	5,931	13,761	193.71	6,535	17,002
193.20	5,943	13,820	193.72	6,546	17,067
193.21	5,955	13,880	193.73	6,558	17,133
193.22	5,966	13,939	193.74	6,569	17,198
193.23	5,978	13,999	193.75	6,581	17,264
193.24	5,989	14,059	193.76	6,593	17,330
193.25	6,001	14,119	193.77	6,604	17,396
193.26	6,013	14,179	193.78	6,616	17,462
193.27	6,024	14,239	193.79	6,627	17,528
193.28	6,036	14,299	193.80	6,639	17,595
193.29	6,047	14,360	193.81	6,651	17,661
193.30	6,059	14,420	193.82	6,662	17,728
193.31	6,071	14,481	193.83	6,674	17,794
193.32	6,082	14,542	193.84	6,685	17,861
193.33	6,094	14,602	193.85	6,697	17,928
193.34	6,105	14,663	193.86	6,709	17,995
193.35	6,117	14,725	193.87	6,720	18,062
193.36	6,129	14,786	193.88	6,732	18,130
193.37	6,140	14,847	193.89	6,743	18,197
193.38	6,152	14,909	193.90	6,755	18,264
193.39	6,163	14,970	193.91	6,767	18,332
193.40	6,175	15,032	193.92	6,778	18,400
193.41	6,187	15,094	193.93	6,790	18,468
193.42	6,198	15,156	193.94	6,801	18,536
193.43	6,210	15,218	193.95	6,813	18,604

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.96	6,825	18,672	194.48	7,460	22,385
193.97	6,836	18,740	194.49	7,473	22,460
193.98	6,848	18,809	194.50	7,485	22,535
193.99	6,859	18,877	194.51	7,497	22,610
194.00	6,871	18,946	194.52	7,510	22,685
194.01	6,883	19,014	194.53	7,522	22,760
194.02	6,896	19,083	194.54	7,534	22,835
194.03	6,908	19,152	194.55	7,546	22,910
194.04	6,920	19,222	194.56	7,559	22,986
194.05	6,932	19,291	194.57	7,571	23,062
194.06	6,945	19,360	194.58	7,583	23,137
194.07	6,957	19,430	194.59	7,596	23,213
194.08	6,969	19,499	194.60	7,608	23,289
194.09	6,982	19,569	194.61	7,620	23,365
194.10	6,994	19,639	194.62	7,632	23,442
194.11	7,006	19,709	194.63	7,645	23,518
194.12	7,018	19,779	194.64	7,657	23,595
194.13	7,031	19,849	194.65	7,669	23,671
194.14	7,043	19,920	194.66	7,681	23,748
194.15	7,055	19,990	194.67	7,694	23,825
194.16	7,067	20,061	194.68	7,706	23,902
194.17	7,080	20,132	194.69	7,718	23,979
194.18	7,092	20,202	194.70	7,731	24,056
194.19	7,104	20,273	194.71	7,743	24,134
194.20	7,117	20,344	194.72	7,755	24,211
194.21	7,129	20,416	194.73	7,767	24,289
194.22	7,141	20,487	194.74	7,780	24,366
194.23	7,153	20,559	194.75	7,792	24,444
194.24	7,166	20,630	194.76	7,804	24,522
194.25	7,178	20,702	194.77	7,817	24,600
194.26	7,190	20,774	194.78	7,829	24,679
194.27	7,203	20,846	194.79	7,841	24,757
194.28	7,215	20,918	194.80	7,853	24,835
194.29	7,227	20,990	194.81	7,866	24,914
194.30	7,239	21,062	194.82	7,878	24,993
194.31	7,252	21,135	194.83	7,890	25,072
194.32	7,264	21,207	194.84	7,903	25,151
194.33	7,276	21,280	194.85	7,915	25,230
194.34	7,289	21,353	194.86	7,927	25,309
194.35	7,301	21,426	194.87	7,939	25,388
194.36	7,313	21,499	194.88	7,952	25,468
194.37	7,325	21,572	194.89	7,964	25,547
194.38	7,338	21,645	194.90	7,976	25,627
194.39	7,350	21,719	194.91	7,988	25,707
194.40	7,362	21,792	194.92	8,001	25,787
194.41	7,374	21,866	194.93	8,013	25,867
194.42	7,387	21,940	194.94	8,025	25,947
194.43	7,399	22,014	194.95	8,038	26,027
194.44	7,411	22,088	194.96	8,050	26,108
194.45	7,424	22,162	194.97	8,062	26,188
194.46	7,436	22,236	194.98	8,074	26,269
194.47	7,448	22,311	194.99	8,087	26,350

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.00	**8,099**	**26,431**

Summary for Pond B-36A: Basin #36A

Inflow Area = 2.377 ac, 40.60% Impervious, Inflow Depth = 4.10" for Future 10 yr event
Inflow = 9.92 cfs @ 12.17 hrs, Volume= 0.811 af
Outflow = 6.84 cfs @ 12.28 hrs, Volume= 0.718 af, Atten= 31%, Lag= 6.2 min
Primary = 6.84 cfs @ 12.28 hrs, Volume= 0.718 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 194.62' @ 12.28 hrs Surf.Area= 4,921 sf Storage= 13,569 cf

Plug-Flow detention time= 207.9 min calculated for 0.717 af (88% of inflow)
Center-of-Mass det. time= 151.4 min (940.0 - 788.6)

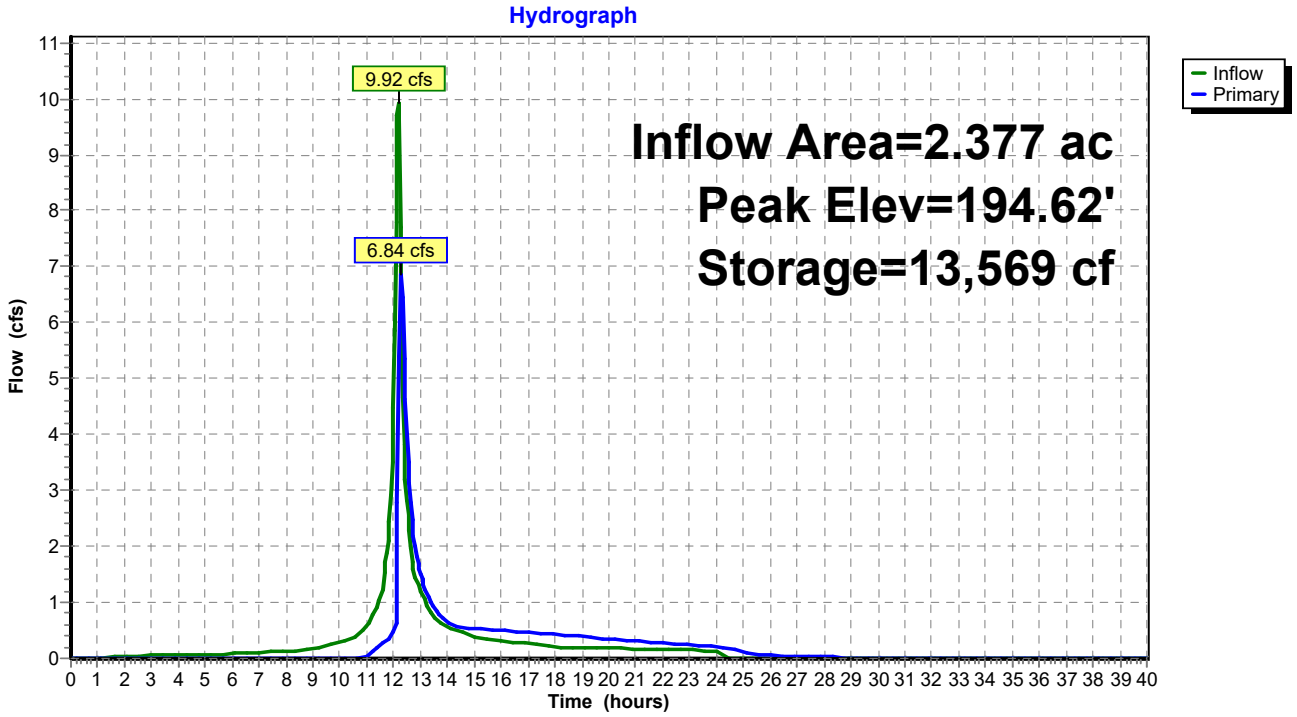
Volume	Invert	Avail.Storage	Storage Description
#1	190.50'	16,844 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.50	0	0	0
191.00	2,366	592	592
192.00	2,995	2,681	3,272
193.00	3,681	3,338	6,610
194.00	4,424	4,053	10,663
195.00	5,223	4,824	15,486
195.25	5,644	1,358	16,844

Device	Routing	Invert	Outlet Devices
#1	Primary	190.50'	**18.0" Round Culvert** L= 82.0' Ke= 0.500 Inlet / Outlet Invert= 190.50' / 190.10' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.24'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	194.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.95'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=6.76 cfs @ 12.28 hrs HW=194.62' (Free Discharge)
- **1=Culvert** (Passes 6.76 cfs of 14.22 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.62 cfs @ 7.16 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 6.14 cfs @ 2.57 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-36A: Basin #36A



Stage-Discharge for Pond B-36A: Basin #36A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.50	0.00	191.02	0.00	191.54	0.00	192.06	0.00
190.51	0.00	191.03	0.00	191.55	0.00	192.07	0.00
190.52	0.00	191.04	0.00	191.56	0.00	192.08	0.00
190.53	0.00	191.05	0.00	191.57	0.00	192.09	0.00
190.54	0.00	191.06	0.00	191.58	0.00	192.10	0.00
190.55	0.00	191.07	0.00	191.59	0.00	192.11	0.00
190.56	0.00	191.08	0.00	191.60	0.00	192.12	0.00
190.57	0.00	191.09	0.00	191.61	0.00	192.13	0.00
190.58	0.00	191.10	0.00	191.62	0.00	192.14	0.00
190.59	0.00	191.11	0.00	191.63	0.00	192.15	0.00
190.60	0.00	191.12	0.00	191.64	0.00	192.16	0.00
190.61	0.00	191.13	0.00	191.65	0.00	192.17	0.00
190.62	0.00	191.14	0.00	191.66	0.00	192.18	0.00
190.63	0.00	191.15	0.00	191.67	0.00	192.19	0.00
190.64	0.00	191.16	0.00	191.68	0.00	192.20	0.00
190.65	0.00	191.17	0.00	191.69	0.00	192.21	0.00
190.66	0.00	191.18	0.00	191.70	0.00	192.22	0.00
190.67	0.00	191.19	0.00	191.71	0.00	192.23	0.00
190.68	0.00	191.20	0.00	191.72	0.00	192.24	0.00
190.69	0.00	191.21	0.00	191.73	0.00	192.25	0.00
190.70	0.00	191.22	0.00	191.74	0.00	192.26	0.00
190.71	0.00	191.23	0.00	191.75	0.00	192.27	0.00
190.72	0.00	191.24	0.00	191.76	0.00	192.28	0.00
190.73	0.00	191.25	0.00	191.77	0.00	192.29	0.01
190.74	0.00	191.26	0.00	191.78	0.00	192.30	0.01
190.75	0.00	191.27	0.00	191.79	0.00	192.31	0.01
190.76	0.00	191.28	0.00	191.80	0.00	192.32	0.02
190.77	0.00	191.29	0.00	191.81	0.00	192.33	0.02
190.78	0.00	191.30	0.00	191.82	0.00	192.34	0.02
190.79	0.00	191.31	0.00	191.83	0.00	192.35	0.03
190.80	0.00	191.32	0.00	191.84	0.00	192.36	0.03
190.81	0.00	191.33	0.00	191.85	0.00	192.37	0.04
190.82	0.00	191.34	0.00	191.86	0.00	192.38	0.04
190.83	0.00	191.35	0.00	191.87	0.00	192.39	0.05
190.84	0.00	191.36	0.00	191.88	0.00	192.40	0.06
190.85	0.00	191.37	0.00	191.89	0.00	192.41	0.06
190.86	0.00	191.38	0.00	191.90	0.00	192.42	0.07
190.87	0.00	191.39	0.00	191.91	0.00	192.43	0.08
190.88	0.00	191.40	0.00	191.92	0.00	192.44	0.08
190.89	0.00	191.41	0.00	191.93	0.00	192.45	0.09
190.90	0.00	191.42	0.00	191.94	0.00	192.46	0.10
190.91	0.00	191.43	0.00	191.95	0.00	192.47	0.10
190.92	0.00	191.44	0.00	191.96	0.00	192.48	0.11
190.93	0.00	191.45	0.00	191.97	0.00	192.49	0.12
190.94	0.00	191.46	0.00	191.98	0.00	192.50	0.13
190.95	0.00	191.47	0.00	191.99	0.00	192.51	0.13
190.96	0.00	191.48	0.00	192.00	0.00	192.52	0.14
190.97	0.00	191.49	0.00	192.01	0.00	192.53	0.15
190.98	0.00	191.50	0.00	192.02	0.00	192.54	0.15
190.99	0.00	191.51	0.00	192.03	0.00	192.55	0.16
191.00	0.00	191.52	0.00	192.04	0.00	192.56	0.17
191.01	0.00	191.53	0.00	192.05	0.00	192.57	0.17

Stage-Discharge for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.58	0.17	193.10	0.35	193.62	0.46	194.14	1.23
192.59	0.18	193.11	0.35	193.63	0.46	194.15	1.31
192.60	0.18	193.12	0.35	193.64	0.47	194.16	1.39
192.61	0.19	193.13	0.36	193.65	0.47	194.17	1.47
192.62	0.19	193.14	0.36	193.66	0.47	194.18	1.55
192.63	0.20	193.15	0.36	193.67	0.47	194.19	1.63
192.64	0.20	193.16	0.36	193.68	0.47	194.20	1.72
192.65	0.21	193.17	0.37	193.69	0.48	194.21	1.81
192.66	0.21	193.18	0.37	193.70	0.48	194.22	1.90
192.67	0.22	193.19	0.37	193.71	0.48	194.23	1.99
192.68	0.22	193.20	0.37	193.72	0.48	194.24	2.09
192.69	0.22	193.21	0.38	193.73	0.48	194.25	2.19
192.70	0.23	193.22	0.38	193.74	0.49	194.26	2.28
192.71	0.23	193.23	0.38	193.75	0.49	194.27	2.38
192.72	0.24	193.24	0.38	193.76	0.49	194.28	2.49
192.73	0.24	193.25	0.39	193.77	0.49	194.29	2.59
192.74	0.24	193.26	0.39	193.78	0.49	194.30	2.70
192.75	0.25	193.27	0.39	193.79	0.49	194.31	2.80
192.76	0.25	193.28	0.39	193.80	0.50	194.32	2.91
192.77	0.25	193.29	0.39	193.81	0.50	194.33	3.02
192.78	0.26	193.30	0.40	193.82	0.50	194.34	3.13
192.79	0.26	193.31	0.40	193.83	0.50	194.35	3.25
192.80	0.26	193.32	0.40	193.84	0.50	194.36	3.36
192.81	0.27	193.33	0.40	193.85	0.50	194.37	3.48
192.82	0.27	193.34	0.41	193.86	0.51	194.38	3.60
192.83	0.27	193.35	0.41	193.87	0.51	194.39	3.72
192.84	0.28	193.36	0.41	193.88	0.51	194.40	3.84
192.85	0.28	193.37	0.41	193.89	0.51	194.41	3.96
192.86	0.28	193.38	0.41	193.90	0.51	194.42	4.08
192.87	0.29	193.39	0.42	193.91	0.52	194.43	4.21
192.88	0.29	193.40	0.42	193.92	0.52	194.44	4.33
192.89	0.29	193.41	0.42	193.93	0.52	194.45	4.46
192.90	0.30	193.42	0.42	193.94	0.52	194.46	4.59
192.91	0.30	193.43	0.43	193.95	0.52	194.47	4.72
192.92	0.30	193.44	0.43	193.96	0.52	194.48	4.85
192.93	0.30	193.45	0.43	193.97	0.53	194.49	4.98
192.94	0.31	193.46	0.43	193.98	0.53	194.50	5.12
192.95	0.31	193.47	0.43	193.99	0.53	194.51	5.25
192.96	0.31	193.48	0.44	194.00	0.53	194.52	5.39
192.97	0.32	193.49	0.44	194.01	0.55	194.53	5.53
192.98	0.32	193.50	0.44	194.02	0.57	194.54	5.66
192.99	0.32	193.51	0.44	194.03	0.60	194.55	5.80
193.00	0.32	193.52	0.44	194.04	0.64	194.56	5.94
193.01	0.33	193.53	0.45	194.05	0.68	194.57	6.09
193.02	0.33	193.54	0.45	194.06	0.73	194.58	6.23
193.03	0.33	193.55	0.45	194.07	0.78	194.59	6.37
193.04	0.33	193.56	0.45	194.08	0.84	194.60	6.52
193.05	0.34	193.57	0.45	194.09	0.90	194.61	6.67
193.06	0.34	193.58	0.46	194.10	0.96	194.62	6.81
193.07	0.34	193.59	0.46	194.11	1.02	194.63	6.96
193.08	0.34	193.60	0.46	194.12	1.09	194.64	7.11
193.09	0.35	193.61	0.46	194.13	1.16	194.65	7.26

Stage-Discharge for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Primary (cfs)
194.66	7.41
194.67	7.57
194.68	7.72
194.69	7.87
194.70	8.03
194.71	8.19
194.72	8.34
194.73	8.50
194.74	8.66
194.75	8.82
194.76	8.98
194.77	9.14
194.78	9.31
194.79	9.47
194.80	9.63
194.81	9.80
194.82	9.97
194.83	10.13
194.84	10.30
194.85	10.47
194.86	10.64
194.87	10.81
194.88	10.98
194.89	11.16
194.90	11.33
194.91	11.50
194.92	11.68
194.93	11.85
194.94	12.03
194.95	12.21
194.96	12.50
194.97	12.89
194.98	13.35
194.99	13.86
195.00	14.41
195.01	15.01
195.02	15.64
195.03	16.31
195.04	17.01
195.05	17.74
195.06	18.49
195.07	19.28
195.08	20.09
195.09	20.93
195.10	21.80
195.11	22.68
195.12	23.60
195.13	24.40
195.14	25.18
195.15	25.99
195.16	26.86
195.17	27.75
195.18	28.67
195.19	29.62
195.20	30.59
195.21	31.58
195.22	32.60
195.23	33.65
195.24	34.72
195.25	**35.81**

Stage-Area-Storage for Pond B-36A: Basin #36A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.50	0	0
190.51	47	0
190.52	95	1
190.53	142	2
190.54	189	4
190.55	237	6
190.56	284	9
190.57	331	12
190.58	379	15
190.59	426	19
190.60	473	24
190.61	521	29
190.62	568	34
190.63	615	40
190.64	662	46
190.65	710	53
190.66	757	61
190.67	804	68
190.68	852	77
190.69	899	85
190.70	946	95
190.71	994	104
190.72	1,041	115
190.73	1,088	125
190.74	1,136	136
190.75	1,183	148
190.76	1,230	160
190.77	1,278	172
190.78	1,325	185
190.79	1,372	199
190.80	1,420	213
190.81	1,467	227
190.82	1,514	242
190.83	1,562	258
190.84	1,609	274
190.85	1,656	290
190.86	1,704	307
190.87	1,751	324
190.88	1,798	342
190.89	1,845	360
190.90	1,893	379
190.91	1,940	398
190.92	1,987	417
190.93	2,035	437
190.94	2,082	458
190.95	2,129	479
190.96	2,177	501
190.97	2,224	523
190.98	2,271	545
190.99	2,319	568
191.00	2,366	592
191.01	2,372	615
191.02	2,379	639
191.03	2,385	663
191.04	2,391	687
191.05	2,397	711
191.06	2,404	735
191.07	2,410	759
191.08	2,416	783
191.09	2,423	807
191.10	2,429	831
191.11	2,435	856
191.12	2,441	880
191.13	2,448	904
191.14	2,454	929
191.15	2,460	953
191.16	2,467	978
191.17	2,473	1,003
191.18	2,479	1,028
191.19	2,486	1,052
191.20	2,492	1,077
191.21	2,498	1,102
191.22	2,504	1,127
191.23	2,511	1,152
191.24	2,517	1,177
191.25	2,523	1,203
191.26	2,530	1,228
191.27	2,536	1,253
191.28	2,542	1,279
191.29	2,548	1,304
191.30	2,555	1,330
191.31	2,561	1,355
191.32	2,567	1,381
191.33	2,574	1,407
191.34	2,580	1,432
191.35	2,586	1,458
191.36	2,592	1,484
191.37	2,599	1,510
191.38	2,605	1,536
191.39	2,611	1,562
191.40	2,618	1,588
191.41	2,624	1,614
191.42	2,630	1,641
191.43	2,636	1,667
191.44	2,643	1,693
191.45	2,649	1,720
191.46	2,655	1,746
191.47	2,662	1,773
191.48	2,668	1,800
191.49	2,674	1,826
191.50	2,681	1,853
191.51	2,687	1,880
191.52	2,693	1,907
191.53	2,699	1,934

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.54	2,706	1,961
191.55	2,712	1,988
191.56	2,718	2,015
191.57	2,725	2,042
191.58	2,731	2,070
191.59	2,737	2,097
191.60	2,743	2,124
191.61	2,750	2,152
191.62	2,756	2,179
191.63	2,762	2,207
191.64	2,769	2,235
191.65	2,775	2,262
191.66	2,781	2,290
191.67	2,787	2,318
191.68	2,794	2,346
191.69	2,800	2,374
191.70	2,806	2,402
191.71	2,813	2,430
191.72	2,819	2,458
191.73	2,825	2,486
191.74	2,831	2,515
191.75	2,838	2,543
191.76	2,844	2,571
191.77	2,850	2,600
191.78	2,857	2,628
191.79	2,863	2,657
191.80	2,869	2,686
191.81	2,875	2,714
191.82	2,882	2,743
191.83	2,888	2,772
191.84	2,894	2,801
191.85	2,901	2,830
191.86	2,907	2,859
191.87	2,913	2,888
191.88	2,920	2,917
191.89	2,926	2,946
191.90	2,932	2,976
191.91	2,938	3,005
191.92	2,945	3,034
191.93	2,951	3,064
191.94	2,957	3,093
191.95	2,964	3,123
191.96	2,970	3,153
191.97	2,976	3,182
191.98	2,982	3,212
191.99	2,989	3,242
192.00	2,995	3,272
192.01	3,002	3,302
192.02	3,009	3,332
192.03	3,016	3,362
192.04	3,022	3,392
192.05	3,029	3,423
192.06	3,036	3,453
192.07	3,043	3,483
192.08	3,050	3,514
192.09	3,057	3,544
192.10	3,064	3,575
192.11	3,070	3,606
192.12	3,077	3,636
192.13	3,084	3,667
192.14	3,091	3,698
192.15	3,098	3,729
192.16	3,105	3,760
192.17	3,112	3,791
192.18	3,118	3,822
192.19	3,125	3,853
192.20	3,132	3,885
192.21	3,139	3,916
192.22	3,146	3,948
192.23	3,153	3,979
192.24	3,160	4,011
192.25	3,167	4,042
192.26	3,173	4,074
192.27	3,180	4,106
192.28	3,187	4,137
192.29	3,194	4,169
192.30	3,201	4,201
192.31	3,208	4,233
192.32	3,215	4,266
192.33	3,221	4,298
192.34	3,228	4,330
192.35	3,235	4,362
192.36	3,242	4,395
192.37	3,249	4,427
192.38	3,256	4,460
192.39	3,263	4,492
192.40	3,269	4,525
192.41	3,276	4,558
192.42	3,283	4,590
192.43	3,290	4,623
192.44	3,297	4,656
192.45	3,304	4,689
192.46	3,311	4,722
192.47	3,317	4,755
192.48	3,324	4,789
192.49	3,331	4,822
192.50	3,338	4,855
192.51	3,345	4,889
192.52	3,352	4,922
192.53	3,359	4,956
192.54	3,365	4,989
192.55	3,372	5,023
192.56	3,379	5,057
192.57	3,386	5,091

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.58	3,393	5,124
192.59	3,400	5,158
192.60	3,407	5,192
192.61	3,413	5,227
192.62	3,420	5,261
192.63	3,427	5,295
192.64	3,434	5,329
192.65	3,441	5,364
192.66	3,448	5,398
192.67	3,455	5,433
192.68	3,461	5,467
192.69	3,468	5,502
192.70	3,475	5,537
192.71	3,482	5,571
192.72	3,489	5,606
192.73	3,496	5,641
192.74	3,503	5,676
192.75	3,510	5,711
192.76	3,516	5,746
192.77	3,523	5,782
192.78	3,530	5,817
192.79	3,537	5,852
192.80	3,544	5,888
192.81	3,551	5,923
192.82	3,558	5,959
192.83	3,564	5,994
192.84	3,571	6,030
192.85	3,578	6,066
192.86	3,585	6,101
192.87	3,592	6,137
192.88	3,599	6,173
192.89	3,606	6,209
192.90	3,612	6,245
192.91	3,619	6,281
192.92	3,626	6,318
192.93	3,633	6,354
192.94	3,640	6,390
192.95	3,647	6,427
192.96	3,654	6,463
192.97	3,660	6,500
192.98	3,667	6,537
192.99	3,674	6,573
193.00	3,681	6,610
193.01	3,688	6,647
193.02	3,696	6,684
193.03	3,703	6,721
193.04	3,711	6,758
193.05	3,718	6,795
193.06	3,726	6,832
193.07	3,733	6,869
193.08	3,740	6,907
193.09	3,748	6,944
193.10	3,755	6,982
193.11	3,763	7,019
193.12	3,770	7,057
193.13	3,778	7,095
193.14	3,785	7,133
193.15	3,792	7,171
193.16	3,800	7,208
193.17	3,807	7,247
193.18	3,815	7,285
193.19	3,822	7,323
193.20	3,830	7,361
193.21	3,837	7,399
193.22	3,844	7,438
193.23	3,852	7,476
193.24	3,859	7,515
193.25	3,867	7,553
193.26	3,874	7,592
193.27	3,882	7,631
193.28	3,889	7,670
193.29	3,896	7,709
193.30	3,904	7,748
193.31	3,911	7,787
193.32	3,919	7,826
193.33	3,926	7,865
193.34	3,934	7,904
193.35	3,941	7,944
193.36	3,948	7,983
193.37	3,956	8,023
193.38	3,963	8,062
193.39	3,971	8,102
193.40	3,978	8,142
193.41	3,986	8,182
193.42	3,993	8,222
193.43	4,000	8,262
193.44	4,008	8,302
193.45	4,015	8,342
193.46	4,023	8,382
193.47	4,030	8,422
193.48	4,038	8,462
193.49	4,045	8,503
193.50	4,053	8,543
193.51	4,060	8,584
193.52	4,067	8,625
193.53	4,075	8,665
193.54	4,082	8,706
193.55	4,090	8,747
193.56	4,097	8,788
193.57	4,105	8,829
193.58	4,112	8,870
193.59	4,119	8,911
193.60	4,127	8,952
193.61	4,134	8,994

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.62	4,142	9,035
193.63	4,149	9,076
193.64	4,157	9,118
193.65	4,164	9,160
193.66	4,171	9,201
193.67	4,179	9,243
193.68	4,186	9,285
193.69	4,194	9,327
193.70	4,201	9,369
193.71	4,209	9,411
193.72	4,216	9,453
193.73	4,223	9,495
193.74	4,231	9,537
193.75	4,238	9,580
193.76	4,246	9,622
193.77	4,253	9,665
193.78	4,261	9,707
193.79	4,268	9,750
193.80	4,275	9,793
193.81	4,283	9,835
193.82	4,290	9,878
193.83	4,298	9,921
193.84	4,305	9,964
193.85	4,313	10,007
193.86	4,320	10,050
193.87	4,327	10,094
193.88	4,335	10,137
193.89	4,342	10,180
193.90	4,350	10,224
193.91	4,357	10,267
193.92	4,365	10,311
193.93	4,372	10,355
193.94	4,379	10,398
193.95	4,387	10,442
193.96	4,394	10,486
193.97	4,402	10,530
193.98	4,409	10,574
193.99	4,417	10,618
194.00	4,424	10,663
194.01	4,432	10,707
194.02	4,440	10,751
194.03	4,448	10,796
194.04	4,456	10,840
194.05	4,464	10,885
194.06	4,472	10,929
194.07	4,480	10,974
194.08	4,488	11,019
194.09	4,496	11,064
194.10	4,504	11,109
194.11	4,512	11,154
194.12	4,520	11,199
194.13	4,528	11,244
194.14	4,536	11,290
194.15	4,544	11,335
194.16	4,552	11,381
194.17	4,560	11,426
194.18	4,568	11,472
194.19	4,576	11,517
194.20	4,584	11,563
194.21	4,592	11,609
194.22	4,600	11,655
194.23	4,608	11,701
194.24	4,616	11,747
194.25	4,624	11,793
194.26	4,632	11,840
194.27	4,640	11,886
194.28	4,648	11,933
194.29	4,656	11,979
194.30	4,664	12,026
194.31	4,672	12,072
194.32	4,680	12,119
194.33	4,688	12,166
194.34	4,696	12,213
194.35	4,704	12,260
194.36	4,712	12,307
194.37	4,720	12,354
194.38	4,728	12,401
194.39	4,736	12,449
194.40	4,744	12,496
194.41	4,752	12,543
194.42	4,760	12,591
194.43	4,768	12,639
194.44	4,776	12,686
194.45	4,784	12,734
194.46	4,792	12,782
194.47	4,800	12,830
194.48	4,808	12,878
194.49	4,816	12,926
194.50	4,824	12,974
194.51	4,831	13,023
194.52	4,839	13,071
194.53	4,847	13,119
194.54	4,855	13,168
194.55	4,863	13,217
194.56	4,871	13,265
194.57	4,879	13,314
194.58	4,887	13,363
194.59	4,895	13,412
194.60	4,903	13,461
194.61	4,911	13,510
194.62	4,919	13,559
194.63	4,927	13,608
194.64	4,935	13,657
194.65	4,943	13,707

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.66	4,951	13,756
194.67	4,959	13,806
194.68	4,967	13,856
194.69	4,975	13,905
194.70	4,983	13,955
194.71	4,991	14,005
194.72	4,999	14,055
194.73	5,007	14,105
194.74	5,015	14,155
194.75	5,023	14,205
194.76	5,031	14,255
194.77	5,039	14,306
194.78	5,047	14,356
194.79	5,055	14,407
194.80	5,063	14,457
194.81	5,071	14,508
194.82	5,079	14,559
194.83	5,087	14,610
194.84	5,095	14,661
194.85	5,103	14,712
194.86	5,111	14,763
194.87	5,119	14,814
194.88	5,127	14,865
194.89	5,135	14,916
194.90	5,143	14,968
194.91	5,151	15,019
194.92	5,159	15,071
194.93	5,167	15,122
194.94	5,175	15,174
194.95	5,183	15,226
194.96	5,191	15,278
194.97	5,199	15,330
194.98	5,207	15,382
194.99	5,215	15,434
195.00	5,223	15,486
195.01	5,240	15,538
195.02	5,257	15,591
195.03	5,274	15,643
195.04	5,290	15,696
195.05	5,307	15,749
195.06	5,324	15,802
195.07	5,341	15,856
195.08	5,358	15,909
195.09	5,375	15,963
195.10	5,391	16,017
195.11	5,408	16,071
195.12	5,425	16,125
195.13	5,442	16,179
195.14	5,459	16,234
195.15	5,476	16,288
195.16	5,492	16,343
195.17	5,509	16,398
195.18	5,526	16,453
195.19	5,543	16,509
195.20	5,560	16,564
195.21	5,577	16,620
195.22	5,593	16,676
195.23	5,610	16,732
195.24	5,627	16,788
195.25	**5,644**	**16,844**

Summary for Pond B-36B: Basin #36B

Inflow Area = 2.469 ac, 46.54% Impervious, Inflow Depth = 4.25" for Future 10 yr event
Inflow = 10.59 cfs @ 12.17 hrs, Volume= 0.874 af
Outflow = 7.90 cfs @ 12.26 hrs, Volume= 0.766 af, Atten= 25%, Lag= 5.6 min
Primary = 7.90 cfs @ 12.26 hrs, Volume= 0.766 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 194.04' @ 12.27 hrs Surf.Area= 4,577 sf Storage= 10,647 cf

Plug-Flow detention time= 122.2 min calculated for 0.766 af (88% of inflow)
Center-of-Mass det. time= 61.2 min (844.6 - 783.5)

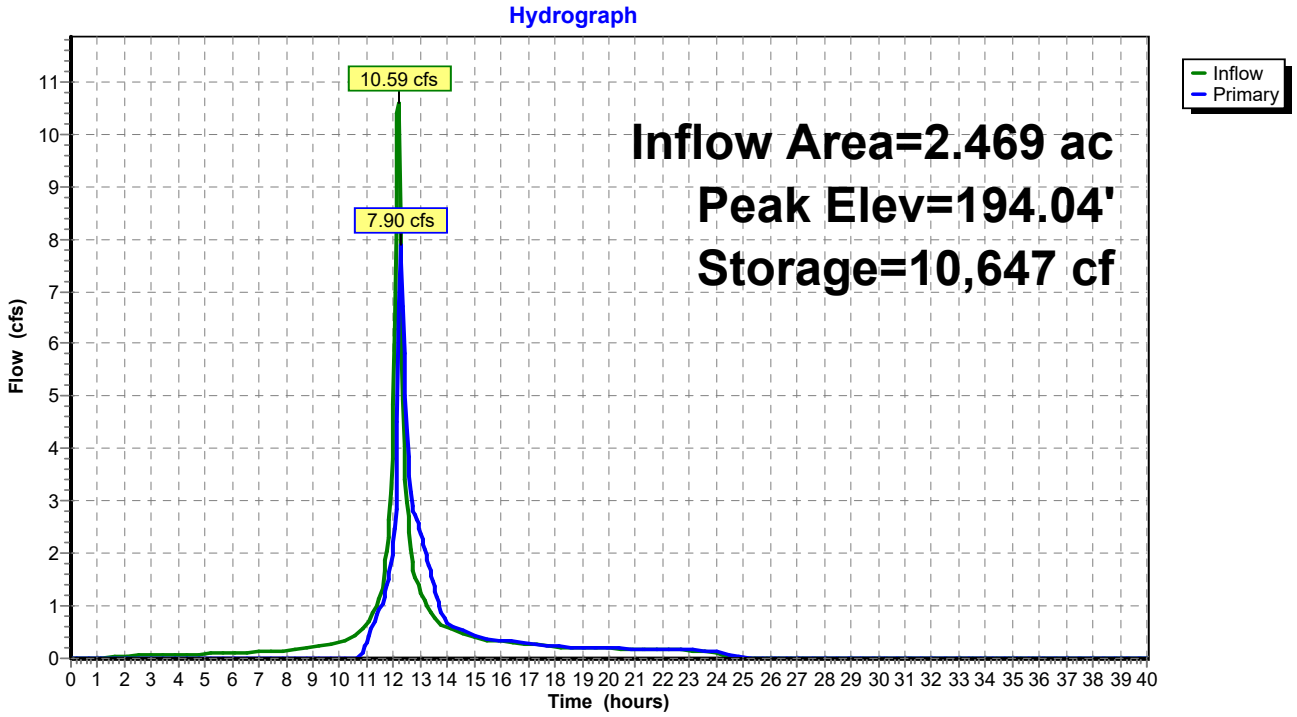
Volume	Invert	Avail.Storage	Storage Description
#1	190.50'	16,864 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.50	0	0	0
191.00	2,110	528	528
192.00	2,893	2,502	3,029
193.00	3,730	3,312	6,341
194.00	4,547	4,139	10,479
195.00	5,356	4,952	15,431
195.25	6,113	1,434	16,864

Device	Routing	Invert	Outlet Devices
#1	Primary	190.50'	**18.0" Round Culvert** L= 82.0' Ke= 0.500 Inlet / Outlet Invert= 190.50' / 190.10' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.53'	**36.0" W x 2.5" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.55'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.95'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=7.76 cfs @ 12.26 hrs HW=194.03' (Free Discharge)
- **1=Culvert** (Passes 7.76 cfs of 12.76 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 3.55 cfs @ 5.68 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 4.20 cfs @ 2.26 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-36B: Basin #36B



Stage-Discharge for Pond B-36B: Basin #36B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.50	0.00	191.02	0.00	191.54	0.00	192.06	0.00
190.51	0.00	191.03	0.00	191.55	0.00	192.07	0.00
190.52	0.00	191.04	0.00	191.56	0.00	192.08	0.00
190.53	0.00	191.05	0.00	191.57	0.00	192.09	0.00
190.54	0.00	191.06	0.00	191.58	0.00	192.10	0.00
190.55	0.00	191.07	0.00	191.59	0.00	192.11	0.00
190.56	0.00	191.08	0.00	191.60	0.00	192.12	0.00
190.57	0.00	191.09	0.00	191.61	0.00	192.13	0.00
190.58	0.00	191.10	0.00	191.62	0.00	192.14	0.00
190.59	0.00	191.11	0.00	191.63	0.00	192.15	0.00
190.60	0.00	191.12	0.00	191.64	0.00	192.16	0.00
190.61	0.00	191.13	0.00	191.65	0.00	192.17	0.00
190.62	0.00	191.14	0.00	191.66	0.00	192.18	0.00
190.63	0.00	191.15	0.00	191.67	0.00	192.19	0.00
190.64	0.00	191.16	0.00	191.68	0.00	192.20	0.00
190.65	0.00	191.17	0.00	191.69	0.00	192.21	0.00
190.66	0.00	191.18	0.00	191.70	0.00	192.22	0.00
190.67	0.00	191.19	0.00	191.71	0.00	192.23	0.00
190.68	0.00	191.20	0.00	191.72	0.00	192.24	0.00
190.69	0.00	191.21	0.00	191.73	0.00	192.25	0.00
190.70	0.00	191.22	0.00	191.74	0.00	192.26	0.00
190.71	0.00	191.23	0.00	191.75	0.00	192.27	0.00
190.72	0.00	191.24	0.00	191.76	0.00	192.28	0.00
190.73	0.00	191.25	0.00	191.77	0.00	192.29	0.00
190.74	0.00	191.26	0.00	191.78	0.00	192.30	0.00
190.75	0.00	191.27	0.00	191.79	0.00	192.31	0.00
190.76	0.00	191.28	0.00	191.80	0.00	192.32	0.00
190.77	0.00	191.29	0.00	191.81	0.00	192.33	0.00
190.78	0.00	191.30	0.00	191.82	0.00	192.34	0.00
190.79	0.00	191.31	0.00	191.83	0.00	192.35	0.00
190.80	0.00	191.32	0.00	191.84	0.00	192.36	0.00
190.81	0.00	191.33	0.00	191.85	0.00	192.37	0.00
190.82	0.00	191.34	0.00	191.86	0.00	192.38	0.00
190.83	0.00	191.35	0.00	191.87	0.00	192.39	0.00
190.84	0.00	191.36	0.00	191.88	0.00	192.40	0.00
190.85	0.00	191.37	0.00	191.89	0.00	192.41	0.00
190.86	0.00	191.38	0.00	191.90	0.00	192.42	0.00
190.87	0.00	191.39	0.00	191.91	0.00	192.43	0.00
190.88	0.00	191.40	0.00	191.92	0.00	192.44	0.00
190.89	0.00	191.41	0.00	191.93	0.00	192.45	0.00
190.90	0.00	191.42	0.00	191.94	0.00	192.46	0.00
190.91	0.00	191.43	0.00	191.95	0.00	192.47	0.00
190.92	0.00	191.44	0.00	191.96	0.00	192.48	0.00
190.93	0.00	191.45	0.00	191.97	0.00	192.49	0.00
190.94	0.00	191.46	0.00	191.98	0.00	192.50	0.00
190.95	0.00	191.47	0.00	191.99	0.00	192.51	0.00
190.96	0.00	191.48	0.00	192.00	0.00	192.52	0.00
190.97	0.00	191.49	0.00	192.01	0.00	192.53	0.00
190.98	0.00	191.50	0.00	192.02	0.00	192.54	0.01
190.99	0.00	191.51	0.00	192.03	0.00	192.55	0.03
191.00	0.00	191.52	0.00	192.04	0.00	192.56	0.05
191.01	0.00	191.53	0.00	192.05	0.00	192.57	0.08

Stage-Discharge for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.58	0.11	193.10	2.05	193.62	3.23	194.14	9.44
192.59	0.14	193.11	2.07	193.63	3.30	194.15	9.60
192.60	0.18	193.12	2.09	193.64	3.37	194.16	9.76
192.61	0.22	193.13	2.12	193.65	3.44	194.17	9.92
192.62	0.26	193.14	2.14	193.66	3.52	194.18	10.08
192.63	0.30	193.15	2.16	193.67	3.60	194.19	10.24
192.64	0.35	193.16	2.18	193.68	3.69	194.20	10.40
192.65	0.40	193.17	2.20	193.69	3.77	194.21	10.56
192.66	0.45	193.18	2.22	193.70	3.86	194.22	10.72
192.67	0.50	193.19	2.24	193.71	3.95	194.23	10.89
192.68	0.56	193.20	2.26	193.72	4.04	194.24	11.05
192.69	0.62	193.21	2.28	193.73	4.14	194.25	11.22
192.70	0.67	193.22	2.30	193.74	4.24	194.26	11.38
192.71	0.74	193.23	2.32	193.75	4.34	194.27	11.55
192.72	0.80	193.24	2.34	193.76	4.44	194.28	11.72
192.73	0.86	193.25	2.36	193.77	4.54	194.29	11.89
192.74	0.93	193.26	2.38	193.78	4.65	194.30	12.06
192.75	0.98	193.27	2.40	193.79	4.75	194.31	12.23
192.76	1.03	193.28	2.42	193.80	4.86	194.32	12.40
192.77	1.08	193.29	2.43	193.81	4.97	194.33	12.58
192.78	1.12	193.30	2.45	193.82	5.09	194.34	12.75
192.79	1.16	193.31	2.47	193.83	5.20	194.35	12.93
192.80	1.20	193.32	2.49	193.84	5.32	194.36	13.10
192.81	1.24	193.33	2.51	193.85	5.43	194.37	13.28
192.82	1.28	193.34	2.53	193.86	5.55	194.38	13.46
192.83	1.32	193.35	2.54	193.87	5.67	194.39	13.63
192.84	1.35	193.36	2.56	193.88	5.80	194.40	13.70
192.85	1.38	193.37	2.58	193.89	5.92	194.41	13.73
192.86	1.42	193.38	2.60	193.90	6.05	194.42	13.75
192.87	1.45	193.39	2.61	193.91	6.17	194.43	13.77
192.88	1.48	193.40	2.63	193.92	6.30	194.44	13.80
192.89	1.51	193.41	2.65	193.93	6.43	194.45	13.82
192.90	1.54	193.42	2.67	193.94	6.56	194.46	13.85
192.91	1.57	193.43	2.68	193.95	6.69	194.47	13.87
192.92	1.60	193.44	2.70	193.96	6.83	194.48	13.90
192.93	1.63	193.45	2.72	193.97	6.96	194.49	13.92
192.94	1.66	193.46	2.73	193.98	7.10	194.50	13.94
192.95	1.68	193.47	2.75	193.99	7.24	194.51	13.97
192.96	1.71	193.48	2.77	194.00	7.38	194.52	13.99
192.97	1.74	193.49	2.78	194.01	7.52	194.53	14.02
192.98	1.76	193.50	2.80	194.02	7.66	194.54	14.04
192.99	1.79	193.51	2.81	194.03	7.80	194.55	14.06
193.00	1.81	193.52	2.83	194.04	7.94	194.56	14.09
193.01	1.84	193.53	2.85	194.05	8.09	194.57	14.11
193.02	1.86	193.54	2.86	194.06	8.24	194.58	14.13
193.03	1.89	193.55	2.88	194.07	8.38	194.59	14.16
193.04	1.91	193.56	2.91	194.08	8.53	194.60	14.18
193.05	1.94	193.57	2.95	194.09	8.68	194.61	14.21
193.06	1.96	193.58	2.99	194.10	8.83	194.62	14.23
193.07	1.98	193.59	3.05	194.11	8.98	194.63	14.25
193.08	2.00	193.60	3.10	194.12	9.14	194.64	14.28
193.09	2.03	193.61	3.16	194.13	9.29	194.65	14.30

Stage-Discharge for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Primary (cfs)
194.66	14.32
194.67	14.35
194.68	14.37
194.69	14.39
194.70	14.42
194.71	14.44
194.72	14.46
194.73	14.49
194.74	14.51
194.75	14.53
194.76	14.56
194.77	14.58
194.78	14.60
194.79	14.62
194.80	14.65
194.81	14.67
194.82	14.69
194.83	14.72
194.84	14.74
194.85	14.76
194.86	14.78
194.87	14.81
194.88	14.83
194.89	14.85
194.90	14.87
194.91	14.90
194.92	14.92
194.93	14.94
194.94	14.96
194.95	14.99
194.96	15.13
194.97	15.36
194.98	15.66
194.99	16.01
195.00	16.41
195.01	16.84
195.02	17.32
195.03	17.82
195.04	18.36
195.05	18.93
195.06	19.52
195.07	20.14
195.08	20.79
195.09	21.47
195.10	22.16
195.11	22.89
195.12	23.63
195.13	24.40
195.14	25.18
195.15	25.99
195.16	26.86
195.17	27.75
195.18	28.67
195.19	29.62
195.20	30.59
195.21	31.58
195.22	32.60
195.23	33.65
195.24	34.72
195.25	**35.81**

Stage-Area-Storage for Pond B-36B: Basin #36B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.50	0	0	191.02	2,126	570
190.51	42	0	191.03	2,133	591
190.52	84	1	191.04	2,141	613
190.53	127	2	191.05	2,149	634
190.54	169	3	191.06	2,157	656
190.55	211	5	191.07	2,165	677
190.56	253	8	191.08	2,173	699
190.57	295	10	191.09	2,180	721
190.58	338	14	191.10	2,188	742
190.59	380	17	191.11	2,196	764
190.60	422	21	191.12	2,204	786
190.61	464	26	191.13	2,212	808
190.62	506	30	191.14	2,220	831
190.63	549	36	191.15	2,227	853
190.64	591	41	191.16	2,235	875
190.65	633	47	191.17	2,243	898
190.66	675	54	191.18	2,251	920
190.67	717	61	191.19	2,259	943
190.68	760	68	191.20	2,267	965
190.69	802	76	191.21	2,274	988
190.70	844	84	191.22	2,282	1,011
190.71	886	93	191.23	2,290	1,034
190.72	928	102	191.24	2,298	1,056
190.73	971	112	191.25	2,306	1,079
190.74	1,013	122	191.26	2,314	1,103
190.75	1,055	132	191.27	2,321	1,126
190.76	1,097	143	191.28	2,329	1,149
190.77	1,139	154	191.29	2,337	1,172
190.78	1,182	165	191.30	2,345	1,196
190.79	1,224	177	191.31	2,353	1,219
190.80	1,266	190	191.32	2,361	1,243
190.81	1,308	203	191.33	2,368	1,266
190.82	1,350	216	191.34	2,376	1,290
190.83	1,393	230	191.35	2,384	1,314
190.84	1,435	244	191.36	2,392	1,338
190.85	1,477	258	191.37	2,400	1,362
190.86	1,519	273	191.38	2,408	1,386
190.87	1,561	289	191.39	2,415	1,410
190.88	1,604	305	191.40	2,423	1,434
190.89	1,646	321	191.41	2,431	1,458
190.90	1,688	338	191.42	2,439	1,483
190.91	1,730	355	191.43	2,447	1,507
190.92	1,772	372	191.44	2,455	1,532
190.93	1,815	390	191.45	2,462	1,556
190.94	1,857	408	191.46	2,470	1,581
190.95	1,899	427	191.47	2,478	1,606
190.96	1,941	446	191.48	2,486	1,631
190.97	1,983	466	191.49	2,494	1,655
190.98	2,026	486	191.50	2,502	1,680
190.99	2,068	507	191.51	2,509	1,705
191.00	2,110	528	191.52	2,517	1,731
191.01	2,118	549	191.53	2,525	1,756

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.54	2,533	1,781
191.55	2,541	1,806
191.56	2,548	1,832
191.57	2,556	1,857
191.58	2,564	1,883
191.59	2,572	1,909
191.60	2,580	1,934
191.61	2,588	1,960
191.62	2,595	1,986
191.63	2,603	2,012
191.64	2,611	2,038
191.65	2,619	2,064
191.66	2,627	2,091
191.67	2,635	2,117
191.68	2,642	2,143
191.69	2,650	2,170
191.70	2,658	2,196
191.71	2,666	2,223
191.72	2,674	2,250
191.73	2,682	2,276
191.74	2,689	2,303
191.75	2,697	2,330
191.76	2,705	2,357
191.77	2,713	2,384
191.78	2,721	2,411
191.79	2,729	2,439
191.80	2,736	2,466
191.81	2,744	2,493
191.82	2,752	2,521
191.83	2,760	2,549
191.84	2,768	2,576
191.85	2,776	2,604
191.86	2,783	2,632
191.87	2,791	2,660
191.88	2,799	2,687
191.89	2,807	2,716
191.90	2,815	2,744
191.91	2,823	2,772
191.92	2,830	2,800
191.93	2,838	2,828
191.94	2,846	2,857
191.95	2,854	2,885
191.96	2,862	2,914
191.97	2,870	2,943
191.98	2,877	2,971
191.99	2,885	3,000
192.00	2,893	3,029
192.01	2,901	3,058
192.02	2,910	3,087
192.03	2,918	3,116
192.04	2,926	3,145
192.05	2,935	3,175
192.06	2,943	3,204
192.07	2,952	3,234
192.08	2,960	3,263
192.09	2,968	3,293
192.10	2,977	3,322
192.11	2,985	3,352
192.12	2,993	3,382
192.13	3,002	3,412
192.14	3,010	3,442
192.15	3,019	3,472
192.16	3,027	3,503
192.17	3,035	3,533
192.18	3,044	3,563
192.19	3,052	3,594
192.20	3,060	3,624
192.21	3,069	3,655
192.22	3,077	3,686
192.23	3,086	3,717
192.24	3,094	3,747
192.25	3,102	3,778
192.26	3,111	3,809
192.27	3,119	3,841
192.28	3,127	3,872
192.29	3,136	3,903
192.30	3,144	3,935
192.31	3,152	3,966
192.32	3,161	3,998
192.33	3,169	4,029
192.34	3,178	4,061
192.35	3,186	4,093
192.36	3,194	4,125
192.37	3,203	4,157
192.38	3,211	4,189
192.39	3,219	4,221
192.40	3,228	4,253
192.41	3,236	4,285
192.42	3,245	4,318
192.43	3,253	4,350
192.44	3,261	4,383
192.45	3,270	4,416
192.46	3,278	4,448
192.47	3,286	4,481
192.48	3,295	4,514
192.49	3,303	4,547
192.50	3,312	4,580
192.51	3,320	4,613
192.52	3,328	4,647
192.53	3,337	4,680
192.54	3,345	4,713
192.55	3,353	4,747
192.56	3,362	4,780
192.57	3,370	4,814

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.58	3,378	4,848	193.10	3,812	6,718
192.59	3,387	4,882	193.11	3,820	6,756
192.60	3,395	4,915	193.12	3,828	6,794
192.61	3,404	4,949	193.13	3,836	6,832
192.62	3,412	4,984	193.14	3,844	6,871
192.63	3,420	5,018	193.15	3,853	6,909
192.64	3,429	5,052	193.16	3,861	6,948
192.65	3,437	5,086	193.17	3,869	6,986
192.66	3,445	5,121	193.18	3,877	7,025
192.67	3,454	5,155	193.19	3,885	7,064
192.68	3,462	5,190	193.20	3,893	7,103
192.69	3,471	5,224	193.21	3,902	7,142
192.70	3,479	5,259	193.22	3,910	7,181
192.71	3,487	5,294	193.23	3,918	7,220
192.72	3,496	5,329	193.24	3,926	7,259
192.73	3,504	5,364	193.25	3,934	7,299
192.74	3,512	5,399	193.26	3,942	7,338
192.75	3,521	5,434	193.27	3,951	7,377
192.76	3,529	5,469	193.28	3,959	7,417
192.77	3,537	5,505	193.29	3,967	7,457
192.78	3,546	5,540	193.30	3,975	7,496
192.79	3,554	5,576	193.31	3,983	7,536
192.80	3,563	5,611	193.32	3,991	7,576
192.81	3,571	5,647	193.33	4,000	7,616
192.82	3,579	5,683	193.34	4,008	7,656
192.83	3,588	5,718	193.35	4,016	7,696
192.84	3,596	5,754	193.36	4,024	7,736
192.85	3,604	5,790	193.37	4,032	7,777
192.86	3,613	5,827	193.38	4,040	7,817
192.87	3,621	5,863	193.39	4,049	7,857
192.88	3,630	5,899	193.40	4,057	7,898
192.89	3,638	5,935	193.41	4,065	7,938
192.90	3,646	5,972	193.42	4,073	7,979
192.91	3,655	6,008	193.43	4,081	8,020
192.92	3,663	6,045	193.44	4,089	8,061
192.93	3,671	6,081	193.45	4,098	8,102
192.94	3,680	6,118	193.46	4,106	8,143
192.95	3,688	6,155	193.47	4,114	8,184
192.96	3,697	6,192	193.48	4,122	8,225
192.97	3,705	6,229	193.49	4,130	8,266
192.98	3,713	6,266	193.50	4,139	8,308
192.99	3,722	6,303	193.51	4,147	8,349
193.00	3,730	6,341	193.52	4,155	8,391
193.01	3,738	6,378	193.53	4,163	8,432
193.02	3,746	6,415	193.54	4,171	8,474
193.03	3,755	6,453	193.55	4,179	8,516
193.04	3,763	6,490	193.56	4,188	8,557
193.05	3,771	6,528	193.57	4,196	8,599
193.06	3,779	6,566	193.58	4,204	8,641
193.07	3,787	6,604	193.59	4,212	8,683
193.08	3,795	6,642	193.60	4,220	8,726
193.09	3,804	6,680	193.61	4,228	8,768

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.62	4,237	8,810
193.63	4,245	8,853
193.64	4,253	8,895
193.65	4,261	8,938
193.66	4,269	8,980
193.67	4,277	9,023
193.68	4,286	9,066
193.69	4,294	9,109
193.70	4,302	9,152
193.71	4,310	9,195
193.72	4,318	9,238
193.73	4,326	9,281
193.74	4,335	9,324
193.75	4,343	9,368
193.76	4,351	9,411
193.77	4,359	9,455
193.78	4,367	9,498
193.79	4,375	9,542
193.80	4,384	9,586
193.81	4,392	9,630
193.82	4,400	9,674
193.83	4,408	9,718
193.84	4,416	9,762
193.85	4,424	9,806
193.86	4,433	9,850
193.87	4,441	9,895
193.88	4,449	9,939
193.89	4,457	9,984
193.90	4,465	10,028
193.91	4,473	10,073
193.92	4,482	10,118
193.93	4,490	10,163
193.94	4,498	10,208
193.95	4,506	10,253
193.96	4,514	10,298
193.97	4,522	10,343
193.98	4,531	10,388
193.99	4,539	10,434
194.00	4,547	10,479
194.01	4,555	10,525
194.02	4,563	10,570
194.03	4,571	10,616
194.04	4,579	10,662
194.05	4,587	10,707
194.06	4,596	10,753
194.07	4,604	10,799
194.08	4,612	10,845
194.09	4,620	10,892
194.10	4,628	10,938
194.11	4,636	10,984
194.12	4,644	11,030
194.13	4,652	11,077
194.14	4,660	11,124
194.15	4,668	11,170
194.16	4,676	11,217
194.17	4,685	11,264
194.18	4,693	11,311
194.19	4,701	11,358
194.20	4,709	11,405
194.21	4,717	11,452
194.22	4,725	11,499
194.23	4,733	11,546
194.24	4,741	11,594
194.25	4,749	11,641
194.26	4,757	11,689
194.27	4,765	11,736
194.28	4,774	11,784
194.29	4,782	11,832
194.30	4,790	11,880
194.31	4,798	11,927
194.32	4,806	11,975
194.33	4,814	12,024
194.34	4,822	12,072
194.35	4,830	12,120
194.36	4,838	12,168
194.37	4,846	12,217
194.38	4,854	12,265
194.39	4,863	12,314
194.40	4,871	12,363
194.41	4,879	12,411
194.42	4,887	12,460
194.43	4,895	12,509
194.44	4,903	12,558
194.45	4,911	12,607
194.46	4,919	12,656
194.47	4,927	12,705
194.48	4,935	12,755
194.49	4,943	12,804
194.50	4,952	12,854
194.51	4,960	12,903
194.52	4,968	12,953
194.53	4,976	13,003
194.54	4,984	13,052
194.55	4,992	13,102
194.56	5,000	13,152
194.57	5,008	13,202
194.58	5,016	13,252
194.59	5,024	13,303
194.60	5,032	13,353
194.61	5,040	13,403
194.62	5,049	13,454
194.63	5,057	13,504
194.64	5,065	13,555
194.65	5,073	13,605

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.66	5,081	13,656
194.67	5,089	13,707
194.68	5,097	13,758
194.69	5,105	13,809
194.70	5,113	13,860
194.71	5,121	13,911
194.72	5,129	13,963
194.73	5,138	14,014
194.74	5,146	14,065
194.75	5,154	14,117
194.76	5,162	14,168
194.77	5,170	14,220
194.78	5,178	14,272
194.79	5,186	14,324
194.80	5,194	14,375
194.81	5,202	14,427
194.82	5,210	14,480
194.83	5,218	14,532
194.84	5,227	14,584
194.85	5,235	14,636
194.86	5,243	14,689
194.87	5,251	14,741
194.88	5,259	14,794
194.89	5,267	14,846
194.90	5,275	14,899
194.91	5,283	14,952
194.92	5,291	15,005
194.93	5,299	15,058
194.94	5,307	15,111
194.95	5,316	15,164
194.96	5,324	15,217
194.97	5,332	15,270
194.98	5,340	15,324
194.99	5,348	15,377
195.00	5,356	15,431
195.01	5,386	15,484
195.02	5,417	15,538
195.03	5,447	15,593
195.04	5,477	15,647
195.05	5,507	15,702
195.06	5,538	15,757
195.07	5,568	15,813
195.08	5,598	15,869
195.09	5,629	15,925
195.10	5,659	15,981
195.11	5,689	16,038
195.12	5,719	16,095
195.13	5,750	16,152
195.14	5,780	16,210
195.15	5,810	16,268
195.16	5,840	16,326
195.17	5,871	16,385
195.18	5,901	16,444
195.19	5,931	16,503
195.20	5,962	16,562
195.21	5,992	16,622
195.22	6,022	16,682
195.23	6,052	16,742
195.24	6,083	16,803
195.25	**6,113**	**16,864**

Summary for Pond B-37A: Basin #37A

Inflow Area = 2.154 ac, 39.65% Impervious, Inflow Depth = 4.07" for Future 10 yr event
Inflow = 8.95 cfs @ 12.17 hrs, Volume= 0.731 af
Outflow = 5.37 cfs @ 12.31 hrs, Volume= 0.648 af, Atten= 40%, Lag= 8.2 min
Primary = 5.37 cfs @ 12.31 hrs, Volume= 0.648 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 197.00' @ 12.31 hrs Surf.Area= 5,088 sf Storage= 13,047 cf

Plug-Flow detention time= 222.2 min calculated for 0.648 af (89% of inflow)
Center-of-Mass det. time= 165.1 min (954.6 - 789.4)

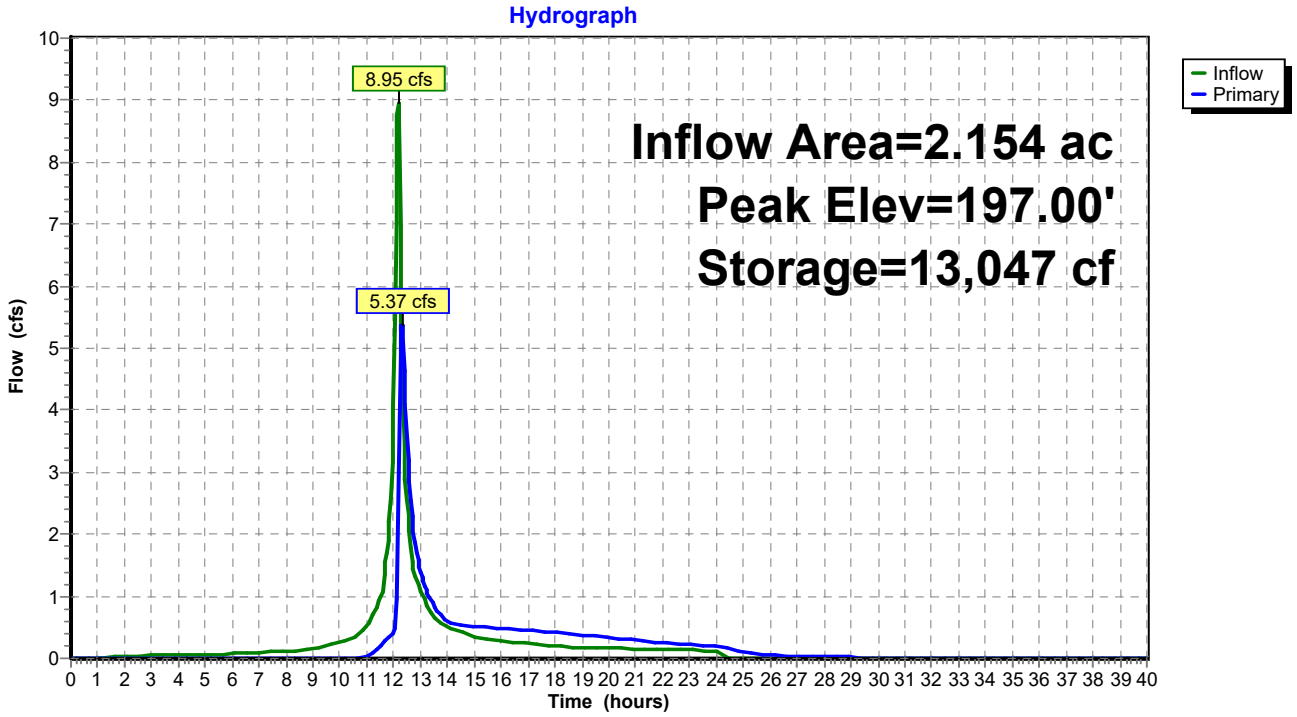
Volume	Invert	Avail.Storage	Storage Description
#1	193.30'	18,546 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
193.30	0	0	0
194.00	2,990	1,046	1,046
195.00	3,633	3,312	4,358
196.00	4,332	3,983	8,340
197.00	5,089	4,711	13,051
198.00	5,901	5,495	18,546

Device	Routing	Invert	Outlet Devices
#1	Primary	192.65'	**18.0" Round Culvert** L= 265.0' Ke= 0.500 Inlet / Outlet Invert= 192.65' / 191.33' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	194.77'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	196.48'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=5.32 cfs @ 12.31 hrs HW=197.00' (Free Discharge)
- **1=Culvert** (Passes 5.32 cfs of 11.49 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.60 cfs @ 6.91 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 4.72 cfs @ 2.35 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-37A: Basin #37A



Stage-Discharge for Pond B-37A: Basin #37A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.30	0.00	193.82	0.00	194.34	0.00	194.86	0.02
193.31	0.00	193.83	0.00	194.35	0.00	194.87	0.02
193.32	0.00	193.84	0.00	194.36	0.00	194.88	0.03
193.33	0.00	193.85	0.00	194.37	0.00	194.89	0.03
193.34	0.00	193.86	0.00	194.38	0.00	194.90	0.04
193.35	0.00	193.87	0.00	194.39	0.00	194.91	0.04
193.36	0.00	193.88	0.00	194.40	0.00	194.92	0.05
193.37	0.00	193.89	0.00	194.41	0.00	194.93	0.06
193.38	0.00	193.90	0.00	194.42	0.00	194.94	0.06
193.39	0.00	193.91	0.00	194.43	0.00	194.95	0.07
193.40	0.00	193.92	0.00	194.44	0.00	194.96	0.08
193.41	0.00	193.93	0.00	194.45	0.00	194.97	0.08
193.42	0.00	193.94	0.00	194.46	0.00	194.98	0.09
193.43	0.00	193.95	0.00	194.47	0.00	194.99	0.10
193.44	0.00	193.96	0.00	194.48	0.00	195.00	0.10
193.45	0.00	193.97	0.00	194.49	0.00	195.01	0.11
193.46	0.00	193.98	0.00	194.50	0.00	195.02	0.12
193.47	0.00	193.99	0.00	194.51	0.00	195.03	0.13
193.48	0.00	194.00	0.00	194.52	0.00	195.04	0.13
193.49	0.00	194.01	0.00	194.53	0.00	195.05	0.14
193.50	0.00	194.02	0.00	194.54	0.00	195.06	0.15
193.51	0.00	194.03	0.00	194.55	0.00	195.07	0.15
193.52	0.00	194.04	0.00	194.56	0.00	195.08	0.16
193.53	0.00	194.05	0.00	194.57	0.00	195.09	0.17
193.54	0.00	194.06	0.00	194.58	0.00	195.10	0.17
193.55	0.00	194.07	0.00	194.59	0.00	195.11	0.17
193.56	0.00	194.08	0.00	194.60	0.00	195.12	0.18
193.57	0.00	194.09	0.00	194.61	0.00	195.13	0.18
193.58	0.00	194.10	0.00	194.62	0.00	195.14	0.19
193.59	0.00	194.11	0.00	194.63	0.00	195.15	0.19
193.60	0.00	194.12	0.00	194.64	0.00	195.16	0.20
193.61	0.00	194.13	0.00	194.65	0.00	195.17	0.20
193.62	0.00	194.14	0.00	194.66	0.00	195.18	0.21
193.63	0.00	194.15	0.00	194.67	0.00	195.19	0.21
193.64	0.00	194.16	0.00	194.68	0.00	195.20	0.22
193.65	0.00	194.17	0.00	194.69	0.00	195.21	0.22
193.66	0.00	194.18	0.00	194.70	0.00	195.22	0.22
193.67	0.00	194.19	0.00	194.71	0.00	195.23	0.23
193.68	0.00	194.20	0.00	194.72	0.00	195.24	0.23
193.69	0.00	194.21	0.00	194.73	0.00	195.25	0.24
193.70	0.00	194.22	0.00	194.74	0.00	195.26	0.24
193.71	0.00	194.23	0.00	194.75	0.00	195.27	0.24
193.72	0.00	194.24	0.00	194.76	0.00	195.28	0.25
193.73	0.00	194.25	0.00	194.77	0.00	195.29	0.25
193.74	0.00	194.26	0.00	194.78	0.00	195.30	0.25
193.75	0.00	194.27	0.00	194.79	0.00	195.31	0.26
193.76	0.00	194.28	0.00	194.80	0.00	195.32	0.26
193.77	0.00	194.29	0.00	194.81	0.00	195.33	0.26
193.78	0.00	194.30	0.00	194.82	0.01	195.34	0.27
193.79	0.00	194.31	0.00	194.83	0.01	195.35	0.27
193.80	0.00	194.32	0.00	194.84	0.01	195.36	0.27
193.81	0.00	194.33	0.00	194.85	0.02	195.37	0.28

Stage-Discharge for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.38	0.28	195.90	0.41	196.42	0.51	196.94	4.58
195.39	0.28	195.91	0.41	196.43	0.51	196.95	4.71
195.40	0.29	195.92	0.42	196.44	0.52	196.96	4.84
195.41	0.29	195.93	0.42	196.45	0.52	196.97	4.98
195.42	0.29	195.94	0.42	196.46	0.52	196.98	5.11
195.43	0.30	195.95	0.42	196.47	0.52	196.99	5.24
195.44	0.30	195.96	0.43	196.48	0.52	197.00	5.38
195.45	0.30	195.97	0.43	196.49	0.54	197.01	5.52
195.46	0.30	195.98	0.43	196.50	0.56	197.02	5.66
195.47	0.31	195.99	0.43	196.51	0.59	197.03	5.80
195.48	0.31	196.00	0.43	196.52	0.63	197.04	5.94
195.49	0.31	196.01	0.44	196.53	0.68	197.05	6.08
195.50	0.32	196.02	0.44	196.54	0.72	197.06	6.22
195.51	0.32	196.03	0.44	196.55	0.78	197.07	6.37
195.52	0.32	196.04	0.44	196.56	0.83	197.08	6.51
195.53	0.32	196.05	0.44	196.57	0.89	197.09	6.66
195.54	0.33	196.06	0.45	196.58	0.95	197.10	6.81
195.55	0.33	196.07	0.45	196.59	1.01	197.11	6.95
195.56	0.33	196.08	0.45	196.60	1.08	197.12	7.10
195.57	0.33	196.09	0.45	196.61	1.15	197.13	7.25
195.58	0.34	196.10	0.45	196.62	1.23	197.14	7.41
195.59	0.34	196.11	0.46	196.63	1.30	197.15	7.56
195.60	0.34	196.12	0.46	196.64	1.38	197.16	7.71
195.61	0.34	196.13	0.46	196.65	1.46	197.17	7.87
195.62	0.35	196.14	0.46	196.66	1.54	197.18	8.02
195.63	0.35	196.15	0.46	196.67	1.63	197.19	8.18
195.64	0.35	196.16	0.46	196.68	1.71	197.20	8.34
195.65	0.35	196.17	0.47	196.69	1.80	197.21	8.49
195.66	0.36	196.18	0.47	196.70	1.89	197.22	8.65
195.67	0.36	196.19	0.47	196.71	1.99	197.23	8.81
195.68	0.36	196.20	0.47	196.72	2.08	197.24	8.97
195.69	0.36	196.21	0.47	196.73	2.18	197.25	9.14
195.70	0.37	196.22	0.48	196.74	2.28	197.26	9.30
195.71	0.37	196.23	0.48	196.75	2.38	197.27	9.46
195.72	0.37	196.24	0.48	196.76	2.48	197.28	9.63
195.73	0.37	196.25	0.48	196.77	2.58	197.29	9.79
195.74	0.38	196.26	0.48	196.78	2.69	197.30	9.96
195.75	0.38	196.27	0.49	196.79	2.79	197.31	10.13
195.76	0.38	196.28	0.49	196.80	2.90	197.32	10.30
195.77	0.38	196.29	0.49	196.81	3.01	197.33	10.46
195.78	0.39	196.30	0.49	196.82	3.13	197.34	10.63
195.79	0.39	196.31	0.49	196.83	3.24	197.35	10.81
195.80	0.39	196.32	0.49	196.84	3.35	197.36	10.98
195.81	0.39	196.33	0.50	196.85	3.47	197.37	11.15
195.82	0.39	196.34	0.50	196.86	3.59	197.38	11.32
195.83	0.40	196.35	0.50	196.87	3.71	197.39	11.50
195.84	0.40	196.36	0.50	196.88	3.83	197.40	11.67
195.85	0.40	196.37	0.50	196.89	3.95	197.41	11.85
195.86	0.40	196.38	0.50	196.90	4.07	197.42	12.02
195.87	0.41	196.39	0.51	196.91	4.20	197.43	12.07
195.88	0.41	196.40	0.51	196.92	4.33	197.44	12.09
195.89	0.41	196.41	0.51	196.93	4.45	197.45	12.10

Stage-Discharge for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Primary (cfs)
197.46	12.11
197.47	12.13
197.48	12.14
197.49	12.15
197.50	12.17
197.51	12.18
197.52	12.19
197.53	12.20
197.54	12.22
197.55	12.23
197.56	12.24
197.57	12.26
197.58	12.27
197.59	12.28
197.60	12.29
197.61	12.31
197.62	12.32
197.63	12.33
197.64	12.35
197.65	12.36
197.66	12.37
197.67	12.38
197.68	12.40
197.69	12.41
197.70	12.42
197.71	12.44
197.72	12.45
197.73	12.46
197.74	12.47
197.75	12.49
197.76	12.50
197.77	12.51
197.78	12.52
197.79	12.54
197.80	12.55
197.81	12.56
197.82	12.57
197.83	12.59
197.84	12.60
197.85	12.61
197.86	12.63
197.87	12.64
197.88	12.65
197.89	12.66
197.90	12.68
197.91	12.69
197.92	12.70
197.93	12.71
197.94	12.73
197.95	12.74
197.96	12.87
197.97	13.09
197.98	13.38
197.99	13.73
198.00	**14.11**

Stage-Area-Storage for Pond B-37A: Basin #37A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.30	0	0	193.82	2,221	577
193.31	43	0	193.83	2,264	600
193.32	85	1	193.84	2,307	623
193.33	128	2	193.85	2,349	646
193.34	171	3	193.86	2,392	670
193.35	214	5	193.87	2,435	694
193.36	256	8	193.88	2,477	718
193.37	299	10	193.89	2,520	743
193.38	342	14	193.90	2,563	769
193.39	384	17	193.91	2,606	795
193.40	427	21	193.92	2,648	821
193.41	470	26	193.93	2,691	848
193.42	513	31	193.94	2,734	875
193.43	555	36	193.95	2,776	902
193.44	598	42	193.96	2,819	930
193.45	641	48	193.97	2,862	959
193.46	683	55	193.98	2,905	988
193.47	726	62	193.99	2,947	1,017
193.48	769	69	194.00	2,990	1,046
193.49	812	77	194.01	2,996	1,076
193.50	854	85	194.02	3,003	1,106
193.51	897	94	194.03	3,009	1,136
193.52	940	103	194.04	3,016	1,167
193.53	982	113	194.05	3,022	1,197
193.54	1,025	123	194.06	3,029	1,227
193.55	1,068	133	194.07	3,035	1,257
193.56	1,111	144	194.08	3,041	1,288
193.57	1,153	156	194.09	3,048	1,318
193.58	1,196	167	194.10	3,054	1,349
193.59	1,239	180	194.11	3,061	1,379
193.60	1,281	192	194.12	3,067	1,410
193.61	1,324	205	194.13	3,074	1,441
193.62	1,367	219	194.14	3,080	1,471
193.63	1,410	233	194.15	3,086	1,502
193.64	1,452	247	194.16	3,093	1,533
193.65	1,495	262	194.17	3,099	1,564
193.66	1,538	277	194.18	3,106	1,595
193.67	1,580	292	194.19	3,112	1,626
193.68	1,623	308	194.20	3,119	1,657
193.69	1,666	325	194.21	3,125	1,689
193.70	1,709	342	194.22	3,131	1,720
193.71	1,751	359	194.23	3,138	1,751
193.72	1,794	377	194.24	3,144	1,783
193.73	1,837	395	194.25	3,151	1,814
193.74	1,879	413	194.26	3,157	1,846
193.75	1,922	432	194.27	3,164	1,877
193.76	1,965	452	194.28	3,170	1,909
193.77	2,008	472	194.29	3,176	1,941
193.78	2,050	492	194.30	3,183	1,972
193.79	2,093	513	194.31	3,189	2,004
193.80	2,136	534	194.32	3,196	2,036
193.81	2,178	555	194.33	3,202	2,068

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.34	3,209	2,100
194.35	3,215	2,132
194.36	3,221	2,165
194.37	3,228	2,197
194.38	3,234	2,229
194.39	3,241	2,262
194.40	3,247	2,294
194.41	3,254	2,326
194.42	3,260	2,359
194.43	3,266	2,392
194.44	3,273	2,424
194.45	3,279	2,457
194.46	3,286	2,490
194.47	3,292	2,523
194.48	3,299	2,556
194.49	3,305	2,589
194.50	3,312	2,622
194.51	3,318	2,655
194.52	3,324	2,688
194.53	3,331	2,722
194.54	3,337	2,755
194.55	3,344	2,788
194.56	3,350	2,822
194.57	3,357	2,855
194.58	3,363	2,889
194.59	3,369	2,923
194.60	3,376	2,956
194.61	3,382	2,990
194.62	3,389	3,024
194.63	3,395	3,058
194.64	3,402	3,092
194.65	3,408	3,126
194.66	3,414	3,160
194.67	3,421	3,194
194.68	3,427	3,228
194.69	3,434	3,263
194.70	3,440	3,297
194.71	3,447	3,331
194.72	3,453	3,366
194.73	3,459	3,401
194.74	3,466	3,435
194.75	3,472	3,470
194.76	3,479	3,505
194.77	3,485	3,539
194.78	3,492	3,574
194.79	3,498	3,609
194.80	3,504	3,644
194.81	3,511	3,679
194.82	3,517	3,714
194.83	3,524	3,750
194.84	3,530	3,785
194.85	3,537	3,820
194.86	3,543	3,856
194.87	3,549	3,891
194.88	3,556	3,927
194.89	3,562	3,962
194.90	3,569	3,998
194.91	3,575	4,034
194.92	3,582	4,069
194.93	3,588	4,105
194.94	3,594	4,141
194.95	3,601	4,177
194.96	3,607	4,213
194.97	3,614	4,249
194.98	3,620	4,285
194.99	3,627	4,322
195.00	3,633	4,358
195.01	3,640	4,394
195.02	3,647	4,431
195.03	3,654	4,467
195.04	3,661	4,504
195.05	3,668	4,541
195.06	3,675	4,577
195.07	3,682	4,614
195.08	3,689	4,651
195.09	3,696	4,688
195.10	3,703	4,725
195.11	3,710	4,762
195.12	3,717	4,799
195.13	3,724	4,836
195.14	3,731	4,873
195.15	3,738	4,911
195.16	3,745	4,948
195.17	3,752	4,986
195.18	3,759	5,023
195.19	3,766	5,061
195.20	3,773	5,099
195.21	3,780	5,136
195.22	3,787	5,174
195.23	3,794	5,212
195.24	3,801	5,250
195.25	3,808	5,288
195.26	3,815	5,326
195.27	3,822	5,364
195.28	3,829	5,403
195.29	3,836	5,441
195.30	3,843	5,479
195.31	3,850	5,518
195.32	3,857	5,556
195.33	3,864	5,595
195.34	3,871	5,634
195.35	3,878	5,672
195.36	3,885	5,711
195.37	3,892	5,750

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.38	3,899	5,789	195.90	4,262	7,911
195.39	3,906	5,828	195.91	4,269	7,953
195.40	3,913	5,867	195.92	4,276	7,996
195.41	3,920	5,906	195.93	4,283	8,039
195.42	3,927	5,946	195.94	4,290	8,082
195.43	3,934	5,985	195.95	4,297	8,125
195.44	3,941	6,024	195.96	4,304	8,168
195.45	3,948	6,064	195.97	4,311	8,211
195.46	3,955	6,103	195.98	4,318	8,254
195.47	3,962	6,143	195.99	4,325	8,297
195.48	3,969	6,182	196.00	4,332	8,340
195.49	3,976	6,222	196.01	4,340	8,384
195.50	3,983	6,262	196.02	4,347	8,427
195.51	3,989	6,302	196.03	4,355	8,471
195.52	3,996	6,342	196.04	4,362	8,514
195.53	4,003	6,382	196.05	4,370	8,558
195.54	4,010	6,422	196.06	4,377	8,602
195.55	4,017	6,462	196.07	4,385	8,646
195.56	4,024	6,502	196.08	4,393	8,689
195.57	4,031	6,542	196.09	4,400	8,733
195.58	4,038	6,583	196.10	4,408	8,777
195.59	4,045	6,623	196.11	4,415	8,822
195.60	4,052	6,664	196.12	4,423	8,866
195.61	4,059	6,704	196.13	4,430	8,910
195.62	4,066	6,745	196.14	4,438	8,954
195.63	4,073	6,786	196.15	4,446	8,999
195.64	4,080	6,826	196.16	4,453	9,043
195.65	4,087	6,867	196.17	4,461	9,088
195.66	4,094	6,908	196.18	4,468	9,133
195.67	4,101	6,949	196.19	4,476	9,177
195.68	4,108	6,990	196.20	4,483	9,222
195.69	4,115	7,031	196.21	4,491	9,267
195.70	4,122	7,072	196.22	4,499	9,312
195.71	4,129	7,114	196.23	4,506	9,357
195.72	4,136	7,155	196.24	4,514	9,402
195.73	4,143	7,196	196.25	4,521	9,447
195.74	4,150	7,238	196.26	4,529	9,492
195.75	4,157	7,279	196.27	4,536	9,538
195.76	4,164	7,321	196.28	4,544	9,583
195.77	4,171	7,363	196.29	4,552	9,629
195.78	4,178	7,404	196.30	4,559	9,674
195.79	4,185	7,446	196.31	4,567	9,720
195.80	4,192	7,488	196.32	4,574	9,765
195.81	4,199	7,530	196.33	4,582	9,811
195.82	4,206	7,572	196.34	4,589	9,857
195.83	4,213	7,614	196.35	4,597	9,903
195.84	4,220	7,656	196.36	4,605	9,949
195.85	4,227	7,699	196.37	4,612	9,995
195.86	4,234	7,741	196.38	4,620	10,041
195.87	4,241	7,783	196.39	4,627	10,088
195.88	4,248	7,826	196.40	4,635	10,134
195.89	4,255	7,868	196.41	4,642	10,180

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.42	4,650	10,227	196.94	5,044	12,747
196.43	4,658	10,273	196.95	5,051	12,797
196.44	4,665	10,320	196.96	5,059	12,848
196.45	4,673	10,367	196.97	5,066	12,899
196.46	4,680	10,413	196.98	5,074	12,949
196.47	4,688	10,460	196.99	5,081	13,000
196.48	4,695	10,507	197.00	5,089	13,051
196.49	4,703	10,554	197.01	5,097	13,102
196.50	4,711	10,601	197.02	5,105	13,153
196.51	4,718	10,648	197.03	5,113	13,204
196.52	4,726	10,695	197.04	5,121	13,255
196.53	4,733	10,743	197.05	5,130	13,306
196.54	4,741	10,790	197.06	5,138	13,358
196.55	4,748	10,838	197.07	5,146	13,409
196.56	4,756	10,885	197.08	5,154	13,461
196.57	4,763	10,933	197.09	5,162	13,512
196.58	4,771	10,980	197.10	5,170	13,564
196.59	4,779	11,028	197.11	5,178	13,616
196.60	4,786	11,076	197.12	5,186	13,668
196.61	4,794	11,124	197.13	5,195	13,719
196.62	4,801	11,172	197.14	5,203	13,771
196.63	4,809	11,220	197.15	5,211	13,823
196.64	4,816	11,268	197.16	5,219	13,876
196.65	4,824	11,316	197.17	5,227	13,928
196.66	4,832	11,364	197.18	5,235	13,980
196.67	4,839	11,413	197.19	5,243	14,033
196.68	4,847	11,461	197.20	5,251	14,085
196.69	4,854	11,510	197.21	5,260	14,138
196.70	4,862	11,558	197.22	5,268	14,190
196.71	4,869	11,607	197.23	5,276	14,243
196.72	4,877	11,656	197.24	5,284	14,296
196.73	4,885	11,705	197.25	5,292	14,349
196.74	4,892	11,753	197.26	5,300	14,402
196.75	4,900	11,802	197.27	5,308	14,455
196.76	4,907	11,851	197.28	5,316	14,508
196.77	4,915	11,901	197.29	5,324	14,561
196.78	4,922	11,950	197.30	5,333	14,614
196.79	4,930	11,999	197.31	5,341	14,668
196.80	4,938	12,048	197.32	5,349	14,721
196.81	4,945	12,098	197.33	5,357	14,775
196.82	4,953	12,147	197.34	5,365	14,828
196.83	4,960	12,197	197.35	5,373	14,882
196.84	4,968	12,246	197.36	5,381	14,936
196.85	4,975	12,296	197.37	5,389	14,990
196.86	4,983	12,346	197.38	5,398	15,043
196.87	4,991	12,396	197.39	5,406	15,097
196.88	4,998	12,446	197.40	5,414	15,152
196.89	5,006	12,496	197.41	5,422	15,206
196.90	5,013	12,546	197.42	5,430	15,260
196.91	5,021	12,596	197.43	5,438	15,314
196.92	5,028	12,646	197.44	5,446	15,369
196.93	5,036	12,697	197.45	5,454	15,423

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.46	5,463	15,478
197.47	5,471	15,533
197.48	5,479	15,587
197.49	5,487	15,642
197.50	5,495	15,697
197.51	5,503	15,752
197.52	5,511	15,807
197.53	5,519	15,862
197.54	5,527	15,917
197.55	5,536	15,973
197.56	5,544	16,028
197.57	5,552	16,084
197.58	5,560	16,139
197.59	5,568	16,195
197.60	5,576	16,251
197.61	5,584	16,306
197.62	5,592	16,362
197.63	5,601	16,418
197.64	5,609	16,474
197.65	5,617	16,530
197.66	5,625	16,587
197.67	5,633	16,643
197.68	5,641	16,699
197.69	5,649	16,756
197.70	5,657	16,812
197.71	5,666	16,869
197.72	5,674	16,926
197.73	5,682	16,982
197.74	5,690	17,039
197.75	5,698	17,096
197.76	5,706	17,153
197.77	5,714	17,210
197.78	5,722	17,267
197.79	5,730	17,325
197.80	5,739	17,382
197.81	5,747	17,439
197.82	5,755	17,497
197.83	5,763	17,555
197.84	5,771	17,612
197.85	5,779	17,670
197.86	5,787	17,728
197.87	5,795	17,786
197.88	5,804	17,844
197.89	5,812	17,902
197.90	5,820	17,960
197.91	5,828	18,018
197.92	5,836	18,077
197.93	5,844	18,135
197.94	5,852	18,193
197.95	5,860	18,252
197.96	5,869	18,311
197.97	5,877	18,369
197.98	5,885	18,428
197.99	5,893	18,487
198.00	**5,901**	**18,546**

Summary for Pond B-37B: Basin #37B

Inflow Area = 2.179 ac, 53.42% Impervious, Inflow Depth = 4.42" for Future 10 yr event
Inflow = 9.64 cfs @ 12.17 hrs, Volume= 0.803 af
Outflow = 3.87 cfs @ 12.39 hrs, Volume= 0.671 af, Atten= 60%, Lag= 13.3 min
Primary = 3.87 cfs @ 12.39 hrs, Volume= 0.671 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 197.06' @ 12.39 hrs Surf.Area= 6,997 sf Storage= 17,563 cf

Plug-Flow detention time= 455.3 min calculated for 0.670 af (83% of inflow)
Center-of-Mass det. time= 383.3 min (1,161.3 - 778.0)

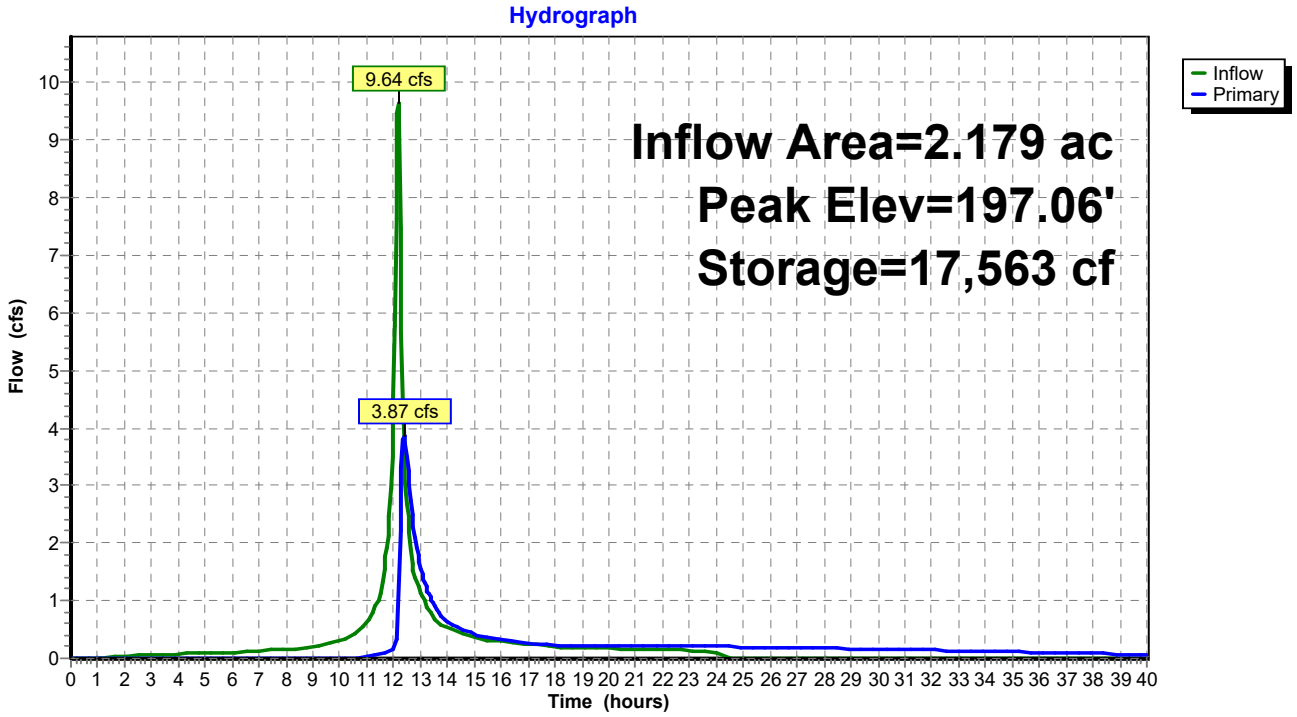
Volume	Invert	Avail.Storage	Storage Description
#1	193.30'	24,651 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
193.30	0	0	0
194.00	3,709	1,298	1,298
195.00	4,724	4,217	5,515
196.00	5,796	5,260	10,775
197.00	6,924	6,360	17,135
198.00	8,108	7,516	24,651

Device	Routing	Invert	Outlet Devices
#1	Primary	192.65'	**18.0" Round Culvert** L= 265.0' Ke= 0.500 Inlet / Outlet Invert= 192.65' / 191.33' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	194.81'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	196.63'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.85 cfs @ 12.39 hrs HW=197.06' (Free Discharge)
- **1=Culvert** (Passes 3.85 cfs of 11.58 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.24 cfs @ 7.05 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 3.61 cfs @ 2.15 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-37B: Basin #37B



Stage-Discharge for Pond B-37B: Basin #37B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.30	0.00	193.82	0.00	194.34	0.00	194.86	0.00
193.31	0.00	193.83	0.00	194.35	0.00	194.87	0.01
193.32	0.00	193.84	0.00	194.36	0.00	194.88	0.01
193.33	0.00	193.85	0.00	194.37	0.00	194.89	0.01
193.34	0.00	193.86	0.00	194.38	0.00	194.90	0.01
193.35	0.00	193.87	0.00	194.39	0.00	194.91	0.02
193.36	0.00	193.88	0.00	194.40	0.00	194.92	0.02
193.37	0.00	193.89	0.00	194.41	0.00	194.93	0.02
193.38	0.00	193.90	0.00	194.42	0.00	194.94	0.03
193.39	0.00	193.91	0.00	194.43	0.00	194.95	0.03
193.40	0.00	193.92	0.00	194.44	0.00	194.96	0.03
193.41	0.00	193.93	0.00	194.45	0.00	194.97	0.04
193.42	0.00	193.94	0.00	194.46	0.00	194.98	0.04
193.43	0.00	193.95	0.00	194.47	0.00	194.99	0.05
193.44	0.00	193.96	0.00	194.48	0.00	195.00	0.05
193.45	0.00	193.97	0.00	194.49	0.00	195.01	0.05
193.46	0.00	193.98	0.00	194.50	0.00	195.02	0.05
193.47	0.00	193.99	0.00	194.51	0.00	195.03	0.06
193.48	0.00	194.00	0.00	194.52	0.00	195.04	0.06
193.49	0.00	194.01	0.00	194.53	0.00	195.05	0.06
193.50	0.00	194.02	0.00	194.54	0.00	195.06	0.06
193.51	0.00	194.03	0.00	194.55	0.00	195.07	0.06
193.52	0.00	194.04	0.00	194.56	0.00	195.08	0.07
193.53	0.00	194.05	0.00	194.57	0.00	195.09	0.07
193.54	0.00	194.06	0.00	194.58	0.00	195.10	0.07
193.55	0.00	194.07	0.00	194.59	0.00	195.11	0.07
193.56	0.00	194.08	0.00	194.60	0.00	195.12	0.07
193.57	0.00	194.09	0.00	194.61	0.00	195.13	0.08
193.58	0.00	194.10	0.00	194.62	0.00	195.14	0.08
193.59	0.00	194.11	0.00	194.63	0.00	195.15	0.08
193.60	0.00	194.12	0.00	194.64	0.00	195.16	0.08
193.61	0.00	194.13	0.00	194.65	0.00	195.17	0.08
193.62	0.00	194.14	0.00	194.66	0.00	195.18	0.08
193.63	0.00	194.15	0.00	194.67	0.00	195.19	0.09
193.64	0.00	194.16	0.00	194.68	0.00	195.20	0.09
193.65	0.00	194.17	0.00	194.69	0.00	195.21	0.09
193.66	0.00	194.18	0.00	194.70	0.00	195.22	0.09
193.67	0.00	194.19	0.00	194.71	0.00	195.23	0.09
193.68	0.00	194.20	0.00	194.72	0.00	195.24	0.09
193.69	0.00	194.21	0.00	194.73	0.00	195.25	0.10
193.70	0.00	194.22	0.00	194.74	0.00	195.26	0.10
193.71	0.00	194.23	0.00	194.75	0.00	195.27	0.10
193.72	0.00	194.24	0.00	194.76	0.00	195.28	0.10
193.73	0.00	194.25	0.00	194.77	0.00	195.29	0.10
193.74	0.00	194.26	0.00	194.78	0.00	195.30	0.10
193.75	0.00	194.27	0.00	194.79	0.00	195.31	0.10
193.76	0.00	194.28	0.00	194.80	0.00	195.32	0.10
193.77	0.00	194.29	0.00	194.81	0.00	195.33	0.11
193.78	0.00	194.30	0.00	194.82	0.00	195.34	0.11
193.79	0.00	194.31	0.00	194.83	0.00	195.35	0.11
193.80	0.00	194.32	0.00	194.84	0.00	195.36	0.11
193.81	0.00	194.33	0.00	194.85	0.00	195.37	0.11

Stage-Discharge for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.38	0.11	195.90	0.16	196.42	0.20	196.94	2.46
195.39	0.11	195.91	0.16	196.43	0.20	196.95	2.56
195.40	0.11	195.92	0.16	196.44	0.20	196.96	2.67
195.41	0.12	195.93	0.17	196.45	0.20	196.97	2.78
195.42	0.12	195.94	0.17	196.46	0.20	196.98	2.90
195.43	0.12	195.95	0.17	196.47	0.20	196.99	3.01
195.44	0.12	195.96	0.17	196.48	0.21	197.00	3.13
195.45	0.12	195.97	0.17	196.49	0.21	197.01	3.24
195.46	0.12	195.98	0.17	196.50	0.21	197.02	3.36
195.47	0.12	195.99	0.17	196.51	0.21	197.03	3.48
195.48	0.12	196.00	0.17	196.52	0.21	197.04	3.60
195.49	0.12	196.01	0.17	196.53	0.21	197.05	3.73
195.50	0.13	196.02	0.17	196.54	0.21	197.06	3.85
195.51	0.13	196.03	0.17	196.55	0.21	197.07	3.97
195.52	0.13	196.04	0.17	196.56	0.21	197.08	4.10
195.53	0.13	196.05	0.17	196.57	0.21	197.09	4.23
195.54	0.13	196.06	0.18	196.58	0.21	197.10	4.36
195.55	0.13	196.07	0.18	196.59	0.21	197.11	4.49
195.56	0.13	196.08	0.18	196.60	0.21	197.12	4.62
195.57	0.13	196.09	0.18	196.61	0.21	197.13	4.75
195.58	0.13	196.10	0.18	196.62	0.21	197.14	4.89
195.59	0.13	196.11	0.18	196.63	0.22	197.15	5.02
195.60	0.14	196.12	0.18	196.64	0.23	197.16	5.16
195.61	0.14	196.13	0.18	196.65	0.25	197.17	5.30
195.62	0.14	196.14	0.18	196.66	0.28	197.18	5.44
195.63	0.14	196.15	0.18	196.67	0.32	197.19	5.58
195.64	0.14	196.16	0.18	196.68	0.36	197.20	5.72
195.65	0.14	196.17	0.18	196.69	0.41	197.21	5.86
195.66	0.14	196.18	0.18	196.70	0.46	197.22	6.00
195.67	0.14	196.19	0.19	196.71	0.51	197.23	6.15
195.68	0.14	196.20	0.19	196.72	0.57	197.24	6.29
195.69	0.14	196.21	0.19	196.73	0.63	197.25	6.44
195.70	0.15	196.22	0.19	196.74	0.70	197.26	6.59
195.71	0.15	196.23	0.19	196.75	0.76	197.27	6.73
195.72	0.15	196.24	0.19	196.76	0.83	197.28	6.88
195.73	0.15	196.25	0.19	196.77	0.90	197.29	7.03
195.74	0.15	196.26	0.19	196.78	0.98	197.30	7.19
195.75	0.15	196.27	0.19	196.79	1.06	197.31	7.34
195.76	0.15	196.28	0.19	196.80	1.13	197.32	7.49
195.77	0.15	196.29	0.19	196.81	1.22	197.33	7.65
195.78	0.15	196.30	0.19	196.82	1.30	197.34	7.80
195.79	0.15	196.31	0.19	196.83	1.39	197.35	7.96
195.80	0.15	196.32	0.19	196.84	1.47	197.36	8.12
195.81	0.16	196.33	0.20	196.85	1.56	197.37	8.28
195.82	0.16	196.34	0.20	196.86	1.66	197.38	8.43
195.83	0.16	196.35	0.20	196.87	1.75	197.39	8.60
195.84	0.16	196.36	0.20	196.88	1.84	197.40	8.76
195.85	0.16	196.37	0.20	196.89	1.94	197.41	8.92
195.86	0.16	196.38	0.20	196.90	2.04	197.42	9.08
195.87	0.16	196.39	0.20	196.91	2.14	197.43	9.25
195.88	0.16	196.40	0.20	196.92	2.25	197.44	9.41
195.89	0.16	196.41	0.20	196.93	2.35	197.45	9.58

Stage-Discharge for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Primary (cfs)
197.46	9.74
197.47	9.91
197.48	10.08
197.49	10.25
197.50	10.42
197.51	10.59
197.52	10.76
197.53	10.93
197.54	11.10
197.55	11.28
197.56	11.45
197.57	11.63
197.58	11.80
197.59	11.98
197.60	12.16
197.61	12.31
197.62	12.32
197.63	12.33
197.64	12.35
197.65	12.36
197.66	12.37
197.67	12.38
197.68	12.40
197.69	12.41
197.70	12.42
197.71	12.44
197.72	12.45
197.73	12.46
197.74	12.47
197.75	12.49
197.76	12.50
197.77	12.51
197.78	12.52
197.79	12.54
197.80	12.55
197.81	12.56
197.82	12.57
197.83	12.59
197.84	12.60
197.85	12.61
197.86	12.63
197.87	12.64
197.88	12.65
197.89	12.66
197.90	12.68
197.91	12.69
197.92	12.70
197.93	12.71
197.94	12.73
197.95	12.74
197.96	12.87
197.97	13.09
197.98	13.38
197.99	13.73
198.00	**14.11**

Stage-Area-Storage for Pond B-37B: Basin #37B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.30	0	0
193.31	53	0
193.32	106	1
193.33	159	2
193.34	212	4
193.35	265	7
193.36	318	10
193.37	371	13
193.38	424	17
193.39	477	21
193.40	530	26
193.41	583	32
193.42	636	38
193.43	689	45
193.44	742	52
193.45	795	60
193.46	848	68
193.47	901	77
193.48	954	86
193.49	1,007	96
193.50	1,060	106
193.51	1,113	117
193.52	1,166	128
193.53	1,219	140
193.54	1,272	153
193.55	1,325	166
193.56	1,378	179
193.57	1,431	193
193.58	1,484	208
193.59	1,537	223
193.60	1,590	238
193.61	1,643	255
193.62	1,696	271
193.63	1,749	289
193.64	1,802	306
193.65	1,855	325
193.66	1,907	343
193.67	1,960	363
193.68	2,013	383
193.69	2,066	403
193.70	2,119	424
193.71	2,172	445
193.72	2,225	467
193.73	2,278	490
193.74	2,331	513
193.75	2,384	536
193.76	2,437	561
193.77	2,490	585
193.78	2,543	610
193.79	2,596	636
193.80	2,649	662
193.81	2,702	689
193.82	2,755	716
193.83	2,808	744
193.84	2,861	773
193.85	2,914	801
193.86	2,967	831
193.87	3,020	861
193.88	3,073	891
193.89	3,126	922
193.90	3,179	954
193.91	3,232	986
193.92	3,285	1,018
193.93	3,338	1,052
193.94	3,391	1,085
193.95	3,444	1,119
193.96	3,497	1,154
193.97	3,550	1,189
193.98	3,603	1,225
193.99	3,656	1,261
194.00	3,709	1,298
194.01	3,719	1,335
194.02	3,729	1,373
194.03	3,739	1,410
194.04	3,750	1,447
194.05	3,760	1,485
194.06	3,770	1,523
194.07	3,780	1,560
194.08	3,790	1,598
194.09	3,800	1,636
194.10	3,811	1,674
194.11	3,821	1,712
194.12	3,831	1,751
194.13	3,841	1,789
194.14	3,851	1,827
194.15	3,861	1,866
194.16	3,871	1,905
194.17	3,882	1,943
194.18	3,892	1,982
194.19	3,902	2,021
194.20	3,912	2,060
194.21	3,922	2,099
194.22	3,932	2,139
194.23	3,942	2,178
194.24	3,953	2,218
194.25	3,963	2,257
194.26	3,973	2,297
194.27	3,983	2,337
194.28	3,993	2,376
194.29	4,003	2,416
194.30	4,014	2,457
194.31	4,024	2,497
194.32	4,034	2,537
194.33	4,044	2,577

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.34	4,054	2,618
194.35	4,064	2,658
194.36	4,074	2,699
194.37	4,085	2,740
194.38	4,095	2,781
194.39	4,105	2,822
194.40	4,115	2,863
194.41	4,125	2,904
194.42	4,135	2,945
194.43	4,145	2,987
194.44	4,156	3,028
194.45	4,166	3,070
194.46	4,176	3,112
194.47	4,186	3,153
194.48	4,196	3,195
194.49	4,206	3,237
194.50	4,217	3,280
194.51	4,227	3,322
194.52	4,237	3,364
194.53	4,247	3,406
194.54	4,257	3,449
194.55	4,267	3,492
194.56	4,277	3,534
194.57	4,288	3,577
194.58	4,298	3,620
194.59	4,308	3,663
194.60	4,318	3,706
194.61	4,328	3,749
194.62	4,338	3,793
194.63	4,348	3,836
194.64	4,359	3,880
194.65	4,369	3,923
194.66	4,379	3,967
194.67	4,389	4,011
194.68	4,399	4,055
194.69	4,409	4,099
194.70	4,420	4,143
194.71	4,430	4,187
194.72	4,440	4,232
194.73	4,450	4,276
194.74	4,460	4,321
194.75	4,470	4,365
194.76	4,480	4,410
194.77	4,491	4,455
194.78	4,501	4,500
194.79	4,511	4,545
194.80	4,521	4,590
194.81	4,531	4,635
194.82	4,541	4,681
194.83	4,551	4,726
194.84	4,562	4,772
194.85	4,572	4,817
194.86	4,582	4,863
194.87	4,592	4,909
194.88	4,602	4,955
194.89	4,612	5,001
194.90	4,623	5,047
194.91	4,633	5,094
194.92	4,643	5,140
194.93	4,653	5,186
194.94	4,663	5,233
194.95	4,673	5,280
194.96	4,683	5,327
194.97	4,694	5,373
194.98	4,704	5,420
194.99	4,714	5,467
195.00	4,724	5,515
195.01	4,735	5,562
195.02	4,745	5,609
195.03	4,756	5,657
195.04	4,767	5,704
195.05	4,778	5,752
195.06	4,788	5,800
195.07	4,799	5,848
195.08	4,810	5,896
195.09	4,820	5,944
195.10	4,831	5,992
195.11	4,842	6,041
195.12	4,853	6,089
195.13	4,863	6,138
195.14	4,874	6,187
195.15	4,885	6,235
195.16	4,896	6,284
195.17	4,906	6,333
195.18	4,917	6,382
195.19	4,928	6,432
195.20	4,938	6,481
195.21	4,949	6,530
195.22	4,960	6,580
195.23	4,971	6,630
195.24	4,981	6,679
195.25	4,992	6,729
195.26	5,003	6,779
195.27	5,013	6,829
195.28	5,024	6,879
195.29	5,035	6,930
195.30	5,046	6,980
195.31	5,056	7,031
195.32	5,067	7,081
195.33	5,078	7,132
195.34	5,088	7,183
195.35	5,099	7,234
195.36	5,110	7,285
195.37	5,121	7,336

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.38	5,131	7,387	195.90	5,689	10,200
195.39	5,142	7,439	195.91	5,700	10,257
195.40	5,153	7,490	195.92	5,710	10,314
195.41	5,164	7,542	195.93	5,721	10,372
195.42	5,174	7,593	195.94	5,732	10,429
195.43	5,185	7,645	195.95	5,742	10,486
195.44	5,196	7,697	195.96	5,753	10,544
195.45	5,206	7,749	195.97	5,764	10,601
195.46	5,217	7,801	195.98	5,775	10,659
195.47	5,228	7,853	195.99	5,785	10,717
195.48	5,239	7,906	196.00	5,796	10,775
195.49	5,249	7,958	196.01	5,807	10,833
195.50	5,260	8,011	196.02	5,819	10,891
195.51	5,271	8,063	196.03	5,830	10,949
195.52	5,281	8,116	196.04	5,841	11,007
195.53	5,292	8,169	196.05	5,852	11,066
195.54	5,303	8,222	196.06	5,864	11,124
195.55	5,314	8,275	196.07	5,875	11,183
195.56	5,324	8,328	196.08	5,886	11,242
195.57	5,335	8,381	196.09	5,898	11,301
195.58	5,346	8,435	196.10	5,909	11,360
195.59	5,356	8,488	196.11	5,920	11,419
195.60	5,367	8,542	196.12	5,931	11,478
195.61	5,378	8,596	196.13	5,943	11,538
195.62	5,389	8,650	196.14	5,954	11,597
195.63	5,399	8,704	196.15	5,965	11,657
195.64	5,410	8,758	196.16	5,976	11,716
195.65	5,421	8,812	196.17	5,988	11,776
195.66	5,432	8,866	196.18	5,999	11,836
195.67	5,442	8,920	196.19	6,010	11,896
195.68	5,453	8,975	196.20	6,022	11,956
195.69	5,464	9,029	196.21	6,033	12,017
195.70	5,474	9,084	196.22	6,044	12,077
195.71	5,485	9,139	196.23	6,055	12,138
195.72	5,496	9,194	196.24	6,067	12,198
195.73	5,507	9,249	196.25	6,078	12,259
195.74	5,517	9,304	196.26	6,089	12,320
195.75	5,528	9,359	196.27	6,101	12,381
195.76	5,539	9,414	196.28	6,112	12,442
195.77	5,549	9,470	196.29	6,123	12,503
195.78	5,560	9,525	196.30	6,134	12,564
195.79	5,571	9,581	196.31	6,146	12,626
195.80	5,582	9,637	196.32	6,157	12,687
195.81	5,592	9,693	196.33	6,168	12,749
195.82	5,603	9,749	196.34	6,180	12,810
195.83	5,614	9,805	196.35	6,191	12,872
195.84	5,624	9,861	196.36	6,202	12,934
195.85	5,635	9,917	196.37	6,213	12,996
195.86	5,646	9,974	196.38	6,225	13,059
195.87	5,657	10,030	196.39	6,236	13,121
195.88	5,667	10,087	196.40	6,247	13,183
195.89	5,678	10,144	196.41	6,258	13,246

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.42	6,270	13,308	196.94	6,856	16,721
196.43	6,281	13,371	196.95	6,868	16,790
196.44	6,292	13,434	196.96	6,879	16,859
196.45	6,304	13,497	196.97	6,890	16,927
196.46	6,315	13,560	196.98	6,901	16,996
196.47	6,326	13,623	196.99	6,913	17,065
196.48	6,337	13,687	197.00	6,924	17,135
196.49	6,349	13,750	197.01	6,936	17,204
196.50	6,360	13,814	197.02	6,948	17,273
196.51	6,371	13,877	197.03	6,960	17,343
196.52	6,383	13,941	197.04	6,971	17,413
196.53	6,394	14,005	197.05	6,983	17,482
196.54	6,405	14,069	197.06	6,995	17,552
196.55	6,416	14,133	197.07	7,007	17,622
196.56	6,428	14,197	197.08	7,019	17,692
196.57	6,439	14,262	197.09	7,031	17,763
196.58	6,450	14,326	197.10	7,042	17,833
196.59	6,462	14,391	197.11	7,054	17,903
196.60	6,473	14,455	197.12	7,066	17,974
196.61	6,484	14,520	197.13	7,078	18,045
196.62	6,495	14,585	197.14	7,090	18,116
196.63	6,507	14,650	197.15	7,102	18,187
196.64	6,518	14,715	197.16	7,113	18,258
196.65	6,529	14,780	197.17	7,125	18,329
196.66	6,540	14,846	197.18	7,137	18,400
196.67	6,552	14,911	197.19	7,149	18,472
196.68	6,563	14,977	197.20	7,161	18,543
196.69	6,574	15,042	197.21	7,173	18,615
196.70	6,586	15,108	197.22	7,184	18,687
196.71	6,597	15,174	197.23	7,196	18,758
196.72	6,608	15,240	197.24	7,208	18,831
196.73	6,619	15,306	197.25	7,220	18,903
196.74	6,631	15,373	197.26	7,232	18,975
196.75	6,642	15,439	197.27	7,244	19,047
196.76	6,653	15,505	197.28	7,256	19,120
196.77	6,665	15,572	197.29	7,267	19,192
196.78	6,676	15,639	197.30	7,279	19,265
196.79	6,687	15,705	197.31	7,291	19,338
196.80	6,698	15,772	197.32	7,303	19,411
196.81	6,710	15,839	197.33	7,315	19,484
196.82	6,721	15,907	197.34	7,327	19,557
196.83	6,732	15,974	197.35	7,338	19,631
196.84	6,744	16,041	197.36	7,350	19,704
196.85	6,755	16,109	197.37	7,362	19,778
196.86	6,766	16,176	197.38	7,374	19,851
196.87	6,777	16,244	197.39	7,386	19,925
196.88	6,789	16,312	197.40	7,398	19,999
196.89	6,800	16,380	197.41	7,409	20,073
196.90	6,811	16,448	197.42	7,421	20,147
196.91	6,822	16,516	197.43	7,433	20,221
196.92	6,834	16,584	197.44	7,445	20,296
196.93	6,845	16,653	197.45	7,457	20,370

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.46	7,469	20,445
197.47	7,480	20,520
197.48	7,492	20,595
197.49	7,504	20,670
197.50	7,516	20,745
197.51	7,528	20,820
197.52	7,540	20,895
197.53	7,552	20,971
197.54	7,563	21,046
197.55	7,575	21,122
197.56	7,587	21,198
197.57	7,599	21,274
197.58	7,611	21,350
197.59	7,623	21,426
197.60	7,634	21,502
197.61	7,646	21,579
197.62	7,658	21,655
197.63	7,670	21,732
197.64	7,682	21,808
197.65	7,694	21,885
197.66	7,705	21,962
197.67	7,717	22,039
197.68	7,729	22,117
197.69	7,741	22,194
197.70	7,753	22,272
197.71	7,765	22,349
197.72	7,776	22,427
197.73	7,788	22,505
197.74	7,800	22,583
197.75	7,812	22,661
197.76	7,824	22,739
197.77	7,836	22,817
197.78	7,848	22,896
197.79	7,859	22,974
197.80	7,871	23,053
197.81	7,883	23,132
197.82	7,895	23,210
197.83	7,907	23,289
197.84	7,919	23,369
197.85	7,930	23,448
197.86	7,942	23,527
197.87	7,954	23,607
197.88	7,966	23,686
197.89	7,978	23,766
197.90	7,990	23,846
197.91	8,001	23,926
197.92	8,013	24,006
197.93	8,025	24,086
197.94	8,037	24,166
197.95	8,049	24,247
197.96	8,061	24,327
197.97	8,072	24,408
197.98	8,084	24,489
197.99	8,096	24,570
198.00	**8,108**	**24,651**

Summary for Pond B-38: Basin #38

Inflow Area = 2.114 ac, 34.96% Impervious, Inflow Depth = 3.95" for Future 10 yr event
Inflow = 8.59 cfs @ 12.17 hrs, Volume= 0.696 af
Outflow = 3.42 cfs @ 12.40 hrs, Volume= 0.600 af, Atten= 60%, Lag= 13.6 min
Primary = 3.42 cfs @ 12.40 hrs, Volume= 0.600 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 207.09' @ 12.40 hrs Surf.Area= 6,978 sf Storage= 14,347 cf

Plug-Flow detention time= 419.9 min calculated for 0.599 af (86% of inflow)
Center-of-Mass det. time= 355.6 min (1,149.4 - 793.8)

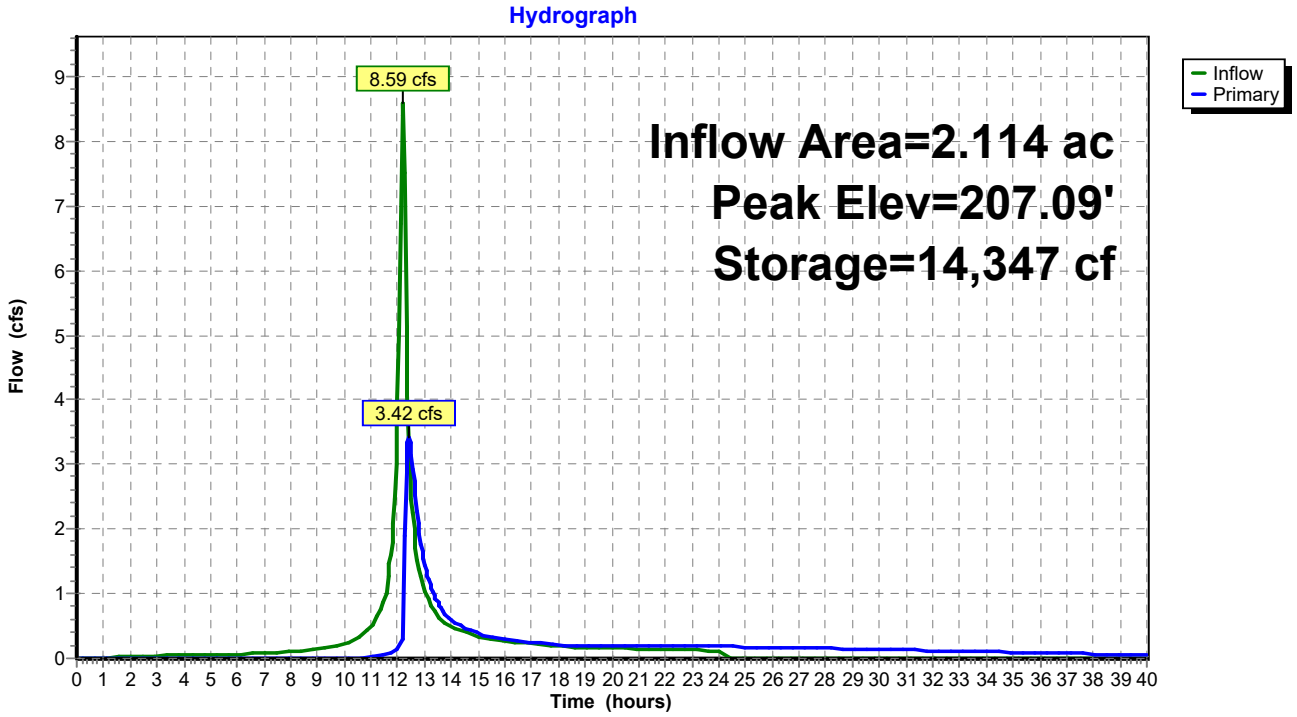
Volume	Invert	Avail.Storage	Storage Description
#1	204.30'	29,525 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
204.30	0	0	0
205.00	5,096	1,784	1,784
206.00	5,966	5,531	7,315
207.00	6,893	6,430	13,744
208.00	7,876	7,385	21,129
209.00	8,916	8,396	29,525

Device	Routing	Invert	Outlet Devices
#1	Primary	204.30'	**18.0" Round Culvert** L= 33.0' Ke= 0.500 Inlet / Outlet Invert= 204.30' / 204.13' S= 0.0052 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	205.26'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	206.69'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	208.25'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.42 cfs @ 12.40 hrs HW=207.09' (Free Discharge)
- **1=Culvert** (Passes 3.42 cfs of 11.80 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.22 cfs @ 6.32 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 3.21 cfs @ 2.06 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-38: Basin #38



Stage-Discharge for Pond B-38: Basin #38

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.30	0.00	204.82	0.00	205.34	0.01	205.86	0.12
204.31	0.00	204.83	0.00	205.35	0.01	205.87	0.12
204.32	0.00	204.84	0.00	205.36	0.02	205.88	0.12
204.33	0.00	204.85	0.00	205.37	0.02	205.89	0.12
204.34	0.00	204.86	0.00	205.38	0.02	205.90	0.12
204.35	0.00	204.87	0.00	205.39	0.03	205.91	0.12
204.36	0.00	204.88	0.00	205.40	0.03	205.92	0.12
204.37	0.00	204.89	0.00	205.41	0.03	205.93	0.12
204.38	0.00	204.90	0.00	205.42	0.04	205.94	0.12
204.39	0.00	204.91	0.00	205.43	0.04	205.95	0.13
204.40	0.00	204.92	0.00	205.44	0.05	205.96	0.13
204.41	0.00	204.93	0.00	205.45	0.05	205.97	0.13
204.42	0.00	204.94	0.00	205.46	0.05	205.98	0.13
204.43	0.00	204.95	0.00	205.47	0.05	205.99	0.13
204.44	0.00	204.96	0.00	205.48	0.06	206.00	0.13
204.45	0.00	204.97	0.00	205.49	0.06	206.01	0.13
204.46	0.00	204.98	0.00	205.50	0.06	206.02	0.13
204.47	0.00	204.99	0.00	205.51	0.06	206.03	0.13
204.48	0.00	205.00	0.00	205.52	0.06	206.04	0.13
204.49	0.00	205.01	0.00	205.53	0.07	206.05	0.14
204.50	0.00	205.02	0.00	205.54	0.07	206.06	0.14
204.51	0.00	205.03	0.00	205.55	0.07	206.07	0.14
204.52	0.00	205.04	0.00	205.56	0.07	206.08	0.14
204.53	0.00	205.05	0.00	205.57	0.07	206.09	0.14
204.54	0.00	205.06	0.00	205.58	0.08	206.10	0.14
204.55	0.00	205.07	0.00	205.59	0.08	206.11	0.14
204.56	0.00	205.08	0.00	205.60	0.08	206.12	0.14
204.57	0.00	205.09	0.00	205.61	0.08	206.13	0.14
204.58	0.00	205.10	0.00	205.62	0.08	206.14	0.14
204.59	0.00	205.11	0.00	205.63	0.08	206.15	0.15
204.60	0.00	205.12	0.00	205.64	0.09	206.16	0.15
204.61	0.00	205.13	0.00	205.65	0.09	206.17	0.15
204.62	0.00	205.14	0.00	205.66	0.09	206.18	0.15
204.63	0.00	205.15	0.00	205.67	0.09	206.19	0.15
204.64	0.00	205.16	0.00	205.68	0.09	206.20	0.15
204.65	0.00	205.17	0.00	205.69	0.09	206.21	0.15
204.66	0.00	205.18	0.00	205.70	0.10	206.22	0.15
204.67	0.00	205.19	0.00	205.71	0.10	206.23	0.15
204.68	0.00	205.20	0.00	205.72	0.10	206.24	0.15
204.69	0.00	205.21	0.00	205.73	0.10	206.25	0.15
204.70	0.00	205.22	0.00	205.74	0.10	206.26	0.16
204.71	0.00	205.23	0.00	205.75	0.10	206.27	0.16
204.72	0.00	205.24	0.00	205.76	0.10	206.28	0.16
204.73	0.00	205.25	0.00	205.77	0.10	206.29	0.16
204.74	0.00	205.26	0.00	205.78	0.11	206.30	0.16
204.75	0.00	205.27	0.00	205.79	0.11	206.31	0.16
204.76	0.00	205.28	0.00	205.80	0.11	206.32	0.16
204.77	0.00	205.29	0.00	205.81	0.11	206.33	0.16
204.78	0.00	205.30	0.00	205.82	0.11	206.34	0.16
204.79	0.00	205.31	0.00	205.83	0.11	206.35	0.16
204.80	0.00	205.32	0.01	205.84	0.11	206.36	0.16
204.81	0.00	205.33	0.01	205.85	0.11	206.37	0.16

Stage-Discharge for Pond B-38: Basin #38 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
206.38	0.17	206.90	1.45	207.42	8.10	207.94	14.46
206.39	0.17	206.91	1.54	207.43	8.25	207.95	14.49
206.40	0.17	206.92	1.63	207.44	8.41	207.96	14.51
206.41	0.17	206.93	1.72	207.45	8.57	207.97	14.54
206.42	0.17	206.94	1.82	207.46	8.74	207.98	14.56
206.43	0.17	206.95	1.92	207.47	8.90	207.99	14.59
206.44	0.17	206.96	2.02	207.48	9.06	208.00	14.61
206.45	0.17	206.97	2.12	207.49	9.22	208.01	14.64
206.46	0.17	206.98	2.22	207.50	9.39	208.02	14.66
206.47	0.17	206.99	2.33	207.51	9.55	208.03	14.69
206.48	0.17	207.00	2.43	207.52	9.72	208.04	14.71
206.49	0.17	207.01	2.54	207.53	9.89	208.05	14.74
206.50	0.17	207.02	2.65	207.54	10.06	208.06	14.76
206.51	0.18	207.03	2.76	207.55	10.23	208.07	14.79
206.52	0.18	207.04	2.87	207.56	10.40	208.08	14.81
206.53	0.18	207.05	2.99	207.57	10.57	208.09	14.84
206.54	0.18	207.06	3.10	207.58	10.74	208.10	14.86
206.55	0.18	207.07	3.22	207.59	10.91	208.11	14.88
206.56	0.18	207.08	3.34	207.60	11.08	208.12	14.91
206.57	0.18	207.09	3.46	207.61	11.26	208.13	14.93
206.58	0.18	207.10	3.58	207.62	11.43	208.14	14.96
206.59	0.18	207.11	3.70	207.63	11.61	208.15	14.98
206.60	0.18	207.12	3.83	207.64	11.78	208.16	15.01
206.61	0.18	207.13	3.95	207.65	11.96	208.17	15.03
206.62	0.18	207.14	4.08	207.66	12.14	208.18	15.05
206.63	0.18	207.15	4.21	207.67	12.32	208.19	15.08
206.64	0.19	207.16	4.34	207.68	12.50	208.20	15.10
206.65	0.19	207.17	4.47	207.69	12.68	208.21	15.13
206.66	0.19	207.18	4.60	207.70	12.86	208.22	15.15
206.67	0.19	207.19	4.73	207.71	13.04	208.23	15.17
206.68	0.19	207.20	4.86	207.72	13.22	208.24	15.20
206.69	0.19	207.21	5.00	207.73	13.40	208.25	15.22
206.70	0.20	207.22	5.14	207.74	13.59	208.26	15.36
206.71	0.23	207.23	5.27	207.75	13.77	208.27	15.60
206.72	0.26	207.24	5.41	207.76	13.96	208.28	15.90
206.73	0.30	207.25	5.55	207.77	14.03	208.29	16.25
206.74	0.34	207.26	5.69	207.78	14.06	208.30	16.65
206.75	0.38	207.27	5.84	207.79	14.08	208.31	17.09
206.76	0.44	207.28	5.98	207.80	14.11	208.32	17.56
206.77	0.49	207.29	6.12	207.81	14.14	208.33	18.07
206.78	0.55	207.30	6.27	207.82	14.16	208.34	18.61
206.79	0.61	207.31	6.42	207.83	14.19	208.35	19.17
206.80	0.67	207.32	6.56	207.84	14.21	208.36	19.77
206.81	0.74	207.33	6.71	207.85	14.24	208.37	20.40
206.82	0.81	207.34	6.86	207.86	14.26	208.38	21.05
206.83	0.88	207.35	7.01	207.87	14.29	208.39	21.72
206.84	0.95	207.36	7.16	207.88	14.31	208.40	22.42
206.85	1.03	207.37	7.32	207.89	14.34	208.41	23.14
206.86	1.11	207.38	7.47	207.90	14.36	208.42	23.89
206.87	1.19	207.39	7.63	207.91	14.39	208.43	24.66
206.88	1.28	207.40	7.78	207.92	14.41	208.44	25.44
206.89	1.36	207.41	7.94	207.93	14.44	208.45	26.25

Stage-Discharge for Pond B-38: Basin #38 (continued)

Elevation (feet)	Primary (cfs)
208.46	27.12
208.47	28.02
208.48	28.94
208.49	29.89
208.50	30.86
208.51	31.85
208.52	32.88
208.53	33.92
208.54	34.99
208.55	36.09
208.56	37.21
208.57	38.35
208.58	39.52
208.59	40.71
208.60	41.93
208.61	43.17
208.62	44.43
208.63	45.72
208.64	47.04
208.65	48.37
208.66	49.76
208.67	51.18
208.68	52.62
208.69	54.08
208.70	55.58
208.71	57.09
208.72	58.64
208.73	60.21
208.74	61.81
208.75	63.43
208.76	65.08
208.77	66.76
208.78	68.46
208.79	70.19
208.80	71.95
208.81	73.73
208.82	75.54
208.83	77.38
208.84	79.24
208.85	81.14
208.86	82.78
208.87	84.45
208.88	86.12
208.89	87.81
208.90	89.51
208.91	91.23
208.92	92.96
208.93	94.70
208.94	96.45
208.95	98.22
208.96	100.00
208.97	101.79
208.98	103.60
208.99	105.42
209.00	**107.25**

Stage-Area-Storage for Pond B-38: Basin #38

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.30	0	0	204.82	3,786	984
204.31	73	0	204.83	3,858	1,022
204.32	146	1	204.84	3,931	1,061
204.33	218	3	204.85	4,004	1,101
204.34	291	6	204.86	4,077	1,142
204.35	364	9	204.87	4,150	1,183
204.36	437	13	204.88	4,222	1,224
204.37	510	18	204.89	4,295	1,267
204.38	582	23	204.90	4,368	1,310
204.39	655	29	204.91	4,441	1,354
204.40	728	36	204.92	4,514	1,399
204.41	801	44	204.93	4,586	1,445
204.42	874	52	204.94	4,659	1,491
204.43	946	62	204.95	4,732	1,538
204.44	1,019	71	204.96	4,805	1,586
204.45	1,092	82	204.97	4,878	1,634
204.46	1,165	93	204.98	4,950	1,683
204.47	1,238	105	204.99	5,023	1,733
204.48	1,310	118	205.00	5,096	1,784
204.49	1,383	131	205.01	5,105	1,835
204.50	1,456	146	205.02	5,113	1,886
204.51	1,529	161	205.03	5,122	1,937
204.52	1,602	176	205.04	5,131	1,988
204.53	1,674	193	205.05	5,140	2,039
204.54	1,747	210	205.06	5,148	2,091
204.55	1,820	228	205.07	5,157	2,142
204.56	1,893	246	205.08	5,166	2,194
204.57	1,966	265	205.09	5,174	2,246
204.58	2,038	285	205.10	5,183	2,298
204.59	2,111	306	205.11	5,192	2,349
204.60	2,184	328	205.12	5,200	2,401
204.61	2,257	350	205.13	5,209	2,453
204.62	2,330	373	205.14	5,218	2,506
204.63	2,402	396	205.15	5,227	2,558
204.64	2,475	421	205.16	5,235	2,610
204.65	2,548	446	205.17	5,244	2,662
204.66	2,621	472	205.18	5,253	2,715
204.67	2,694	498	205.19	5,261	2,768
204.68	2,766	526	205.20	5,270	2,820
204.69	2,839	554	205.21	5,279	2,873
204.70	2,912	582	205.22	5,287	2,926
204.71	2,985	612	205.23	5,296	2,979
204.72	3,058	642	205.24	5,305	3,032
204.73	3,130	673	205.25	5,314	3,085
204.74	3,203	705	205.26	5,322	3,138
204.75	3,276	737	205.27	5,331	3,191
204.76	3,349	770	205.28	5,340	3,245
204.77	3,422	804	205.29	5,348	3,298
204.78	3,494	839	205.30	5,357	3,352
204.79	3,567	874	205.31	5,366	3,405
204.80	3,640	910	205.32	5,374	3,459
204.81	3,713	947	205.33	5,383	3,513

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.34	5,392	3,567	205.86	5,844	6,488
205.35	5,401	3,620	205.87	5,853	6,546
205.36	5,409	3,675	205.88	5,862	6,605
205.37	5,418	3,729	205.89	5,870	6,664
205.38	5,427	3,783	205.90	5,879	6,722
205.39	5,435	3,837	205.91	5,888	6,781
205.40	5,444	3,892	205.92	5,896	6,840
205.41	5,453	3,946	205.93	5,905	6,899
205.42	5,461	4,001	205.94	5,914	6,958
205.43	5,470	4,055	205.95	5,923	7,017
205.44	5,479	4,110	205.96	5,931	7,077
205.45	5,488	4,165	205.97	5,940	7,136
205.46	5,496	4,220	205.98	5,949	7,195
205.47	5,505	4,275	205.99	5,957	7,255
205.48	5,514	4,330	206.00	5,966	7,315
205.49	5,522	4,385	206.01	5,975	7,374
205.50	5,531	4,440	206.02	5,985	7,434
205.51	5,540	4,496	206.03	5,994	7,494
205.52	5,548	4,551	206.04	6,003	7,554
205.53	5,557	4,607	206.05	6,012	7,614
205.54	5,566	4,662	206.06	6,022	7,674
205.55	5,575	4,718	206.07	6,031	7,734
205.56	5,583	4,774	206.08	6,040	7,795
205.57	5,592	4,830	206.09	6,049	7,855
205.58	5,601	4,886	206.10	6,059	7,916
205.59	5,609	4,942	206.11	6,068	7,976
205.60	5,618	4,998	206.12	6,077	8,037
205.61	5,627	5,054	206.13	6,087	8,098
205.62	5,635	5,110	206.14	6,096	8,159
205.63	5,644	5,167	206.15	6,105	8,220
205.64	5,653	5,223	206.16	6,114	8,281
205.65	5,662	5,280	206.17	6,124	8,342
205.66	5,670	5,336	206.18	6,133	8,403
205.67	5,679	5,393	206.19	6,142	8,465
205.68	5,688	5,450	206.20	6,151	8,526
205.69	5,696	5,507	206.21	6,161	8,588
205.70	5,705	5,564	206.22	6,170	8,650
205.71	5,714	5,621	206.23	6,179	8,711
205.72	5,722	5,678	206.24	6,188	8,773
205.73	5,731	5,735	206.25	6,198	8,835
205.74	5,740	5,793	206.26	6,207	8,897
205.75	5,749	5,850	206.27	6,216	8,959
205.76	5,757	5,908	206.28	6,226	9,021
205.77	5,766	5,965	206.29	6,235	9,084
205.78	5,775	6,023	206.30	6,244	9,146
205.79	5,783	6,081	206.31	6,253	9,209
205.80	5,792	6,139	206.32	6,263	9,271
205.81	5,801	6,197	206.33	6,272	9,334
205.82	5,809	6,255	206.34	6,281	9,397
205.83	5,818	6,313	206.35	6,290	9,459
205.84	5,827	6,371	206.36	6,300	9,522
205.85	5,836	6,429	206.37	6,309	9,585

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
206.38	6,318	9,649
206.39	6,328	9,712
206.40	6,337	9,775
206.41	6,346	9,839
206.42	6,355	9,902
206.43	6,365	9,966
206.44	6,374	10,029
206.45	6,383	10,093
206.46	6,392	10,157
206.47	6,402	10,221
206.48	6,411	10,285
206.49	6,420	10,349
206.50	6,430	10,413
206.51	6,439	10,478
206.52	6,448	10,542
206.53	6,457	10,607
206.54	6,467	10,671
206.55	6,476	10,736
206.56	6,485	10,801
206.57	6,494	10,866
206.58	6,504	10,931
206.59	6,513	10,996
206.60	6,522	11,061
206.61	6,531	11,126
206.62	6,541	11,192
206.63	6,550	11,257
206.64	6,559	11,323
206.65	6,569	11,388
206.66	6,578	11,454
206.67	6,587	11,520
206.68	6,596	11,586
206.69	6,606	11,652
206.70	6,615	11,718
206.71	6,624	11,784
206.72	6,633	11,850
206.73	6,643	11,917
206.74	6,652	11,983
206.75	6,661	12,050
206.76	6,671	12,116
206.77	6,680	12,183
206.78	6,689	12,250
206.79	6,698	12,317
206.80	6,708	12,384
206.81	6,717	12,451
206.82	6,726	12,518
206.83	6,735	12,586
206.84	6,745	12,653
206.85	6,754	12,721
206.86	6,763	12,788
206.87	6,772	12,856
206.88	6,782	12,924
206.89	6,791	12,991
206.90	6,800	13,059
206.91	6,810	13,127
206.92	6,819	13,196
206.93	6,828	13,264
206.94	6,837	13,332
206.95	6,847	13,401
206.96	6,856	13,469
206.97	6,865	13,538
206.98	6,874	13,606
206.99	6,884	13,675
207.00	6,893	13,744
207.01	6,903	13,813
207.02	6,913	13,882
207.03	6,922	13,951
207.04	6,932	14,021
207.05	6,942	14,090
207.06	6,952	14,159
207.07	6,962	14,229
207.08	6,972	14,299
207.09	6,981	14,368
207.10	6,991	14,438
207.11	7,001	14,508
207.12	7,011	14,578
207.13	7,021	14,648
207.14	7,031	14,719
207.15	7,040	14,789
207.16	7,050	14,860
207.17	7,060	14,930
207.18	7,070	15,001
207.19	7,080	15,072
207.20	7,090	15,142
207.21	7,099	15,213
207.22	7,109	15,284
207.23	7,119	15,355
207.24	7,129	15,427
207.25	7,139	15,498
207.26	7,149	15,570
207.27	7,158	15,641
207.28	7,168	15,713
207.29	7,178	15,784
207.30	7,188	15,856
207.31	7,198	15,928
207.32	7,208	16,000
207.33	7,217	16,072
207.34	7,227	16,145
207.35	7,237	16,217
207.36	7,247	16,289
207.37	7,257	16,362
207.38	7,267	16,434
207.39	7,276	16,507
207.40	7,286	16,580
207.41	7,296	16,653

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
207.42	7,306	16,726	207.94	7,817	20,658
207.43	7,316	16,799	207.95	7,827	20,736
207.44	7,326	16,872	207.96	7,837	20,814
207.45	7,335	16,945	207.97	7,847	20,893
207.46	7,345	17,019	207.98	7,856	20,971
207.47	7,355	17,092	207.99	7,866	21,050
207.48	7,365	17,166	208.00	7,876	21,129
207.49	7,375	17,240	208.01	7,886	21,207
207.50	7,385	17,313	208.02	7,897	21,286
207.51	7,394	17,387	208.03	7,907	21,365
207.52	7,404	17,461	208.04	7,918	21,444
207.53	7,414	17,535	208.05	7,928	21,524
207.54	7,424	17,610	208.06	7,938	21,603
207.55	7,434	17,684	208.07	7,949	21,682
207.56	7,443	17,758	208.08	7,959	21,762
207.57	7,453	17,833	208.09	7,970	21,842
207.58	7,463	17,907	208.10	7,980	21,921
207.59	7,473	17,982	208.11	7,990	22,001
207.60	7,483	18,057	208.12	8,001	22,081
207.61	7,493	18,132	208.13	8,011	22,161
207.62	7,502	18,207	208.14	8,022	22,241
207.63	7,512	18,282	208.15	8,032	22,322
207.64	7,522	18,357	208.16	8,042	22,402
207.65	7,532	18,432	208.17	8,053	22,483
207.66	7,542	18,508	208.18	8,063	22,563
207.67	7,552	18,583	208.19	8,074	22,644
207.68	7,561	18,659	208.20	8,084	22,725
207.69	7,571	18,734	208.21	8,094	22,805
207.70	7,581	18,810	208.22	8,105	22,886
207.71	7,591	18,886	208.23	8,115	22,968
207.72	7,601	18,962	208.24	8,126	23,049
207.73	7,611	19,038	208.25	8,136	23,130
207.74	7,620	19,114	208.26	8,146	23,212
207.75	7,630	19,190	208.27	8,157	23,293
207.76	7,640	19,267	208.28	8,167	23,375
207.77	7,650	19,343	208.29	8,178	23,456
207.78	7,660	19,420	208.30	8,188	23,538
207.79	7,670	19,496	208.31	8,198	23,620
207.80	7,679	19,573	208.32	8,209	23,702
207.81	7,689	19,650	208.33	8,219	23,784
207.82	7,699	19,727	208.34	8,230	23,867
207.83	7,709	19,804	208.35	8,240	23,949
207.84	7,719	19,881	208.36	8,250	24,031
207.85	7,729	19,958	208.37	8,261	24,114
207.86	7,738	20,036	208.38	8,271	24,197
207.87	7,748	20,113	208.39	8,282	24,279
207.88	7,758	20,191	208.40	8,292	24,362
207.89	7,768	20,268	208.41	8,302	24,445
207.90	7,778	20,346	208.42	8,313	24,528
207.91	7,788	20,424	208.43	8,323	24,611
207.92	7,797	20,502	208.44	8,334	24,695
207.93	7,807	20,580	208.45	8,344	24,778

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.46	8,354	24,862
208.47	8,365	24,945
208.48	8,375	25,029
208.49	8,386	25,113
208.50	8,396	25,197
208.51	8,406	25,281
208.52	8,417	25,365
208.53	8,427	25,449
208.54	8,438	25,533
208.55	8,448	25,618
208.56	8,458	25,702
208.57	8,469	25,787
208.58	8,479	25,872
208.59	8,490	25,956
208.60	8,500	26,041
208.61	8,510	26,126
208.62	8,521	26,212
208.63	8,531	26,297
208.64	8,542	26,382
208.65	8,552	26,468
208.66	8,562	26,553
208.67	8,573	26,639
208.68	8,583	26,725
208.69	8,594	26,811
208.70	8,604	26,897
208.71	8,614	26,983
208.72	8,625	27,069
208.73	8,635	27,155
208.74	8,646	27,242
208.75	8,656	27,328
208.76	8,666	27,415
208.77	8,677	27,501
208.78	8,687	27,588
208.79	8,698	27,675
208.80	8,708	27,762
208.81	8,718	27,849
208.82	8,729	27,937
208.83	8,739	28,024
208.84	8,750	28,111
208.85	8,760	28,199
208.86	8,770	28,287
208.87	8,781	28,374
208.88	8,791	28,462
208.89	8,802	28,550
208.90	8,812	28,638
208.91	8,822	28,726
208.92	8,833	28,815
208.93	8,843	28,903
208.94	8,854	28,992
208.95	8,864	29,080
208.96	8,874	29,169
208.97	8,885	29,258
208.98	8,895	29,346
208.99	8,906	29,435
209.00	**8,916**	**29,525**

Summary for Pond B-39: Basin #39

Inflow Area = 1.884 ac, 41.56% Impervious, Inflow Depth = 4.12" for Future 10 yr event
Inflow = 7.90 cfs @ 12.17 hrs, Volume= 0.647 af
Outflow = 5.66 cfs @ 12.27 hrs, Volume= 0.572 af, Atten= 28%, Lag= 6.0 min
Primary = 5.66 cfs @ 12.27 hrs, Volume= 0.572 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 203.54' @ 12.27 hrs Surf.Area= 4,205 sf Storage= 10,037 cf

Plug-Flow detention time= 159.2 min calculated for 0.572 af (88% of inflow)
Center-of-Mass det. time= 101.4 min (889.1 - 787.7)

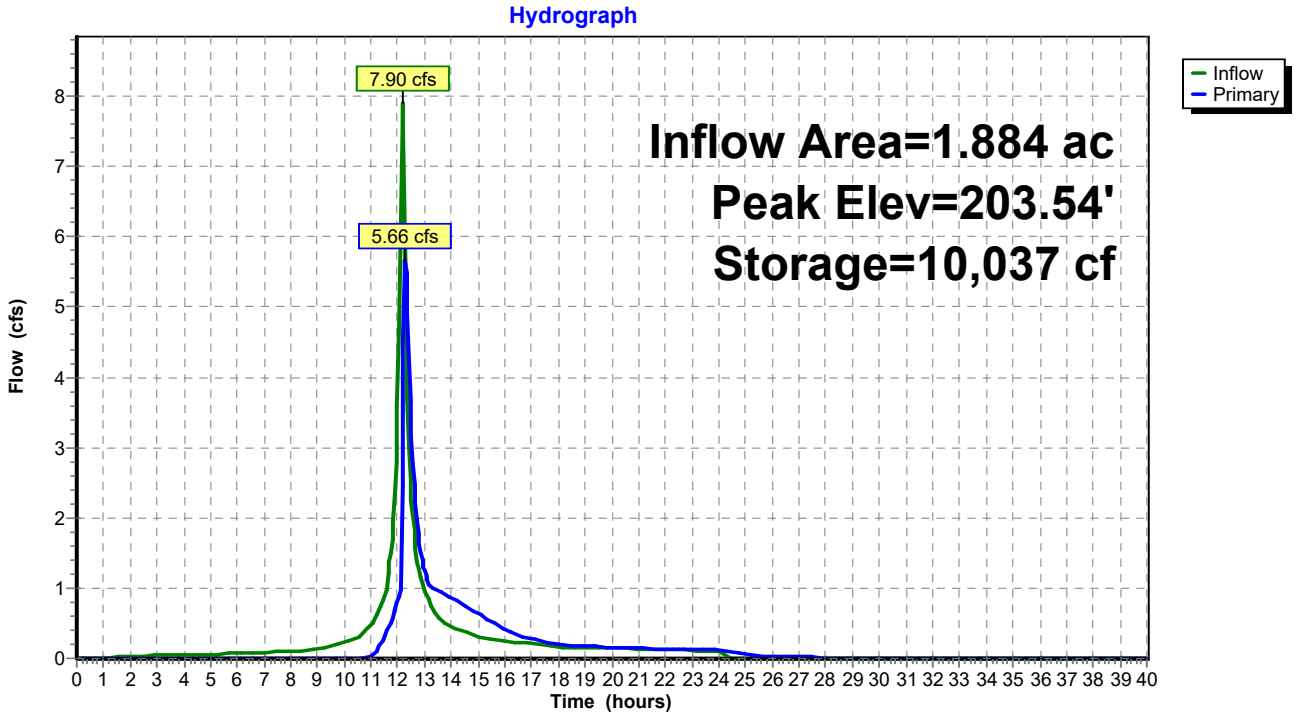
Volume	Invert	Avail.Storage	Storage Description
#1	200.30'	16,777 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.30	0	0	0
201.00	2,928	1,025	1,025
202.00	3,408	3,168	4,193
203.00	3,917	3,663	7,855
204.00	4,454	4,186	12,041
205.00	5,019	4,737	16,777

Device	Routing	Invert	Outlet Devices
#1	Primary	200.30'	**18.0" Round Culvert** L= 38.0' Ke= 0.500 Inlet / Outlet Invert= 200.30' / 200.11' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	201.71'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	203.04'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	204.50'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=5.52 cfs @ 12.27 hrs HW=203.53' (Free Discharge)
- **1=Culvert** (Passes 5.52 cfs of 13.25 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 1.18 cfs @ 6.03 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 4.33 cfs @ 2.28 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-39: Basin #39



Stage-Discharge for Pond B-39: Basin #39

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.07
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.07
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.08
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.09
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.10
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.11
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.12
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.13
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.14
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.16
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.17
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.18
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.19
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.20
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.22
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.23
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.24
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.26
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.27
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.28
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.30
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.31
200.52	0.00	201.04	0.00	201.56	0.00	202.08	0.32
200.53	0.00	201.05	0.00	201.57	0.00	202.09	0.34
200.54	0.00	201.06	0.00	201.58	0.00	202.10	0.35
200.55	0.00	201.07	0.00	201.59	0.00	202.11	0.36
200.56	0.00	201.08	0.00	201.60	0.00	202.12	0.38
200.57	0.00	201.09	0.00	201.61	0.00	202.13	0.39
200.58	0.00	201.10	0.00	201.62	0.00	202.14	0.40
200.59	0.00	201.11	0.00	201.63	0.00	202.15	0.41
200.60	0.00	201.12	0.00	201.64	0.00	202.16	0.43
200.61	0.00	201.13	0.00	201.65	0.00	202.17	0.44
200.62	0.00	201.14	0.00	201.66	0.00	202.18	0.45
200.63	0.00	201.15	0.00	201.67	0.00	202.19	0.46
200.64	0.00	201.16	0.00	201.68	0.00	202.20	0.47
200.65	0.00	201.17	0.00	201.69	0.00	202.21	0.47
200.66	0.00	201.18	0.00	201.70	0.00	202.22	0.48
200.67	0.00	201.19	0.00	201.71	0.00	202.23	0.49
200.68	0.00	201.20	0.00	201.72	0.00	202.24	0.50
200.69	0.00	201.21	0.00	201.73	0.00	202.25	0.51
200.70	0.00	201.22	0.00	201.74	0.00	202.26	0.52
200.71	0.00	201.23	0.00	201.75	0.01	202.27	0.53
200.72	0.00	201.24	0.00	201.76	0.01	202.28	0.53
200.73	0.00	201.25	0.00	201.77	0.01	202.29	0.54
200.74	0.00	201.26	0.00	201.78	0.02	202.30	0.55
200.75	0.00	201.27	0.00	201.79	0.02	202.31	0.56
200.76	0.00	201.28	0.00	201.80	0.02	202.32	0.57
200.77	0.00	201.29	0.00	201.81	0.03	202.33	0.58
200.78	0.00	201.30	0.00	201.82	0.04	202.34	0.58
200.79	0.00	201.31	0.00	201.83	0.04	202.35	0.59
200.80	0.00	201.32	0.00	201.84	0.05	202.36	0.60
200.81	0.00	201.33	0.00	201.85	0.06	202.37	0.61

Stage-Discharge for Pond B-39: Basin #39 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.38	0.61	202.90	0.92	203.42	4.15	203.94	12.00
202.39	0.62	202.91	0.92	203.43	4.27	203.95	12.17
202.40	0.63	202.92	0.93	203.44	4.39	203.96	12.35
202.41	0.63	202.93	0.93	203.45	4.52	203.97	12.53
202.42	0.64	202.94	0.94	203.46	4.64	203.98	12.70
202.43	0.65	202.95	0.94	203.47	4.77	203.99	12.88
202.44	0.66	202.96	0.95	203.48	4.90	204.00	13.06
202.45	0.66	202.97	0.95	203.49	5.03	204.01	13.24
202.46	0.67	202.98	0.95	203.50	5.16	204.02	13.42
202.47	0.68	202.99	0.96	203.51	5.29	204.03	13.61
202.48	0.68	203.00	0.96	203.52	5.43	204.04	13.79
202.49	0.69	203.01	0.97	203.53	5.56	204.05	13.97
202.50	0.69	203.02	0.97	203.54	5.70	204.06	14.16
202.51	0.70	203.03	0.98	203.55	5.83	204.07	14.34
202.52	0.71	203.04	0.98	203.56	5.97	204.08	14.53
202.53	0.71	203.05	1.00	203.57	6.11	204.09	14.71
202.54	0.72	203.06	1.03	203.58	6.25	204.10	14.86
202.55	0.73	203.07	1.06	203.59	6.40	204.11	14.88
202.56	0.73	203.08	1.10	203.60	6.54	204.12	14.91
202.57	0.74	203.09	1.15	203.61	6.68	204.13	14.93
202.58	0.74	203.10	1.20	203.62	6.83	204.14	14.96
202.59	0.75	203.11	1.26	203.63	6.97	204.15	14.98
202.60	0.76	203.12	1.31	203.64	7.12	204.16	15.01
202.61	0.76	203.13	1.37	203.65	7.27	204.17	15.03
202.62	0.77	203.14	1.44	203.66	7.42	204.18	15.05
202.63	0.77	203.15	1.51	203.67	7.57	204.19	15.08
202.64	0.78	203.16	1.58	203.68	7.72	204.20	15.10
202.65	0.79	203.17	1.65	203.69	7.88	204.21	15.13
202.66	0.79	203.18	1.72	203.70	8.03	204.22	15.15
202.67	0.80	203.19	1.80	203.71	8.18	204.23	15.17
202.68	0.80	203.20	1.88	203.72	8.34	204.24	15.20
202.69	0.81	203.21	1.97	203.73	8.50	204.25	15.22
202.70	0.81	203.22	2.05	203.74	8.65	204.26	15.24
202.71	0.82	203.23	2.14	203.75	8.81	204.27	15.27
202.72	0.82	203.24	2.23	203.76	8.97	204.28	15.29
202.73	0.83	203.25	2.32	203.77	9.13	204.29	15.32
202.74	0.83	203.26	2.41	203.78	9.29	204.30	15.34
202.75	0.84	203.27	2.51	203.79	9.46	204.31	15.36
202.76	0.85	203.28	2.61	203.80	9.62	204.32	15.39
202.77	0.85	203.29	2.70	203.81	9.78	204.33	15.41
202.78	0.86	203.30	2.81	203.82	9.95	204.34	15.43
202.79	0.86	203.31	2.91	203.83	10.11	204.35	15.46
202.80	0.87	203.32	3.01	203.84	10.28	204.36	15.48
202.81	0.87	203.33	3.12	203.85	10.45	204.37	15.50
202.82	0.88	203.34	3.23	203.86	10.62	204.38	15.53
202.83	0.88	203.35	3.34	203.87	10.79	204.39	15.55
202.84	0.89	203.36	3.45	203.88	10.96	204.40	15.57
202.85	0.89	203.37	3.56	203.89	11.13	204.41	15.60
202.86	0.90	203.38	3.68	203.90	11.30	204.42	15.62
202.87	0.90	203.39	3.79	203.91	11.47	204.43	15.64
202.88	0.91	203.40	3.91	203.92	11.65	204.44	15.67
202.89	0.91	203.41	4.03	203.93	11.82	204.45	15.69

Stage-Discharge for Pond B-39: Basin #39 (continued)

Elevation (feet)	Primary (cfs)
204.46	15.71
204.47	15.74
204.48	15.76
204.49	15.78
204.50	15.80
204.51	15.94
204.52	16.18
204.53	16.48
204.54	16.83
204.55	17.23
204.56	17.67
204.57	18.14
204.58	18.64
204.59	19.18
204.60	19.75
204.61	20.35
204.62	20.97
204.63	21.62
204.64	22.29
204.65	22.99
204.66	23.71
204.67	24.46
204.68	25.22
204.69	26.01
204.70	26.82
204.71	27.69
204.72	28.58
204.73	29.50
204.74	30.45
204.75	31.42
204.76	32.42
204.77	33.44
204.78	34.48
204.79	35.55
204.80	36.65
204.81	37.76
204.82	38.91
204.83	40.08
204.84	41.27
204.85	42.48
204.86	43.72
204.87	44.99
204.88	46.28
204.89	47.59
204.90	48.93
204.91	50.31
204.92	51.73
204.93	53.17
204.94	54.63
204.95	56.12
204.96	57.64
204.97	59.19
204.98	60.76
204.99	62.35
205.00	**63.98**

Stage-Area-Storage for Pond B-39: Basin #39

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.30	0	0	200.82	2,175	566
200.31	42	0	200.83	2,217	587
200.32	84	1	200.84	2,259	610
200.33	125	2	200.85	2,301	633
200.34	167	3	200.86	2,342	656
200.35	209	5	200.87	2,384	680
200.36	251	8	200.88	2,426	704
200.37	293	10	200.89	2,468	728
200.38	335	13	200.90	2,510	753
200.39	376	17	200.91	2,552	778
200.40	418	21	200.92	2,593	804
200.41	460	25	200.93	2,635	830
200.42	502	30	200.94	2,677	857
200.43	544	35	200.95	2,719	884
200.44	586	41	200.96	2,761	911
200.45	627	47	200.97	2,803	939
200.46	669	54	200.98	2,844	967
200.47	711	60	200.99	2,886	996
200.48	753	68	201.00	2,928	1,025
200.49	795	76	201.01	2,933	1,054
200.50	837	84	201.02	2,938	1,083
200.51	878	92	201.03	2,942	1,113
200.52	920	101	201.04	2,947	1,142
200.53	962	111	201.05	2,952	1,172
200.54	1,004	120	201.06	2,957	1,201
200.55	1,046	131	201.07	2,962	1,231
200.56	1,088	141	201.08	2,966	1,261
200.57	1,129	152	201.09	2,971	1,290
200.58	1,171	164	201.10	2,976	1,320
200.59	1,213	176	201.11	2,981	1,350
200.60	1,255	188	201.12	2,986	1,380
200.61	1,297	201	201.13	2,990	1,409
200.62	1,339	214	201.14	2,995	1,439
200.63	1,380	228	201.15	3,000	1,469
200.64	1,422	242	201.16	3,005	1,499
200.65	1,464	256	201.17	3,010	1,529
200.66	1,506	271	201.18	3,014	1,560
200.67	1,548	286	201.19	3,019	1,590
200.68	1,589	302	201.20	3,024	1,620
200.69	1,631	318	201.21	3,029	1,650
200.70	1,673	335	201.22	3,034	1,681
200.71	1,715	352	201.23	3,038	1,711
200.72	1,757	369	201.24	3,043	1,741
200.73	1,799	387	201.25	3,048	1,772
200.74	1,840	405	201.26	3,053	1,802
200.75	1,882	424	201.27	3,058	1,833
200.76	1,924	443	201.28	3,062	1,863
200.77	1,966	462	201.29	3,067	1,894
200.78	2,008	482	201.30	3,072	1,925
200.79	2,050	502	201.31	3,077	1,956
200.80	2,091	523	201.32	3,082	1,986
200.81	2,133	544	201.33	3,086	2,017

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.34	3,091	2,048	201.86	3,341	3,720
201.35	3,096	2,079	201.87	3,346	3,754
201.36	3,101	2,110	201.88	3,350	3,787
201.37	3,106	2,141	201.89	3,355	3,821
201.38	3,110	2,172	201.90	3,360	3,854
201.39	3,115	2,203	201.91	3,365	3,888
201.40	3,120	2,234	201.92	3,370	3,922
201.41	3,125	2,266	201.93	3,374	3,955
201.42	3,130	2,297	201.94	3,379	3,989
201.43	3,134	2,328	201.95	3,384	4,023
201.44	3,139	2,360	201.96	3,389	4,057
201.45	3,144	2,391	201.97	3,394	4,091
201.46	3,149	2,422	201.98	3,398	4,125
201.47	3,154	2,454	201.99	3,403	4,159
201.48	3,158	2,486	202.00	3,408	4,193
201.49	3,163	2,517	202.01	3,413	4,227
201.50	3,168	2,549	202.02	3,418	4,261
201.51	3,173	2,581	202.03	3,423	4,295
201.52	3,178	2,612	202.04	3,428	4,330
201.53	3,182	2,644	202.05	3,433	4,364
201.54	3,187	2,676	202.06	3,439	4,398
201.55	3,192	2,708	202.07	3,444	4,433
201.56	3,197	2,740	202.08	3,449	4,467
201.57	3,202	2,772	202.09	3,454	4,502
201.58	3,206	2,804	202.10	3,459	4,536
201.59	3,211	2,836	202.11	3,464	4,571
201.60	3,216	2,868	202.12	3,469	4,605
201.61	3,221	2,900	202.13	3,474	4,640
201.62	3,226	2,932	202.14	3,479	4,675
201.63	3,230	2,965	202.15	3,484	4,710
201.64	3,235	2,997	202.16	3,489	4,745
201.65	3,240	3,029	202.17	3,495	4,780
201.66	3,245	3,062	202.18	3,500	4,814
201.67	3,250	3,094	202.19	3,505	4,850
201.68	3,254	3,127	202.20	3,510	4,885
201.69	3,259	3,159	202.21	3,515	4,920
201.70	3,264	3,192	202.22	3,520	4,955
201.71	3,269	3,225	202.23	3,525	4,990
201.72	3,274	3,257	202.24	3,530	5,025
201.73	3,278	3,290	202.25	3,535	5,061
201.74	3,283	3,323	202.26	3,540	5,096
201.75	3,288	3,356	202.27	3,545	5,132
201.76	3,293	3,389	202.28	3,551	5,167
201.77	3,298	3,422	202.29	3,556	5,203
201.78	3,302	3,455	202.30	3,561	5,238
201.79	3,307	3,488	202.31	3,566	5,274
201.80	3,312	3,521	202.32	3,571	5,309
201.81	3,317	3,554	202.33	3,576	5,345
201.82	3,322	3,587	202.34	3,581	5,381
201.83	3,326	3,620	202.35	3,586	5,417
201.84	3,331	3,654	202.36	3,591	5,453
201.85	3,336	3,687	202.37	3,596	5,489

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.38	3,601	5,525	202.90	3,866	7,466
202.39	3,607	5,561	202.91	3,871	7,505
202.40	3,612	5,597	202.92	3,876	7,544
202.41	3,617	5,633	202.93	3,881	7,582
202.42	3,622	5,669	202.94	3,886	7,621
202.43	3,627	5,705	202.95	3,892	7,660
202.44	3,632	5,742	202.96	3,897	7,699
202.45	3,637	5,778	202.97	3,902	7,738
202.46	3,642	5,814	202.98	3,907	7,777
202.47	3,647	5,851	202.99	3,912	7,816
202.48	3,652	5,887	203.00	3,917	7,855
202.49	3,657	5,924	203.01	3,922	7,894
202.50	3,663	5,960	203.02	3,928	7,934
202.51	3,668	5,997	203.03	3,933	7,973
202.52	3,673	6,034	203.04	3,938	8,012
202.53	3,678	6,071	203.05	3,944	8,052
202.54	3,683	6,107	203.06	3,949	8,091
202.55	3,688	6,144	203.07	3,955	8,131
202.56	3,693	6,181	203.08	3,960	8,170
202.57	3,698	6,218	203.09	3,965	8,210
202.58	3,703	6,255	203.10	3,971	8,250
202.59	3,708	6,292	203.11	3,976	8,289
202.60	3,713	6,329	203.12	3,981	8,329
202.61	3,718	6,366	203.13	3,987	8,369
202.62	3,724	6,404	203.14	3,992	8,409
202.63	3,729	6,441	203.15	3,998	8,449
202.64	3,734	6,478	203.16	4,003	8,489
202.65	3,739	6,516	203.17	4,008	8,529
202.66	3,744	6,553	203.18	4,014	8,569
202.67	3,749	6,590	203.19	4,019	8,609
202.68	3,754	6,628	203.20	4,024	8,649
202.69	3,759	6,665	203.21	4,030	8,690
202.70	3,764	6,703	203.22	4,035	8,730
202.71	3,769	6,741	203.23	4,041	8,770
202.72	3,774	6,778	203.24	4,046	8,811
202.73	3,780	6,816	203.25	4,051	8,851
202.74	3,785	6,854	203.26	4,057	8,892
202.75	3,790	6,892	203.27	4,062	8,932
202.76	3,795	6,930	203.28	4,067	8,973
202.77	3,800	6,968	203.29	4,073	9,014
202.78	3,805	7,006	203.30	4,078	9,055
202.79	3,810	7,044	203.31	4,083	9,095
202.80	3,815	7,082	203.32	4,089	9,136
202.81	3,820	7,120	203.33	4,094	9,177
202.82	3,825	7,158	203.34	4,100	9,218
202.83	3,830	7,197	203.35	4,105	9,259
202.84	3,836	7,235	203.36	4,110	9,300
202.85	3,841	7,273	203.37	4,116	9,341
202.86	3,846	7,312	203.38	4,121	9,383
202.87	3,851	7,350	203.39	4,126	9,424
202.88	3,856	7,389	203.40	4,132	9,465
202.89	3,861	7,428	203.41	4,137	9,506

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.42	4,143	9,548	203.94	4,422	11,775
203.43	4,148	9,589	203.95	4,427	11,819
203.44	4,153	9,631	203.96	4,433	11,863
203.45	4,159	9,672	203.97	4,438	11,907
203.46	4,164	9,714	203.98	4,443	11,952
203.47	4,169	9,756	203.99	4,449	11,996
203.48	4,175	9,797	204.00	4,454	12,041
203.49	4,180	9,839	204.01	4,460	12,085
203.50	4,186	9,881	204.02	4,465	12,130
203.51	4,191	9,923	204.03	4,471	12,175
203.52	4,196	9,965	204.04	4,477	12,219
203.53	4,202	10,007	204.05	4,482	12,264
203.54	4,207	10,049	204.06	4,488	12,309
203.55	4,212	10,091	204.07	4,494	12,354
203.56	4,218	10,133	204.08	4,499	12,399
203.57	4,223	10,175	204.09	4,505	12,444
203.58	4,228	10,217	204.10	4,511	12,489
203.59	4,234	10,260	204.11	4,516	12,534
203.60	4,239	10,302	204.12	4,522	12,579
203.61	4,245	10,345	204.13	4,527	12,625
203.62	4,250	10,387	204.14	4,533	12,670
203.63	4,255	10,430	204.15	4,539	12,715
203.64	4,261	10,472	204.16	4,544	12,761
203.65	4,266	10,515	204.17	4,550	12,806
203.66	4,271	10,557	204.18	4,556	12,852
203.67	4,277	10,600	204.19	4,561	12,897
203.68	4,282	10,643	204.20	4,567	12,943
203.69	4,288	10,686	204.21	4,573	12,989
203.70	4,293	10,729	204.22	4,578	13,034
203.71	4,298	10,772	204.23	4,584	13,080
203.72	4,304	10,815	204.24	4,590	13,126
203.73	4,309	10,858	204.25	4,595	13,172
203.74	4,314	10,901	204.26	4,601	13,218
203.75	4,320	10,944	204.27	4,607	13,264
203.76	4,325	10,987	204.28	4,612	13,310
203.77	4,330	11,031	204.29	4,618	13,356
203.78	4,336	11,074	204.30	4,624	13,402
203.79	4,341	11,117	204.31	4,629	13,449
203.80	4,347	11,161	204.32	4,635	13,495
203.81	4,352	11,204	204.33	4,640	13,541
203.82	4,357	11,248	204.34	4,646	13,588
203.83	4,363	11,291	204.35	4,652	13,634
203.84	4,368	11,335	204.36	4,657	13,681
203.85	4,373	11,379	204.37	4,663	13,727
203.86	4,379	11,423	204.38	4,669	13,774
203.87	4,384	11,466	204.39	4,674	13,821
203.88	4,390	11,510	204.40	4,680	13,868
203.89	4,395	11,554	204.41	4,686	13,914
203.90	4,400	11,598	204.42	4,691	13,961
203.91	4,406	11,642	204.43	4,697	14,008
203.92	4,411	11,686	204.44	4,703	14,055
203.93	4,416	11,730	204.45	4,708	14,102

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.46	4,714	14,149
204.47	4,720	14,197
204.48	4,725	14,244
204.49	4,731	14,291
204.50	4,737	14,338
204.51	4,742	14,386
204.52	4,748	14,433
204.53	4,753	14,481
204.54	4,759	14,528
204.55	4,765	14,576
204.56	4,770	14,624
204.57	4,776	14,671
204.58	4,782	14,719
204.59	4,787	14,767
204.60	4,793	14,815
204.61	4,799	14,863
204.62	4,804	14,911
204.63	4,810	14,959
204.64	4,816	15,007
204.65	4,821	15,055
204.66	4,827	15,103
204.67	4,833	15,152
204.68	4,838	15,200
204.69	4,844	15,249
204.70	4,850	15,297
204.71	4,855	15,346
204.72	4,861	15,394
204.73	4,866	15,443
204.74	4,872	15,491
204.75	4,878	15,540
204.76	4,883	15,589
204.77	4,889	15,638
204.78	4,895	15,687
204.79	4,900	15,736
204.80	4,906	15,785
204.81	4,912	15,834
204.82	4,917	15,883
204.83	4,923	15,932
204.84	4,929	15,981
204.85	4,934	16,031
204.86	4,940	16,080
204.87	4,946	16,130
204.88	4,951	16,179
204.89	4,957	16,229
204.90	4,963	16,278
204.91	4,968	16,328
204.92	4,974	16,378
204.93	4,979	16,427
204.94	4,985	16,477
204.95	4,991	16,527
204.96	4,996	16,577
204.97	5,002	16,627
204.98	5,008	16,677
204.99	5,013	16,727
205.00	**5,019**	**16,777**

Summary for Pond B-40: Basin #40

Inflow Area = 1.888 ac, 47.19% Impervious, Inflow Depth = 4.26" for Future 10 yr event
Inflow = 8.13 cfs @ 12.17 hrs, Volume= 0.671 af
Outflow = 4.66 cfs @ 12.31 hrs, Volume= 0.588 af, Atten= 43%, Lag= 8.4 min
Primary = 4.66 cfs @ 12.31 hrs, Volume= 0.588 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 203.84' @ 12.31 hrs Surf.Area= 4,206 sf Storage= 8,346 cf

Plug-Flow detention time= 125.1 min calculated for 0.588 af (88% of inflow)
Center-of-Mass det. time= 65.2 min (848.1 - 782.9)

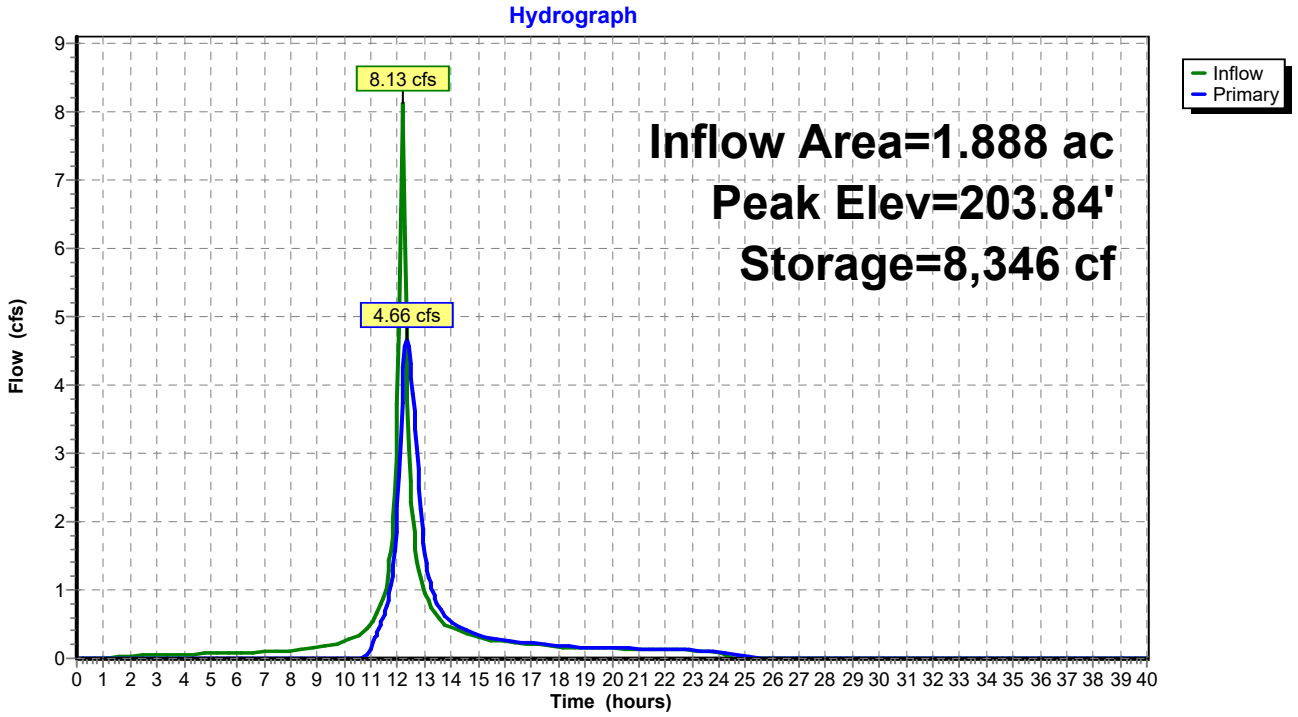
Volume	Invert	Avail.Storage	Storage Description
#1	201.30'	18,339 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
201.30	0	0	0
202.00	3,521	1,232	1,232
203.00	3,886	3,704	4,936
204.00	4,266	4,076	9,012
205.00	4,660	4,463	13,475
206.00	5,069	4,865	18,339

Device	Routing	Invert	Outlet Devices
#1	Primary	201.30'	**18.0" Round Culvert** L= 38.0' Ke= 0.500 Inlet / Outlet Invert= 201.30' / 201.11' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	202.65'	**24.0" W x 6.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	204.67'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	205.49'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=4.65 cfs @ 12.31 hrs HW=203.84' (Free Discharge)
- **1=Culvert** (Passes 4.65 cfs of 10.61 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 4.65 cfs @ 4.65 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-40: Basin #40



Stage-Discharge for Pond B-40: Basin #40

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.30	0.00	201.82	0.00	202.34	0.00	202.86	0.62
201.31	0.00	201.83	0.00	202.35	0.00	202.87	0.66
201.32	0.00	201.84	0.00	202.36	0.00	202.88	0.71
201.33	0.00	201.85	0.00	202.37	0.00	202.89	0.75
201.34	0.00	201.86	0.00	202.38	0.00	202.90	0.80
201.35	0.00	201.87	0.00	202.39	0.00	202.91	0.85
201.36	0.00	201.88	0.00	202.40	0.00	202.92	0.90
201.37	0.00	201.89	0.00	202.41	0.00	202.93	0.95
201.38	0.00	201.90	0.00	202.42	0.00	202.94	1.00
201.39	0.00	201.91	0.00	202.43	0.00	202.95	1.05
201.40	0.00	201.92	0.00	202.44	0.00	202.96	1.11
201.41	0.00	201.93	0.00	202.45	0.00	202.97	1.16
201.42	0.00	201.94	0.00	202.46	0.00	202.98	1.22
201.43	0.00	201.95	0.00	202.47	0.00	202.99	1.27
201.44	0.00	201.96	0.00	202.48	0.00	203.00	1.33
201.45	0.00	201.97	0.00	202.49	0.00	203.01	1.39
201.46	0.00	201.98	0.00	202.50	0.00	203.02	1.44
201.47	0.00	201.99	0.00	202.51	0.00	203.03	1.50
201.48	0.00	202.00	0.00	202.52	0.00	203.04	1.56
201.49	0.00	202.01	0.00	202.53	0.00	203.05	1.62
201.50	0.00	202.02	0.00	202.54	0.00	203.06	1.69
201.51	0.00	202.03	0.00	202.55	0.00	203.07	1.75
201.52	0.00	202.04	0.00	202.56	0.00	203.08	1.81
201.53	0.00	202.05	0.00	202.57	0.00	203.09	1.87
201.54	0.00	202.06	0.00	202.58	0.00	203.10	1.94
201.55	0.00	202.07	0.00	202.59	0.00	203.11	2.00
201.56	0.00	202.08	0.00	202.60	0.00	203.12	2.07
201.57	0.00	202.09	0.00	202.61	0.00	203.13	2.13
201.58	0.00	202.10	0.00	202.62	0.00	203.14	2.20
201.59	0.00	202.11	0.00	202.63	0.00	203.15	2.27
201.60	0.00	202.12	0.00	202.64	0.00	203.16	2.33
201.61	0.00	202.13	0.00	202.65	0.00	203.17	2.39
201.62	0.00	202.14	0.00	202.66	0.01	203.18	2.44
201.63	0.00	202.15	0.00	202.67	0.02	203.19	2.50
201.64	0.00	202.16	0.00	202.68	0.03	203.20	2.55
201.65	0.00	202.17	0.00	202.69	0.05	203.21	2.60
201.66	0.00	202.18	0.00	202.70	0.07	203.22	2.64
201.67	0.00	202.19	0.00	202.71	0.09	203.23	2.69
201.68	0.00	202.20	0.00	202.72	0.12	203.24	2.74
201.69	0.00	202.21	0.00	202.73	0.15	203.25	2.78
201.70	0.00	202.22	0.00	202.74	0.17	203.26	2.82
201.71	0.00	202.23	0.00	202.75	0.20	203.27	2.87
201.72	0.00	202.24	0.00	202.76	0.23	203.28	2.91
201.73	0.00	202.25	0.00	202.77	0.27	203.29	2.95
201.74	0.00	202.26	0.00	202.78	0.30	203.30	2.99
201.75	0.00	202.27	0.00	202.79	0.34	203.31	3.03
201.76	0.00	202.28	0.00	202.80	0.37	203.32	3.07
201.77	0.00	202.29	0.00	202.81	0.41	203.33	3.11
201.78	0.00	202.30	0.00	202.82	0.45	203.34	3.15
201.79	0.00	202.31	0.00	202.83	0.49	203.35	3.19
201.80	0.00	202.32	0.00	202.84	0.53	203.36	3.22
201.81	0.00	202.33	0.00	202.85	0.57	203.37	3.26

Stage-Discharge for Pond B-40: Basin #40 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.38	3.30	203.90	4.80	204.42	5.93	204.94	8.68
203.39	3.33	203.91	4.83	204.43	5.95	204.95	8.80
203.40	3.37	203.92	4.85	204.44	5.97	204.96	8.92
203.41	3.40	203.93	4.87	204.45	5.99	204.97	9.04
203.42	3.44	203.94	4.90	204.46	6.01	204.98	9.16
203.43	3.47	203.95	4.92	204.47	6.03	204.99	9.29
203.44	3.51	203.96	4.95	204.48	6.05	205.00	9.41
203.45	3.54	203.97	4.97	204.49	6.07	205.01	9.54
203.46	3.57	203.98	4.99	204.50	6.08	205.02	9.67
203.47	3.60	203.99	5.02	204.51	6.10	205.03	9.80
203.48	3.64	204.00	5.04	204.52	6.12	205.04	9.93
203.49	3.67	204.01	5.06	204.53	6.14	205.05	10.06
203.50	3.70	204.02	5.09	204.54	6.16	205.06	10.20
203.51	3.73	204.03	5.11	204.55	6.18	205.07	10.33
203.52	3.76	204.04	5.13	204.56	6.20	205.08	10.47
203.53	3.80	204.05	5.15	204.57	6.22	205.09	10.61
203.54	3.83	204.06	5.18	204.58	6.24	205.10	10.75
203.55	3.86	204.07	5.20	204.59	6.25	205.11	10.89
203.56	3.89	204.08	5.22	204.60	6.27	205.12	11.03
203.57	3.92	204.09	5.24	204.61	6.29	205.13	11.17
203.58	3.95	204.10	5.26	204.62	6.31	205.14	11.32
203.59	3.98	204.11	5.29	204.63	6.33	205.15	11.46
203.60	4.01	204.12	5.31	204.64	6.35	205.16	11.61
203.61	4.04	204.13	5.33	204.65	6.36	205.17	11.76
203.62	4.06	204.14	5.35	204.66	6.38	205.18	11.91
203.63	4.09	204.15	5.37	204.67	6.40	205.19	12.06
203.64	4.12	204.16	5.40	204.68	6.43	205.20	12.21
203.65	4.15	204.17	5.42	204.69	6.47	205.21	12.36
203.66	4.18	204.18	5.44	204.70	6.52	205.22	12.52
203.67	4.21	204.19	5.46	204.71	6.58	205.23	12.67
203.68	4.23	204.20	5.48	204.72	6.64	205.24	12.83
203.69	4.26	204.21	5.50	204.73	6.70	205.25	12.99
203.70	4.29	204.22	5.52	204.74	6.77	205.26	13.15
203.71	4.32	204.23	5.54	204.75	6.84	205.27	13.31
203.72	4.34	204.24	5.57	204.76	6.91	205.28	13.47
203.73	4.37	204.25	5.59	204.77	6.99	205.29	13.63
203.74	4.40	204.26	5.61	204.78	7.07	205.30	13.79
203.75	4.42	204.27	5.63	204.79	7.16	205.31	13.95
203.76	4.45	204.28	5.65	204.80	7.24	205.32	14.12
203.77	4.48	204.29	5.67	204.81	7.33	205.33	14.28
203.78	4.50	204.30	5.69	204.82	7.42	205.34	14.45
203.79	4.53	204.31	5.71	204.83	7.51	205.35	14.62
203.80	4.55	204.32	5.73	204.84	7.61	205.36	14.79
203.81	4.58	204.33	5.75	204.85	7.71	205.37	14.96
203.82	4.60	204.34	5.77	204.86	7.81	205.38	15.13
203.83	4.63	204.35	5.79	204.87	7.91	205.39	15.30
203.84	4.65	204.36	5.81	204.88	8.02	205.40	15.47
203.85	4.68	204.37	5.83	204.89	8.12	205.41	15.60
203.86	4.70	204.38	5.85	204.90	8.23	205.42	15.62
203.87	4.73	204.39	5.87	204.91	8.34	205.43	15.64
203.88	4.75	204.40	5.89	204.92	8.45	205.44	15.67
203.89	4.78	204.41	5.91	204.93	8.57	205.45	15.69

Stage-Discharge for Pond B-40: Basin #40 (continued)

Elevation (feet)	Primary (cfs)
205.46	15.71
205.47	15.74
205.48	15.76
205.49	15.78
205.50	15.92
205.51	16.16
205.52	16.46
205.53	16.81
205.54	17.21
205.55	17.64
205.56	18.12
205.57	18.62
205.58	19.16
205.59	19.73
205.60	20.32
205.61	20.95
205.62	21.60
205.63	22.27
205.64	22.97
205.65	23.69
205.66	24.43
205.67	25.20
205.68	25.99
205.69	26.80
205.70	27.67
205.71	28.56
205.72	29.48
205.73	30.43
205.74	31.40
205.75	32.39
205.76	33.41
205.77	34.46
205.78	35.53
205.79	36.62
205.80	37.74
205.81	38.89
205.82	40.05
205.83	41.25
205.84	42.46
205.85	43.70
205.86	44.97
205.87	46.25
205.88	47.57
205.89	48.90
205.90	50.29
205.91	51.70
205.92	53.14
205.93	54.61
205.94	56.10
205.95	57.62
205.96	59.16
205.97	60.73
205.98	62.33
205.99	63.95
206.00	**65.60**

Stage-Area-Storage for Pond B-40: Basin #40

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.30	0	0	201.82	2,616	680
201.31	50	0	201.83	2,666	706
201.32	101	1	201.84	2,716	733
201.33	151	2	201.85	2,767	761
201.34	201	4	201.86	2,817	789
201.35	252	6	201.87	2,867	817
201.36	302	9	201.88	2,917	846
201.37	352	12	201.89	2,968	875
201.38	402	16	201.90	3,018	905
201.39	453	20	201.91	3,068	936
201.40	503	25	201.92	3,119	967
201.41	553	30	201.93	3,169	998
201.42	604	36	201.94	3,219	1,030
201.43	654	43	201.95	3,270	1,063
201.44	704	49	201.96	3,320	1,096
201.45	755	57	201.97	3,370	1,129
201.46	805	64	201.98	3,420	1,163
201.47	855	73	201.99	3,471	1,197
201.48	905	81	202.00	3,521	1,232
201.49	956	91	202.01	3,525	1,268
201.50	1,006	101	202.02	3,528	1,303
201.51	1,056	111	202.03	3,532	1,338
201.52	1,107	122	202.04	3,536	1,373
201.53	1,157	133	202.05	3,539	1,409
201.54	1,207	145	202.06	3,543	1,444
201.55	1,258	157	202.07	3,547	1,480
201.56	1,308	170	202.08	3,550	1,515
201.57	1,358	183	202.09	3,554	1,551
201.58	1,408	197	202.10	3,558	1,586
201.59	1,459	212	202.11	3,561	1,622
201.60	1,509	226	202.12	3,565	1,657
201.61	1,559	242	202.13	3,568	1,693
201.62	1,610	258	202.14	3,572	1,729
201.63	1,660	274	202.15	3,576	1,765
201.64	1,710	291	202.16	3,579	1,800
201.65	1,761	308	202.17	3,583	1,836
201.66	1,811	326	202.18	3,587	1,872
201.67	1,861	344	202.19	3,590	1,908
201.68	1,911	363	202.20	3,594	1,944
201.69	1,962	383	202.21	3,598	1,980
201.70	2,012	402	202.22	3,601	2,016
201.71	2,062	423	202.23	3,605	2,052
201.72	2,113	444	202.24	3,609	2,088
201.73	2,163	465	202.25	3,612	2,124
201.74	2,213	487	202.26	3,616	2,160
201.75	2,263	509	202.27	3,620	2,196
201.76	2,314	532	202.28	3,623	2,233
201.77	2,364	556	202.29	3,627	2,269
201.78	2,414	579	202.30	3,631	2,305
201.79	2,465	604	202.31	3,634	2,341
201.80	2,515	629	202.32	3,638	2,378
201.81	2,565	654	202.33	3,641	2,414

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.34	3,645	2,451	202.86	3,835	4,395
202.35	3,649	2,487	202.87	3,839	4,434
202.36	3,652	2,524	202.88	3,842	4,472
202.37	3,656	2,560	202.89	3,846	4,511
202.38	3,660	2,597	202.90	3,850	4,549
202.39	3,663	2,633	202.91	3,853	4,588
202.40	3,667	2,670	202.92	3,857	4,626
202.41	3,671	2,707	202.93	3,860	4,665
202.42	3,674	2,743	202.94	3,864	4,703
202.43	3,678	2,780	202.95	3,868	4,742
202.44	3,682	2,817	202.96	3,871	4,781
202.45	3,685	2,854	202.97	3,875	4,819
202.46	3,689	2,891	202.98	3,879	4,858
202.47	3,693	2,928	202.99	3,882	4,897
202.48	3,696	2,964	203.00	3,886	4,936
202.49	3,700	3,001	203.01	3,890	4,975
202.50	3,704	3,038	203.02	3,894	5,014
202.51	3,707	3,076	203.03	3,897	5,053
202.52	3,711	3,113	203.04	3,901	5,092
202.53	3,714	3,150	203.05	3,905	5,131
202.54	3,718	3,187	203.06	3,909	5,170
202.55	3,722	3,224	203.07	3,913	5,209
202.56	3,725	3,261	203.08	3,916	5,248
202.57	3,729	3,299	203.09	3,920	5,287
202.58	3,733	3,336	203.10	3,924	5,326
202.59	3,736	3,373	203.11	3,928	5,366
202.60	3,740	3,411	203.12	3,932	5,405
202.61	3,744	3,448	203.13	3,935	5,444
202.62	3,747	3,486	203.14	3,939	5,484
202.63	3,751	3,523	203.15	3,943	5,523
202.64	3,755	3,561	203.16	3,947	5,562
202.65	3,758	3,598	203.17	3,951	5,602
202.66	3,762	3,636	203.18	3,954	5,641
202.67	3,766	3,673	203.19	3,958	5,681
202.68	3,769	3,711	203.20	3,962	5,721
202.69	3,773	3,749	203.21	3,966	5,760
202.70	3,777	3,786	203.22	3,970	5,800
202.71	3,780	3,824	203.23	3,973	5,840
202.72	3,784	3,862	203.24	3,977	5,879
202.73	3,787	3,900	203.25	3,981	5,919
202.74	3,791	3,938	203.26	3,985	5,959
202.75	3,795	3,976	203.27	3,989	5,999
202.76	3,798	4,014	203.28	3,992	6,039
202.77	3,802	4,052	203.29	3,996	6,079
202.78	3,806	4,090	203.30	4,000	6,119
202.79	3,809	4,128	203.31	4,004	6,159
202.80	3,813	4,166	203.32	4,008	6,199
202.81	3,817	4,204	203.33	4,011	6,239
202.82	3,820	4,242	203.34	4,015	6,279
202.83	3,824	4,281	203.35	4,019	6,319
202.84	3,828	4,319	203.36	4,023	6,359
202.85	3,831	4,357	203.37	4,027	6,400

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.38	4,030	6,440
203.39	4,034	6,480
203.40	4,038	6,521
203.41	4,042	6,561
203.42	4,046	6,601
203.43	4,049	6,642
203.44	4,053	6,682
203.45	4,057	6,723
203.46	4,061	6,764
203.47	4,065	6,804
203.48	4,068	6,845
203.49	4,072	6,886
203.50	4,076	6,926
203.51	4,080	6,967
203.52	4,084	7,008
203.53	4,087	7,049
203.54	4,091	7,090
203.55	4,095	7,131
203.56	4,099	7,172
203.57	4,103	7,213
203.58	4,106	7,254
203.59	4,110	7,295
203.60	4,114	7,336
203.61	4,118	7,377
203.62	4,122	7,418
203.63	4,125	7,459
203.64	4,129	7,501
203.65	4,133	7,542
203.66	4,137	7,583
203.67	4,141	7,625
203.68	4,144	7,666
203.69	4,148	7,708
203.70	4,152	7,749
203.71	4,156	7,791
203.72	4,160	7,832
203.73	4,163	7,874
203.74	4,167	7,916
203.75	4,171	7,957
203.76	4,175	7,999
203.77	4,179	8,041
203.78	4,182	8,083
203.79	4,186	8,124
203.80	4,190	8,166
203.81	4,194	8,208
203.82	4,198	8,250
203.83	4,201	8,292
203.84	4,205	8,334
203.85	4,209	8,376
203.86	4,213	8,418
203.87	4,217	8,460
203.88	4,220	8,503
203.89	4,224	8,545
203.90	4,228	8,587
203.91	4,232	8,629
203.92	4,236	8,672
203.93	4,239	8,714
203.94	4,243	8,757
203.95	4,247	8,799
203.96	4,251	8,842
203.97	4,255	8,884
203.98	4,258	8,927
203.99	4,262	8,969
204.00	4,266	9,012
204.01	4,270	9,055
204.02	4,274	9,097
204.03	4,278	9,140
204.04	4,282	9,183
204.05	4,286	9,226
204.06	4,290	9,269
204.07	4,294	9,311
204.08	4,298	9,354
204.09	4,301	9,397
204.10	4,305	9,440
204.11	4,309	9,483
204.12	4,313	9,527
204.13	4,317	9,570
204.14	4,321	9,613
204.15	4,325	9,656
204.16	4,329	9,699
204.17	4,333	9,743
204.18	4,337	9,786
204.19	4,341	9,830
204.20	4,345	9,873
204.21	4,349	9,916
204.22	4,353	9,960
204.23	4,357	10,003
204.24	4,361	10,047
204.25	4,365	10,091
204.26	4,368	10,134
204.27	4,372	10,178
204.28	4,376	10,222
204.29	4,380	10,266
204.30	4,384	10,309
204.31	4,388	10,353
204.32	4,392	10,397
204.33	4,396	10,441
204.34	4,400	10,485
204.35	4,404	10,529
204.36	4,408	10,573
204.37	4,412	10,617
204.38	4,416	10,661
204.39	4,420	10,706
204.40	4,424	10,750
204.41	4,428	10,794

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.42	4,431	10,838	204.94	4,636	13,196
204.43	4,435	10,883	204.95	4,640	13,242
204.44	4,439	10,927	204.96	4,644	13,289
204.45	4,443	10,971	204.97	4,648	13,335
204.46	4,447	11,016	204.98	4,652	13,382
204.47	4,451	11,060	204.99	4,656	13,428
204.48	4,455	11,105	205.00	4,660	13,475
204.49	4,459	11,149	205.01	4,664	13,521
204.50	4,463	11,194	205.02	4,668	13,568
204.51	4,467	11,239	205.03	4,672	13,615
204.52	4,471	11,283	205.04	4,676	13,662
204.53	4,475	11,328	205.05	4,680	13,708
204.54	4,479	11,373	205.06	4,685	13,755
204.55	4,483	11,418	205.07	4,689	13,802
204.56	4,487	11,463	205.08	4,693	13,849
204.57	4,491	11,507	205.09	4,697	13,896
204.58	4,495	11,552	205.10	4,701	13,943
204.59	4,498	11,597	205.11	4,705	13,990
204.60	4,502	11,642	205.12	4,709	14,037
204.61	4,506	11,687	205.13	4,713	14,084
204.62	4,510	11,732	205.14	4,717	14,131
204.63	4,514	11,778	205.15	4,721	14,178
204.64	4,518	11,823	205.16	4,725	14,226
204.65	4,522	11,868	205.17	4,730	14,273
204.66	4,526	11,913	205.18	4,734	14,320
204.67	4,530	11,959	205.19	4,738	14,368
204.68	4,534	12,004	205.20	4,742	14,415
204.69	4,538	12,049	205.21	4,746	14,462
204.70	4,542	12,095	205.22	4,750	14,510
204.71	4,546	12,140	205.23	4,754	14,557
204.72	4,550	12,185	205.24	4,758	14,605
204.73	4,554	12,231	205.25	4,762	14,653
204.74	4,558	12,277	205.26	4,766	14,700
204.75	4,562	12,322	205.27	4,770	14,748
204.76	4,565	12,368	205.28	4,775	14,796
204.77	4,569	12,413	205.29	4,779	14,843
204.78	4,573	12,459	205.30	4,783	14,891
204.79	4,577	12,505	205.31	4,787	14,939
204.80	4,581	12,551	205.32	4,791	14,987
204.81	4,585	12,597	205.33	4,795	15,035
204.82	4,589	12,642	205.34	4,799	15,083
204.83	4,593	12,688	205.35	4,803	15,131
204.84	4,597	12,734	205.36	4,807	15,179
204.85	4,601	12,780	205.37	4,811	15,227
204.86	4,605	12,826	205.38	4,815	15,275
204.87	4,609	12,872	205.39	4,820	15,323
204.88	4,613	12,918	205.40	4,824	15,372
204.89	4,617	12,965	205.41	4,828	15,420
204.90	4,621	13,011	205.42	4,832	15,468
204.91	4,625	13,057	205.43	4,836	15,516
204.92	4,628	13,103	205.44	4,840	15,565
204.93	4,632	13,150	205.45	4,844	15,613

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

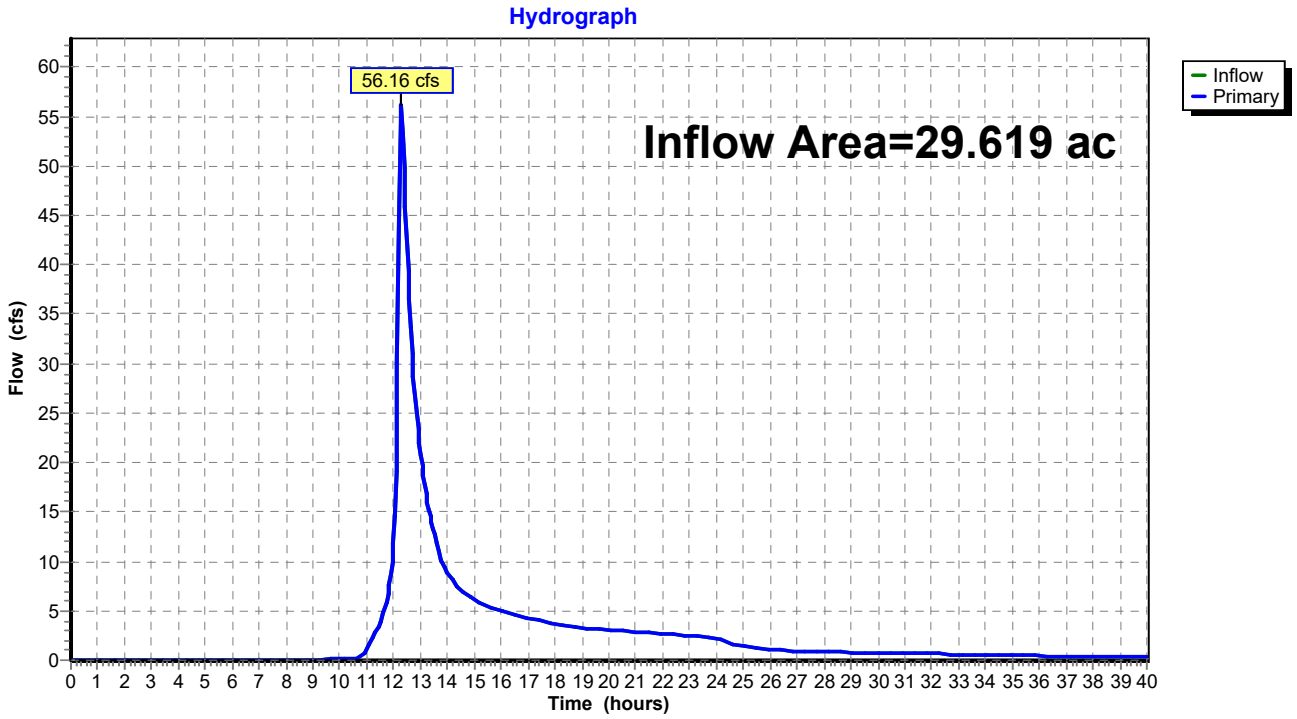
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.46	4,848	15,662
205.47	4,852	15,710
205.48	4,856	15,759
205.49	4,860	15,807
205.50	4,865	15,856
205.51	4,869	15,905
205.52	4,873	15,953
205.53	4,877	16,002
205.54	4,881	16,051
205.55	4,885	16,100
205.56	4,889	16,149
205.57	4,893	16,197
205.58	4,897	16,246
205.59	4,901	16,295
205.60	4,905	16,344
205.61	4,909	16,394
205.62	4,914	16,443
205.63	4,918	16,492
205.64	4,922	16,541
205.65	4,926	16,590
205.66	4,930	16,640
205.67	4,934	16,689
205.68	4,938	16,738
205.69	4,942	16,788
205.70	4,946	16,837
205.71	4,950	16,887
205.72	4,954	16,936
205.73	4,959	16,986
205.74	4,963	17,035
205.75	4,967	17,085
205.76	4,971	17,135
205.77	4,975	17,184
205.78	4,979	17,234
205.79	4,983	17,284
205.80	4,987	17,334
205.81	4,991	17,384
205.82	4,995	17,434
205.83	4,999	17,484
205.84	5,004	17,534
205.85	5,008	17,584
205.86	5,012	17,634
205.87	5,016	17,684
205.88	5,020	17,734
205.89	5,024	17,784
205.90	5,028	17,834
205.91	5,032	17,885
205.92	5,036	17,935
205.93	5,040	17,986
205.94	5,044	18,036
205.95	5,049	18,086
205.96	5,053	18,137
205.97	5,057	18,187
205.98	5,061	18,238
205.99	5,065	18,289
206.00	**5,069**	**18,339**

Summary for Link PDA-3: Proposed Drainage Area #3

Inflow Area = 29.619 ac, 38.13% Impervious, Inflow Depth > 3.45" for Future 10 yr event
Inflow = 56.16 cfs @ 12.29 hrs, Volume= 8.516 af
Primary = 56.16 cfs @ 12.29 hrs, Volume= 8.516 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-3: Proposed Drainage Area #3



Summary for Subcatchment 29l: PDA-29 (impervious)

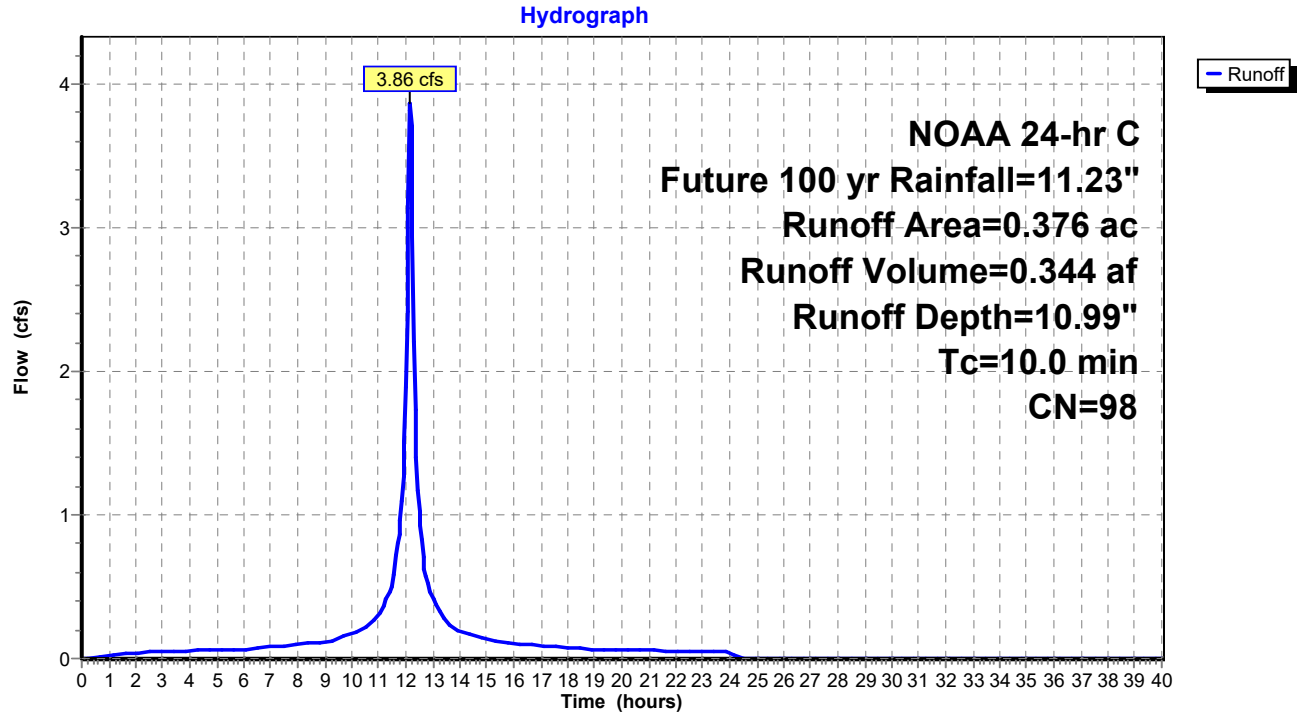
Runoff = 3.86 cfs @ 12.17 hrs, Volume= 0.344 af, Depth=10.99"
Routed to Pond B-29 : Basin #29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.342	98	Pavement, HSG C
*	0.034	98	Concrete, HSC C
	0.376	98	Weighted Average
	0.376		100.00% Impervious Area

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

Subcatchment 29l: PDA-29 (impervious)



Summary for Subcatchment 29P: PDA-29 (pervious)

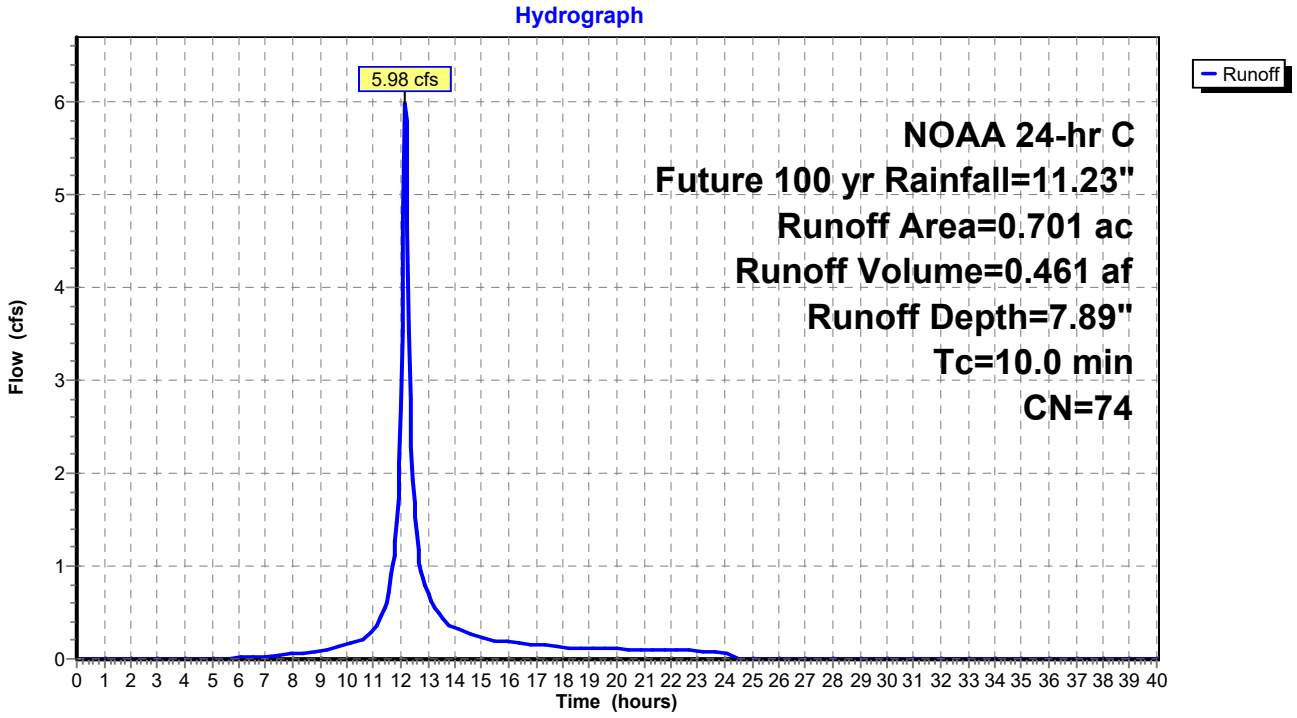
Runoff = 5.98 cfs @ 12.17 hrs, Volume= 0.461 af, Depth= 7.89"
Routed to Pond B-29 : Basin #29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.701	74	>75% Grass cover, Good, HSG C
0.701		100.00% Pervious Area

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

Subcatchment 29P: PDA-29 (pervious)



Summary for Subcatchment 30l: PDA-30 (impervious)

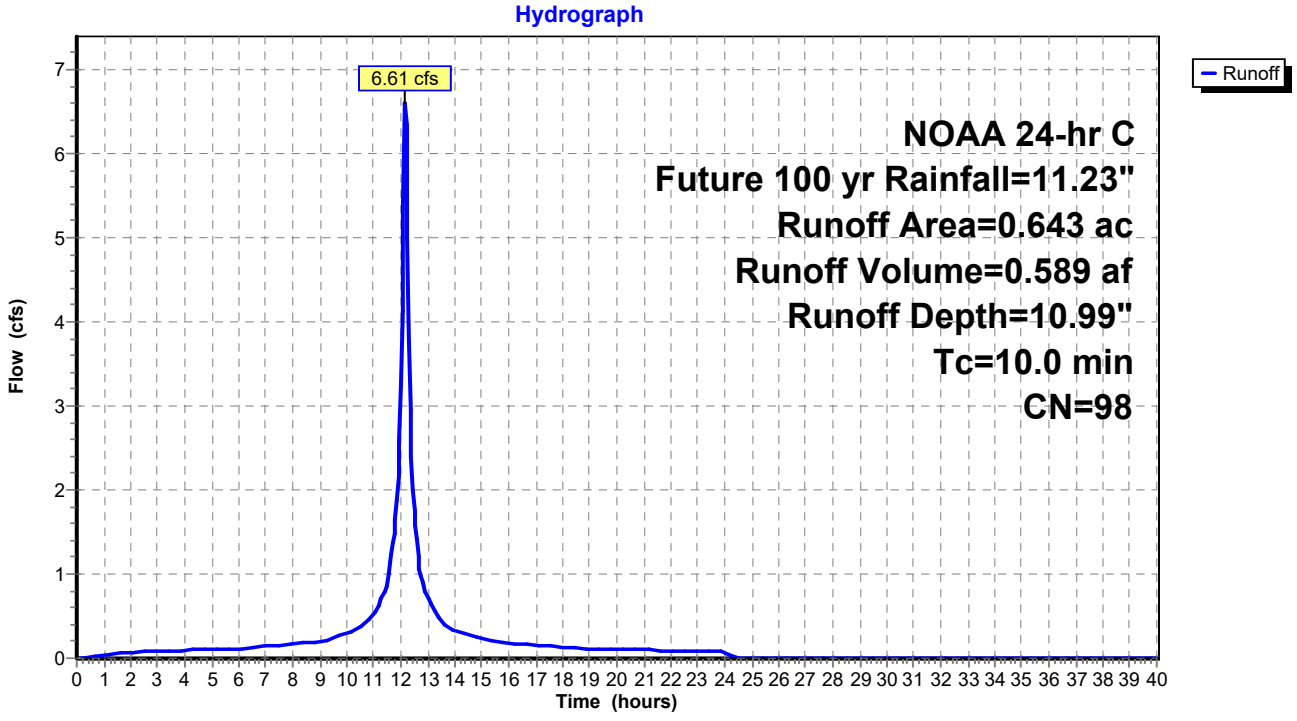
Runoff = 6.61 cfs @ 12.17 hrs, Volume= 0.589 af, Depth=10.99"
Routed to Pond B-30 : Basin #30

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.000	98	Pavement, HSG C
*	0.643	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.643	98	Weighted Average
	0.643		100.00% Impervious Area

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

Subcatchment 30l: PDA-30 (impervious)



Summary for Subcatchment 30P: PDA-30 (pervious)

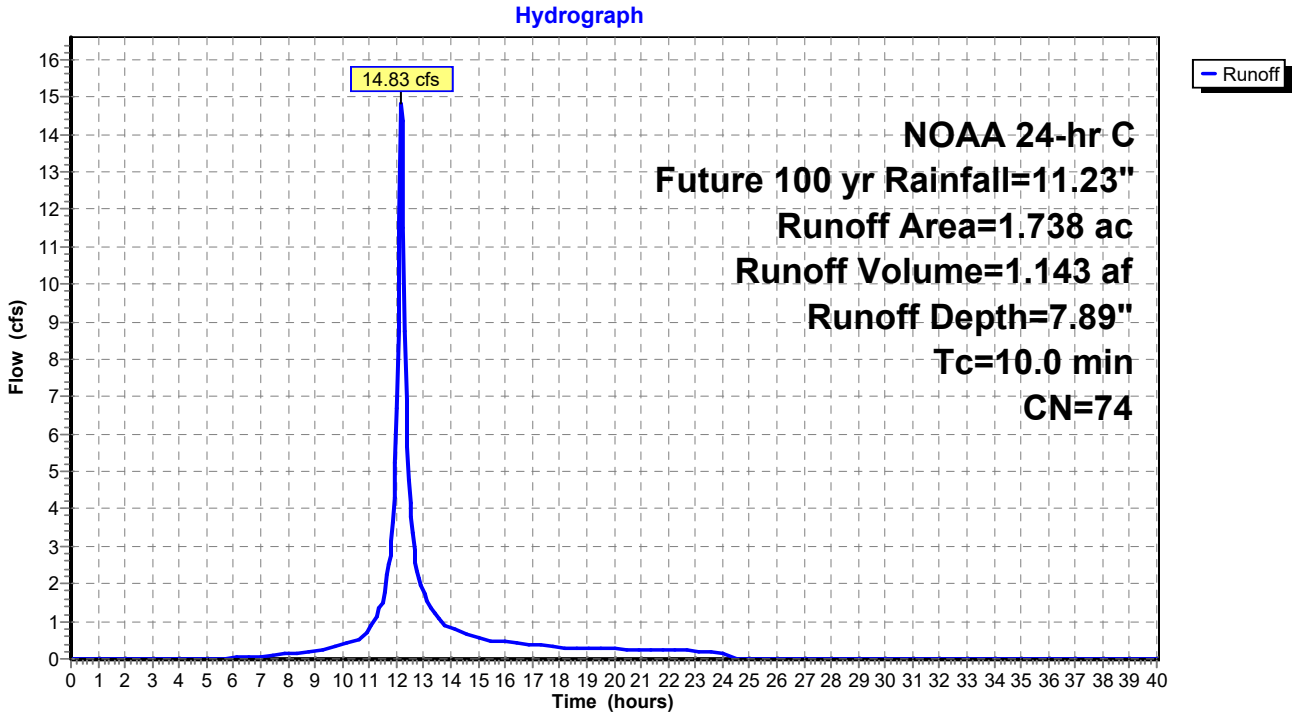
Runoff = 14.83 cfs @ 12.17 hrs, Volume= 1.143 af, Depth= 7.89"
Routed to Pond B-30 : Basin #30

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.738	74	>75% Grass cover, Good, HSG C
1.738		100.00% Pervious Area

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

Subcatchment 30P: PDA-30 (pervious)



Summary for Subcatchment 31I: PDA-31 (impervious)

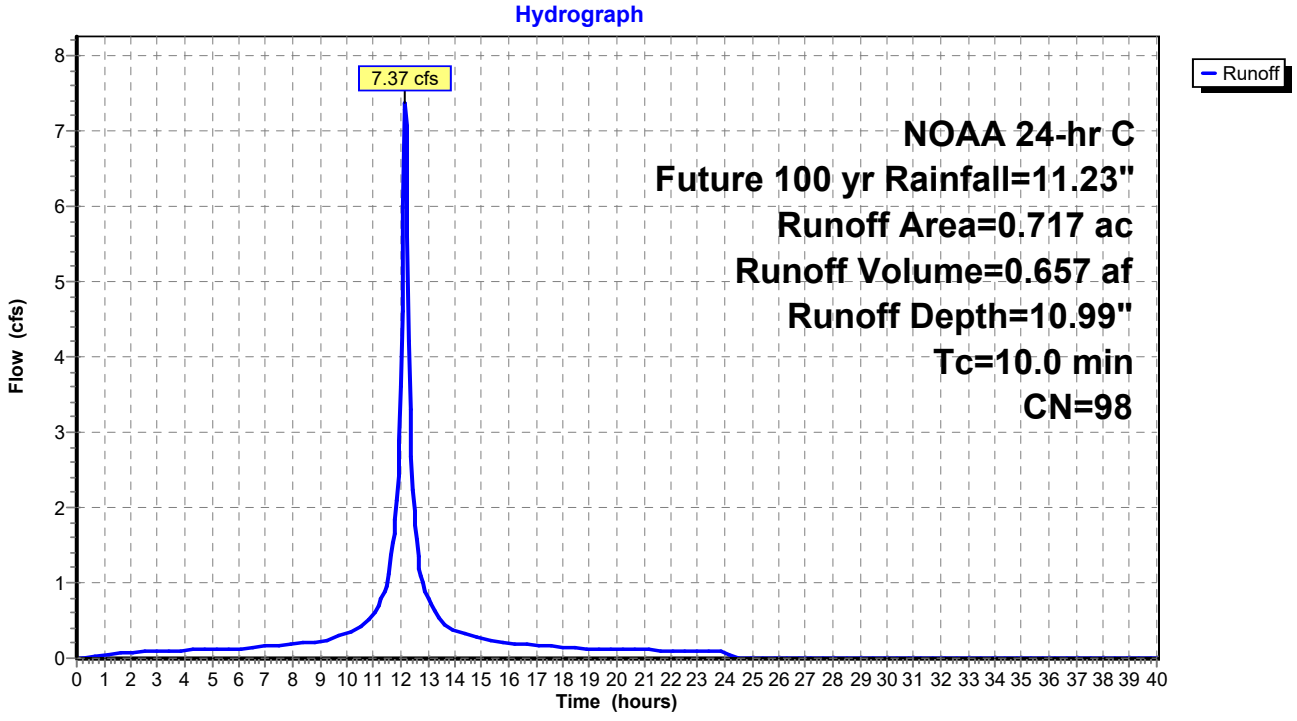
Runoff = 7.37 cfs @ 12.17 hrs, Volume= 0.657 af, Depth=10.99"
Routed to Pond B-31 : Basin #31

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.557	98	Pavement, HSG C
*	0.064	98	Roof, HSG C
*	0.096	98	Concrete, HSC C
	0.717	98	Weighted Average
	0.717		100.00% Impervious Area

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

Subcatchment 31I: PDA-31 (impervious)



Summary for Subcatchment 31P: PDA-31 (pervious)

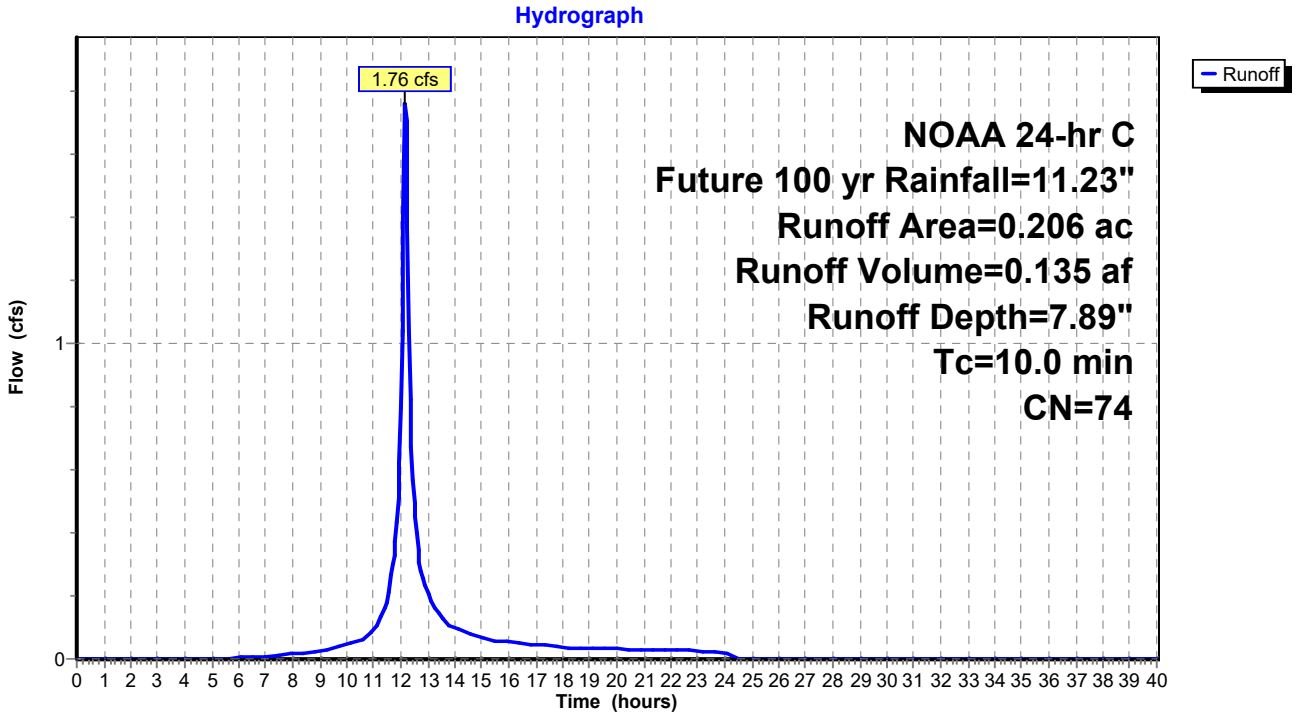
Runoff = 1.76 cfs @ 12.17 hrs, Volume= 0.135 af, Depth= 7.89"
Routed to Pond B-31 : Basin #31

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.206	74	>75% Grass cover, Good, HSG C
0.206		100.00% Pervious Area

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

Subcatchment 31P: PDA-31 (pervious)



Summary for Subcatchment 32I: PDA-32 (impervious)

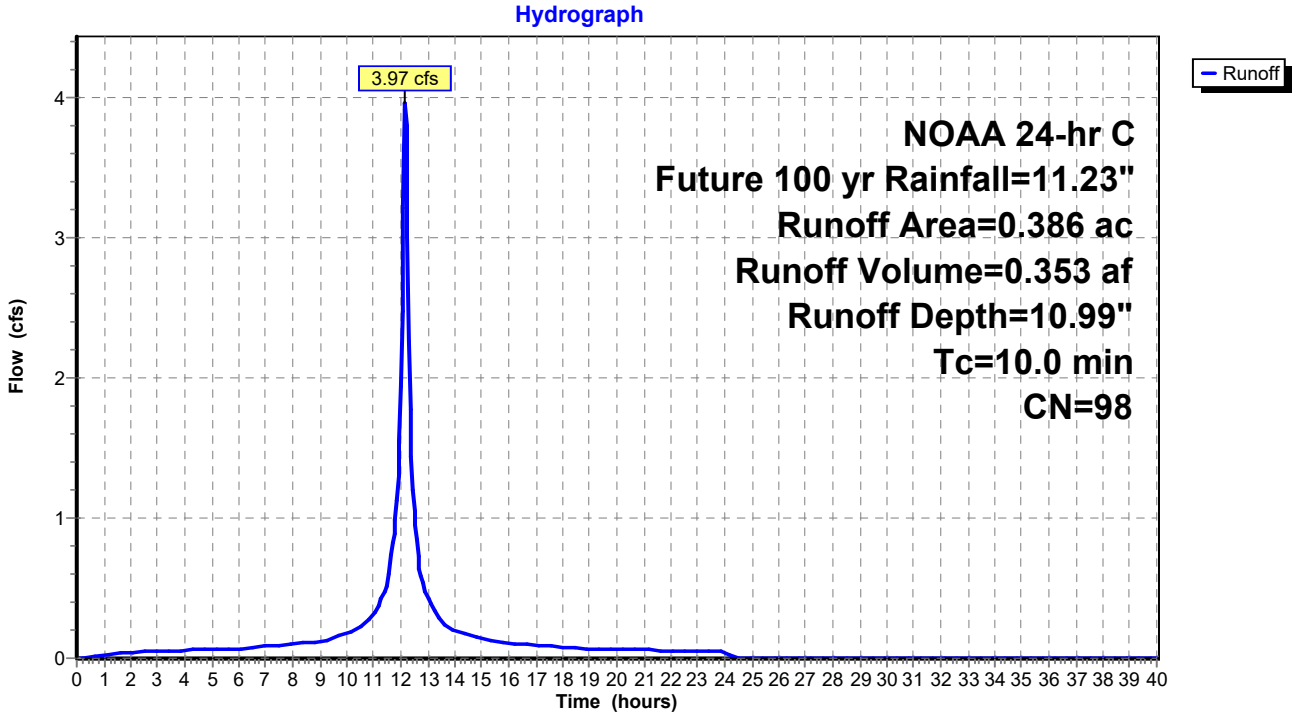
Runoff = 3.97 cfs @ 12.17 hrs, Volume= 0.353 af, Depth=10.99"
Routed to Pond B-32 : Basin #32

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.000	98	Pavement, HSG C
*	0.386	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.386	98	Weighted Average
	0.386		100.00% Impervious Area

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

Subcatchment 32I: PDA-32 (impervious)



Summary for Subcatchment 32P: PDA-32 (pervious)

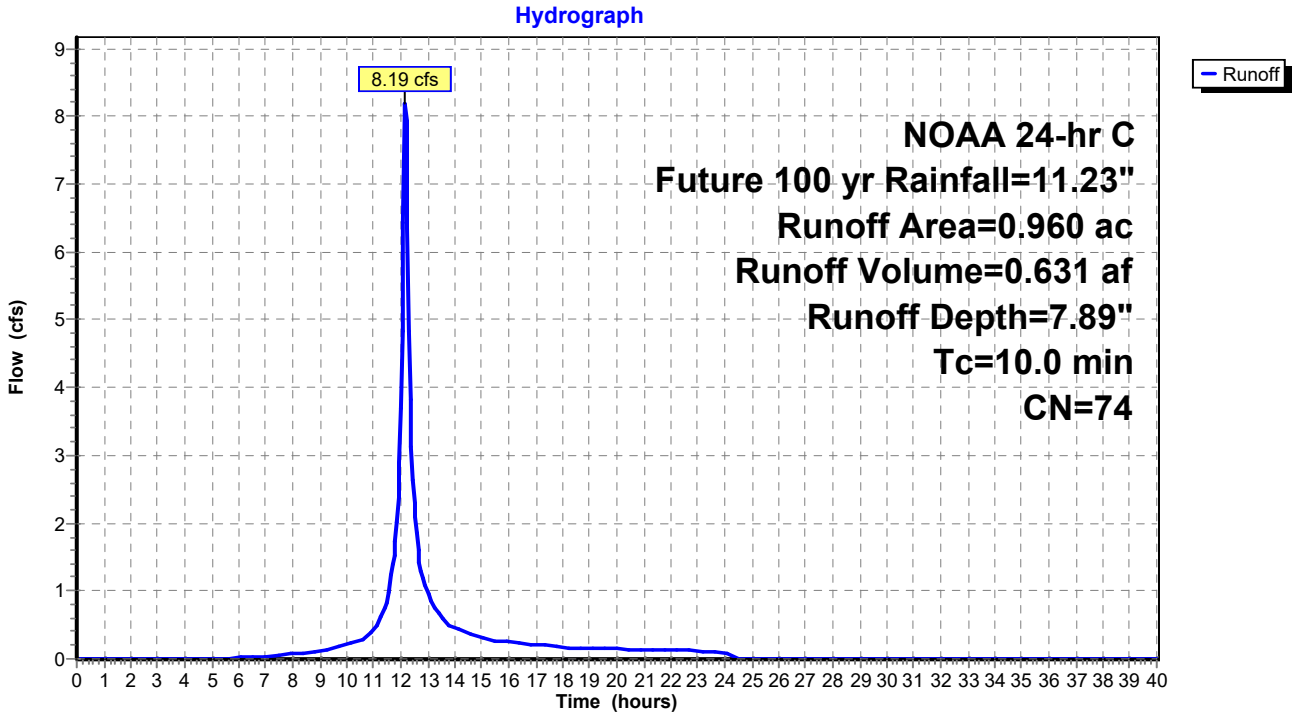
Runoff = 8.19 cfs @ 12.17 hrs, Volume= 0.631 af, Depth= 7.89"
Routed to Pond B-32 : Basin #32

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.960	74	>75% Grass cover, Good, HSG C
0.960		100.00% Pervious Area

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

Subcatchment 32P: PDA-32 (pervious)



Summary for Subcatchment 33l: PDA-33 (impervious)

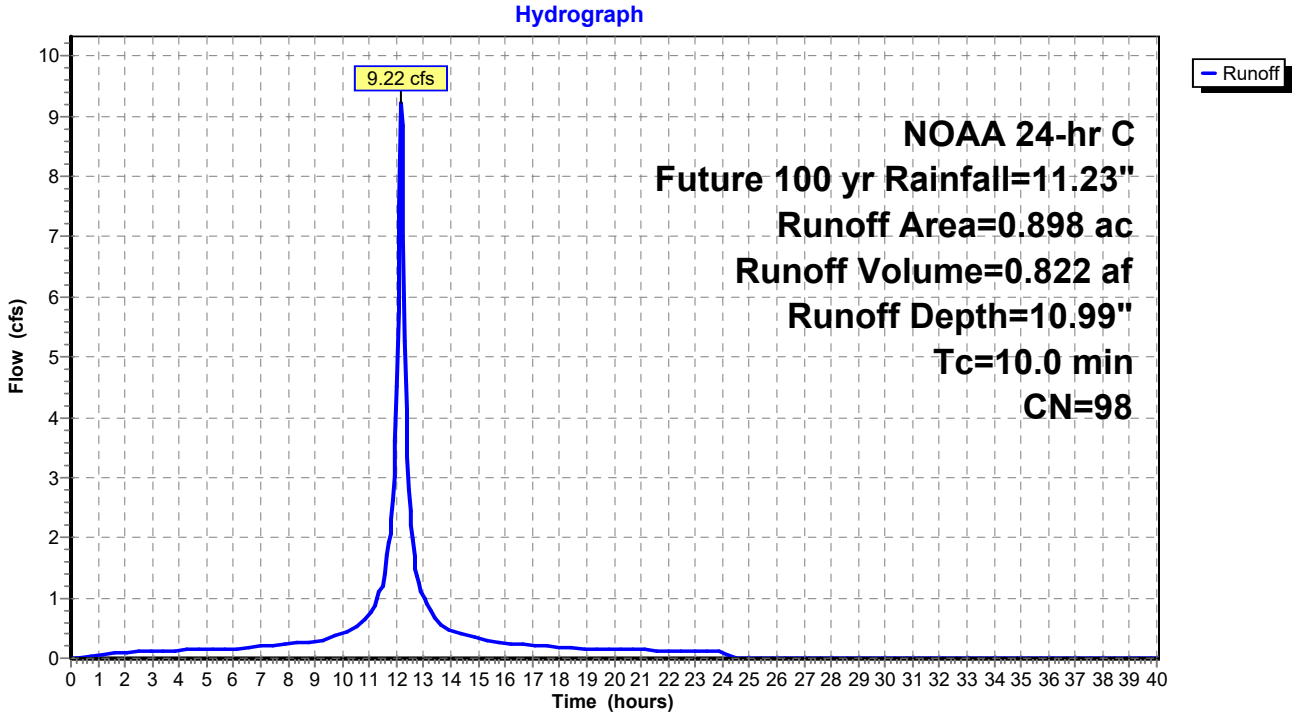
Runoff = 9.22 cfs @ 12.17 hrs, Volume= 0.822 af, Depth=10.99"
Routed to Pond B-33 : Basin #33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.351	98	Pavement, HSG C
*	0.514	98	Roof, HSG C
*	0.033	98	Concrete, HSC C
	0.898	98	Weighted Average
	0.898		100.00% Impervious Area

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

Subcatchment 33l: PDA-33 (impervious)



Summary for Subcatchment 33P: PDA-33 (pervious)

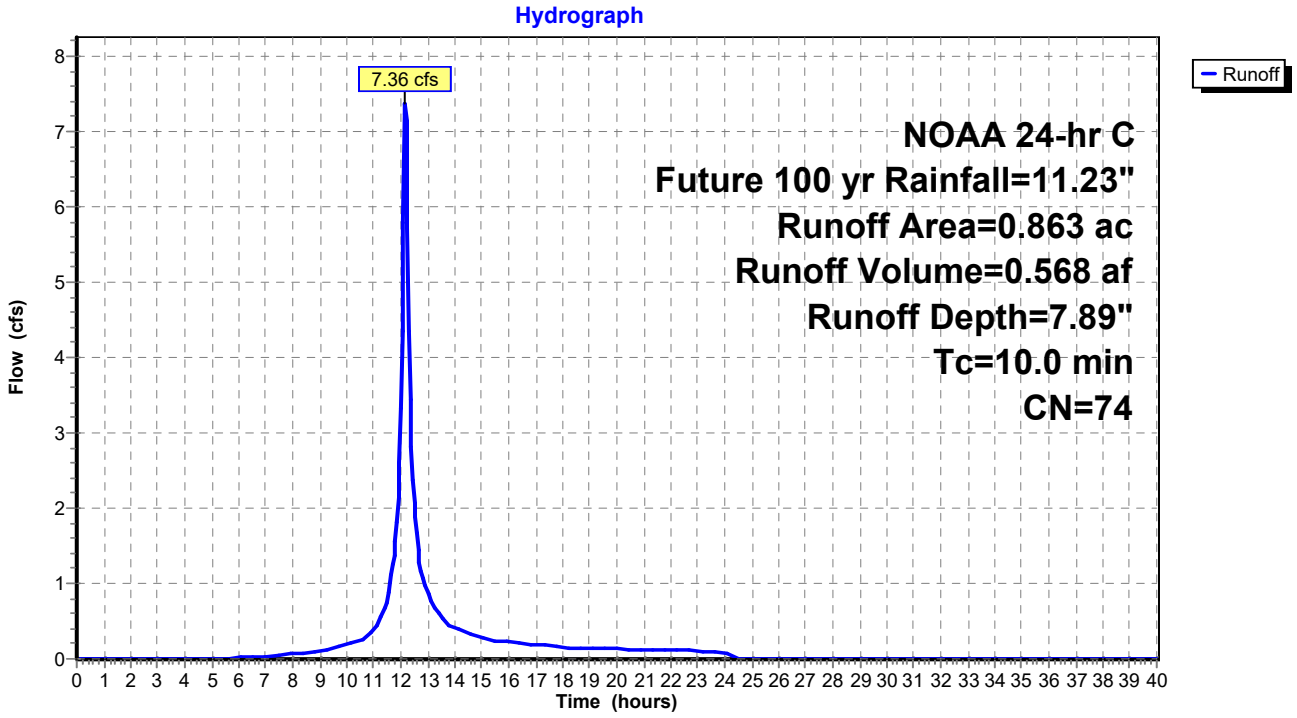
Runoff = 7.36 cfs @ 12.17 hrs, Volume= 0.568 af, Depth= 7.89"
Routed to Pond B-33 : Basin #33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.863	74	>75% Grass cover, Good, HSG C
0.863		100.00% Pervious Area

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

Subcatchment 33P: PDA-33 (pervious)



Summary for Subcatchment 34l: PDA-34 (impervious)

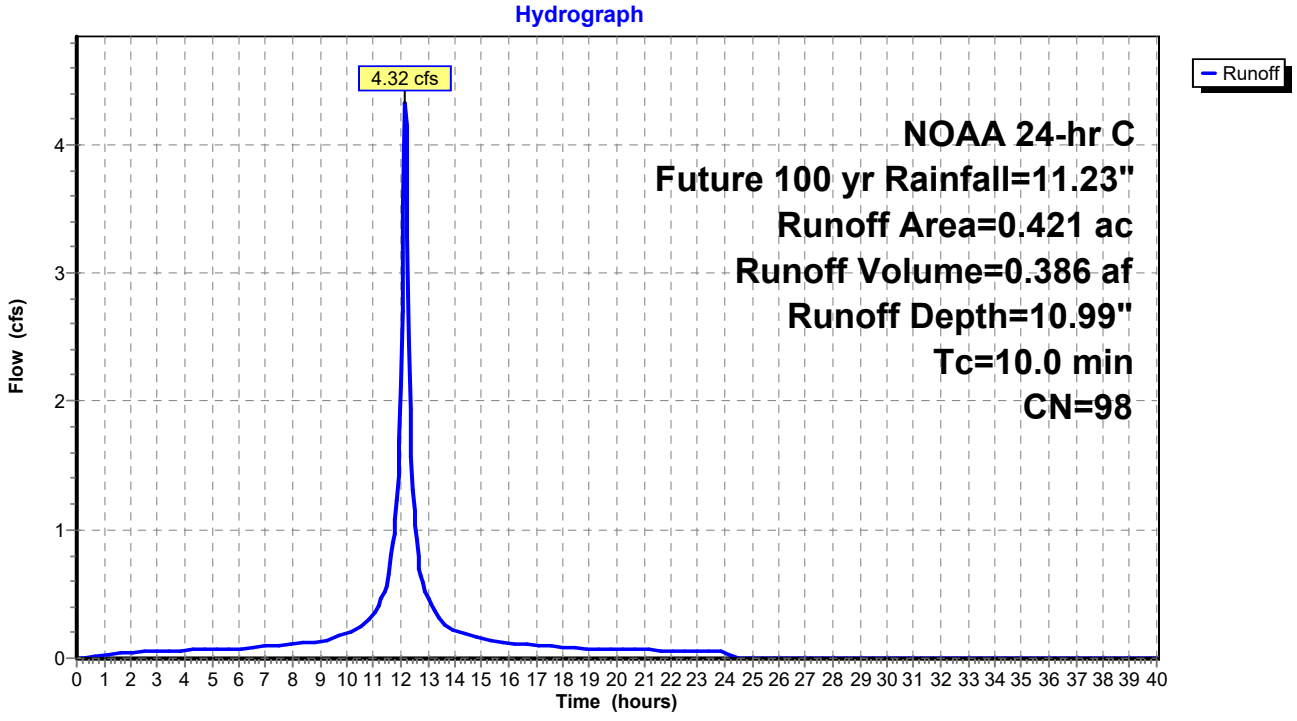
Runoff = 4.32 cfs @ 12.17 hrs, Volume= 0.386 af, Depth=10.99"
Routed to Pond B-34 : Basin #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.000	98	Pavement, HSG C
*	0.279	98	Roof, HSG C
*	0.142	98	Concrete, HSC C
	0.421	98	Weighted Average
	0.421		100.00% Impervious Area

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

Subcatchment 34l: PDA-34 (impervious)



Summary for Subcatchment 34P: PDA-34 (pervious)

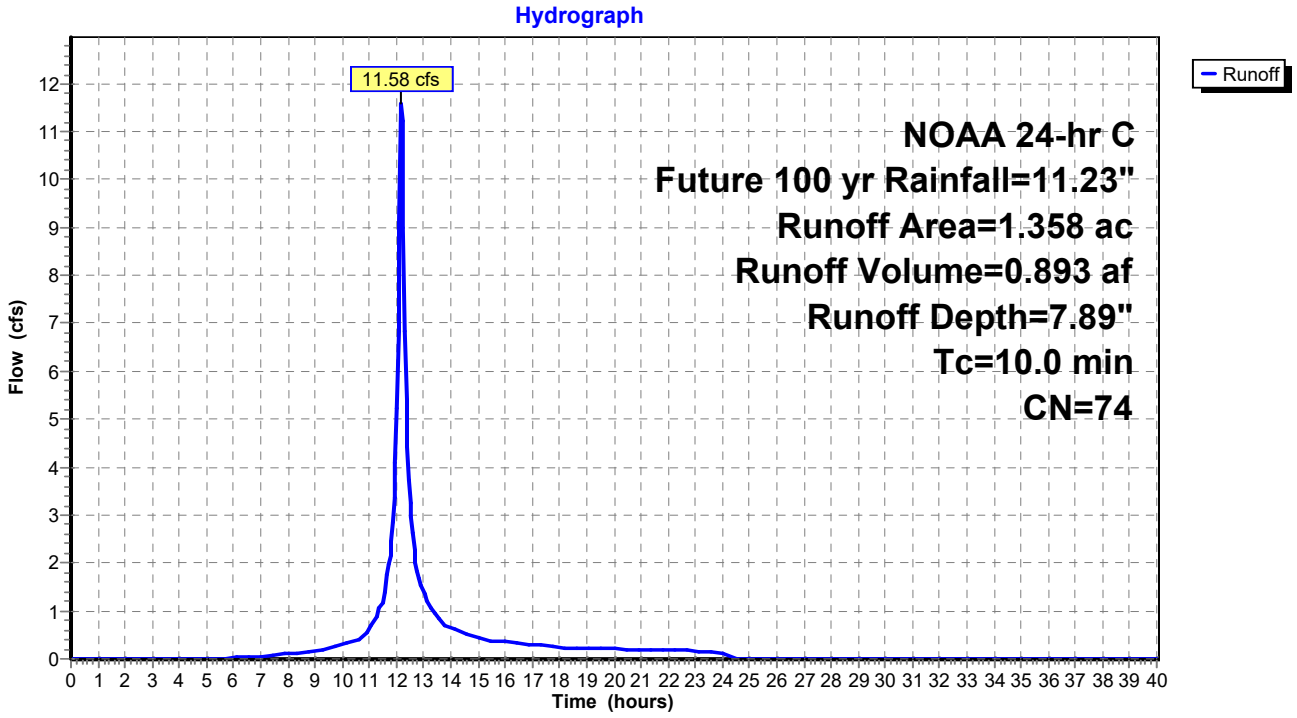
Runoff = 11.58 cfs @ 12.17 hrs, Volume= 0.893 af, Depth= 7.89"
Routed to Pond B-34 : Basin #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.358	74	>75% Grass cover, Good, HSG C
1.358		100.00% Pervious Area

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

Subcatchment 34P: PDA-34 (pervious)



Summary for Subcatchment 35l: PDA-35 (impervious)

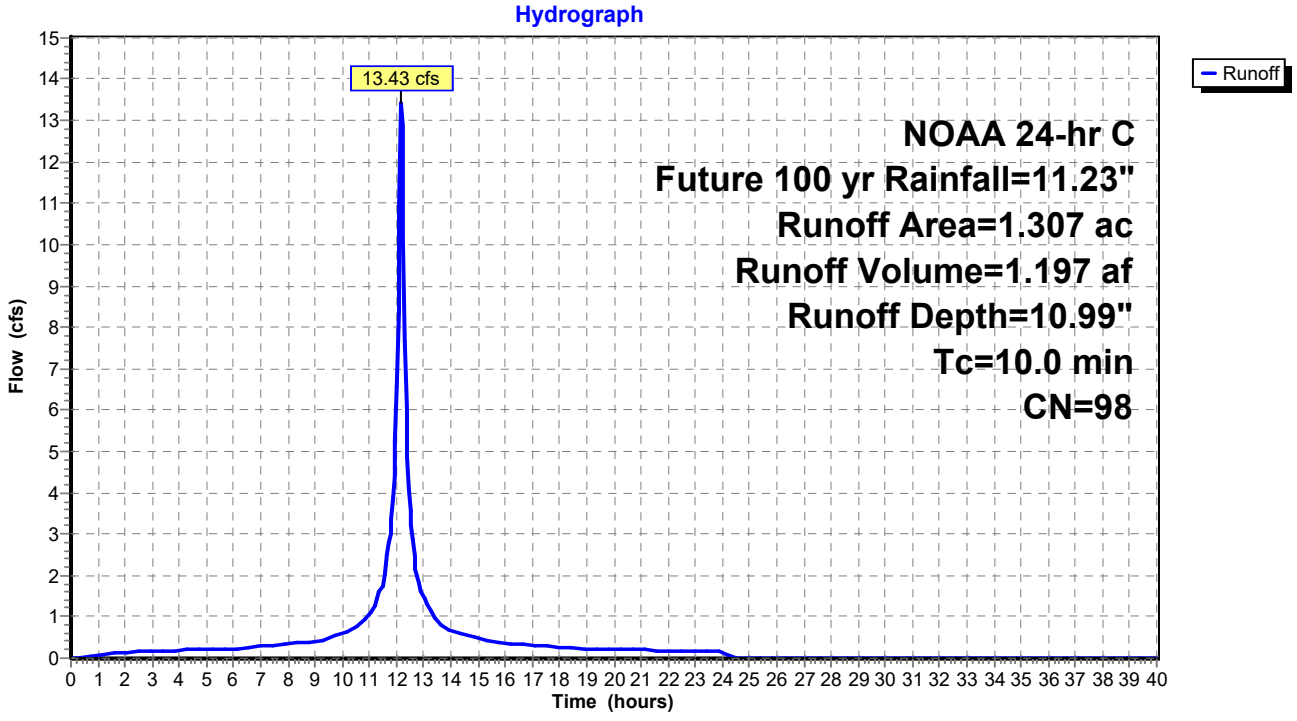
Runoff = 13.43 cfs @ 12.17 hrs, Volume= 1.197 af, Depth=10.99"
Routed to Pond B-35 : Basin #35

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	1.003	98	Pavement, HSG C
*	0.139	98	Roof, HSG C
*	0.165	98	Concrete, HSC C
	1.307	98	Weighted Average
	1.307		100.00% Impervious Area

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

Subcatchment 35l: PDA-35 (impervious)



Summary for Subcatchment 35P: PDA-35 (pervious)

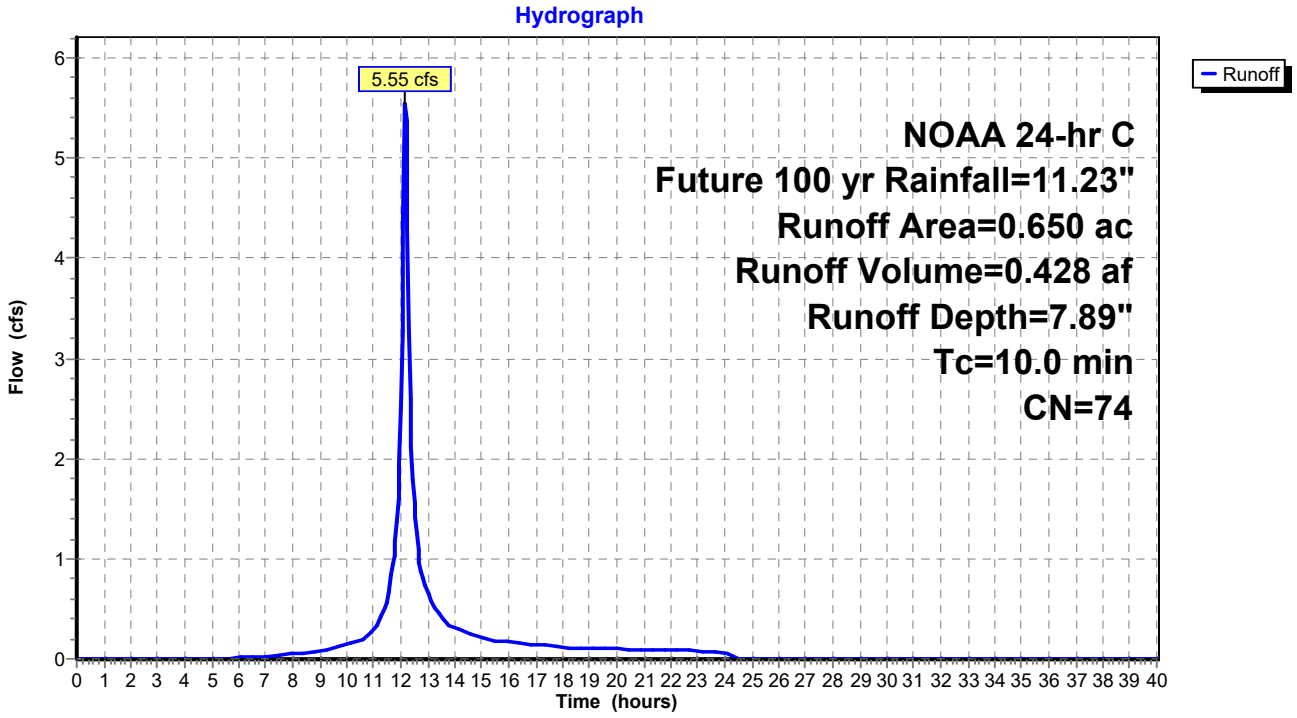
Runoff = 5.55 cfs @ 12.17 hrs, Volume= 0.428 af, Depth= 7.89"
Routed to Pond B-35 : Basin #35

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.650	74	>75% Grass cover, Good, HSG C
0.650		100.00% Pervious Area

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

Subcatchment 35P: PDA-35 (pervious)



Summary for Subcatchment 36AI: PDA-36A (impervious)

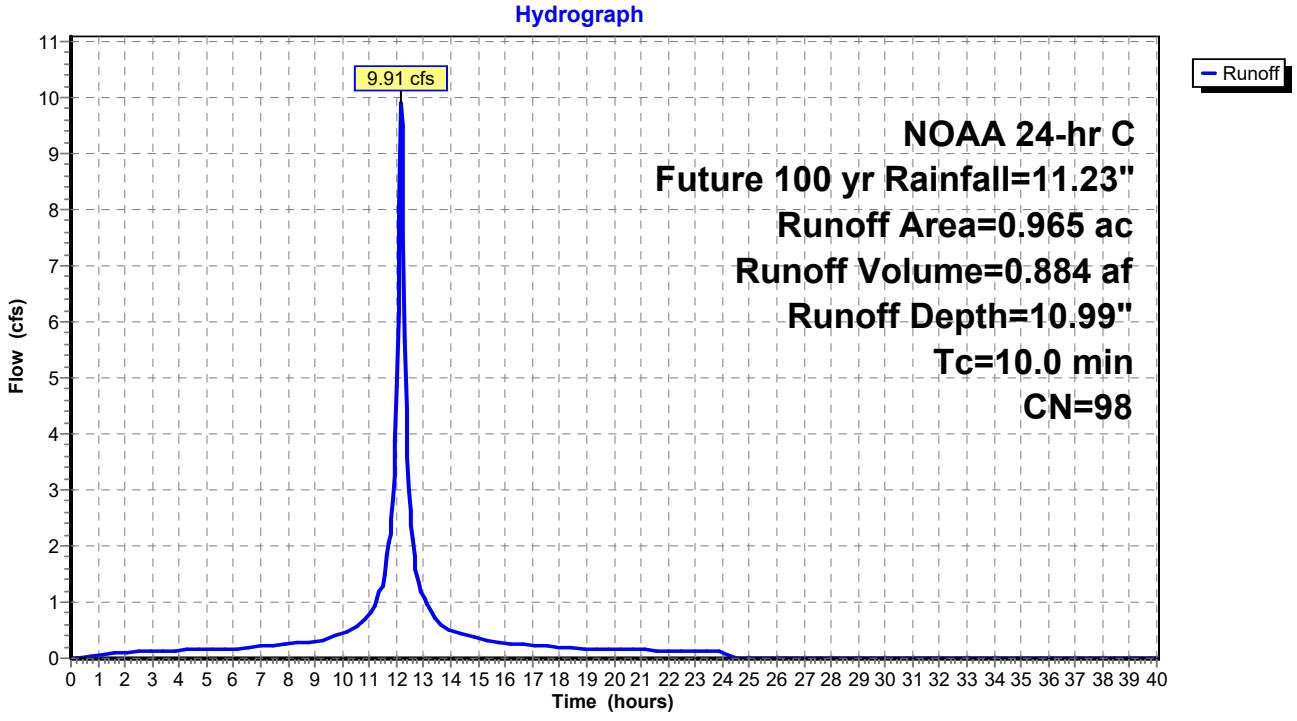
Runoff = 9.91 cfs @ 12.17 hrs, Volume= 0.884 af, Depth=10.99"
Routed to Pond B-36A : Basin #36A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.415	98	Pavement, HSG C
*	0.418	98	Roof, HSG C
*	0.132	98	Concrete, HSC C
	0.965	98	Weighted Average
	0.965		100.00% Impervious Area

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

Subcatchment 36AI: PDA-36A (impervious)



Summary for Subcatchment 36AP: PDA-36A (pervious)

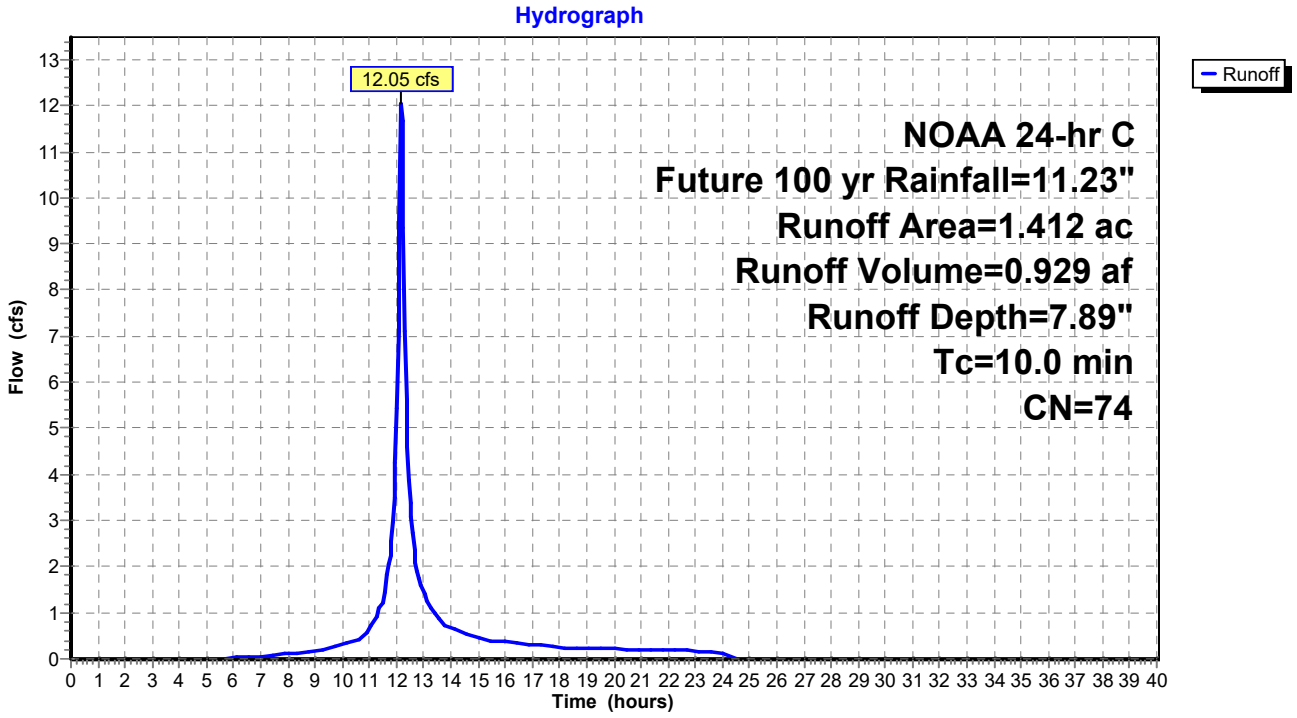
Runoff = 12.05 cfs @ 12.17 hrs, Volume= 0.929 af, Depth= 7.89"
Routed to Pond B-36A : Basin #36A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.412	74	>75% Grass cover, Good, HSG C
1.412		100.00% Pervious Area

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

Subcatchment 36AP: PDA-36A (pervious)



Summary for Subcatchment 36BI: PDA-36B (impervious)

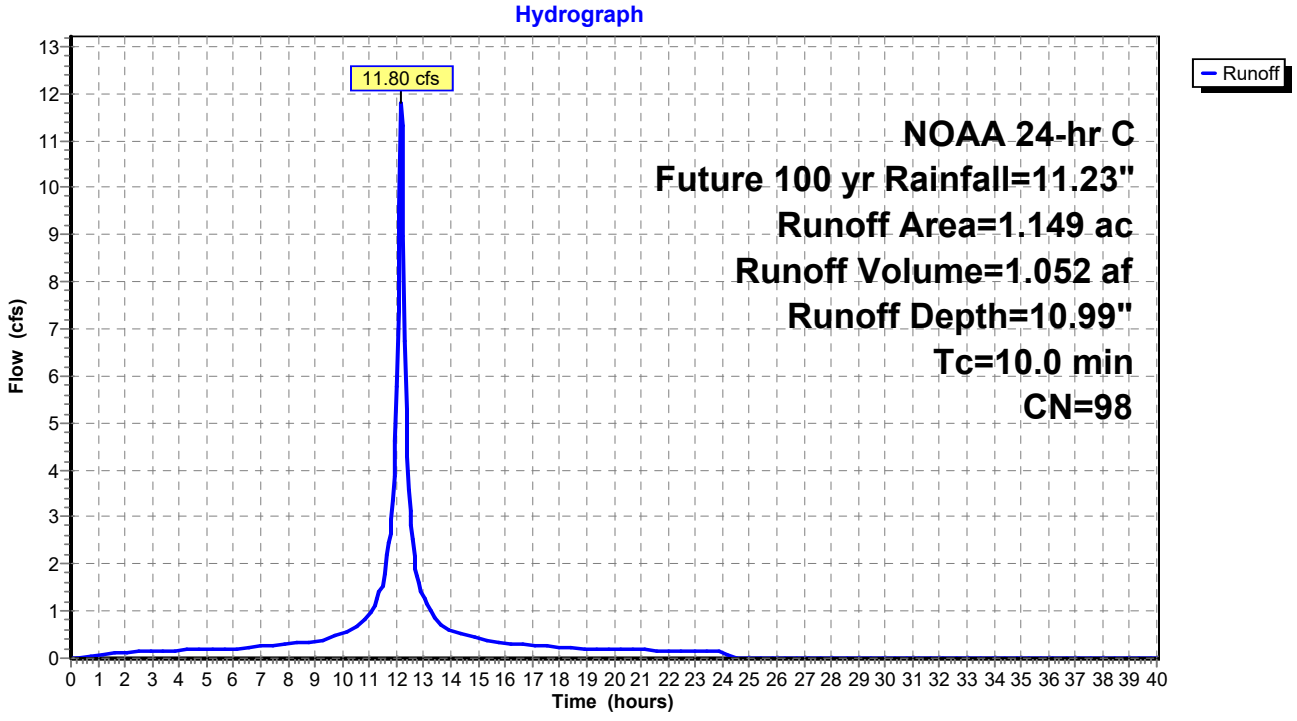
Runoff = 11.80 cfs @ 12.17 hrs, Volume= 1.052 af, Depth=10.99"
Routed to Pond B-36B : Basin #36B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.501	98	Pavement, HSG C
*	0.579	98	Roof, HSG C
*	0.069	98	Concrete, HSC C
	1.149	98	Weighted Average
	1.149		100.00% Impervious Area

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

Subcatchment 36BI: PDA-36B (impervious)



Summary for Subcatchment 36BP: PDA-36B (pervious)

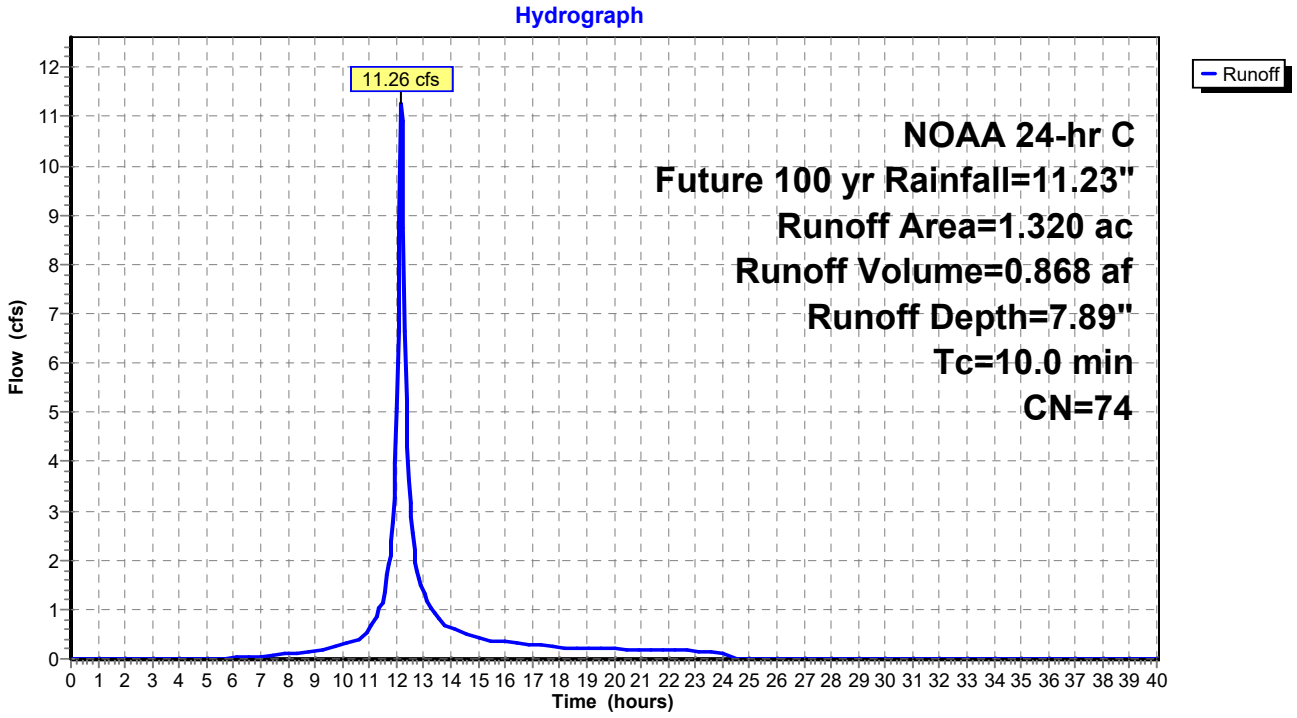
Runoff = 11.26 cfs @ 12.17 hrs, Volume= 0.868 af, Depth= 7.89"
Routed to Pond B-36B : Basin #36B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.320	74	>75% Grass cover, Good, HSG C
1.320		100.00% Pervious Area

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

Subcatchment 36BP: PDA-36B (pervious)



Summary for Subcatchment 37AI: PDA-37B (impervious)

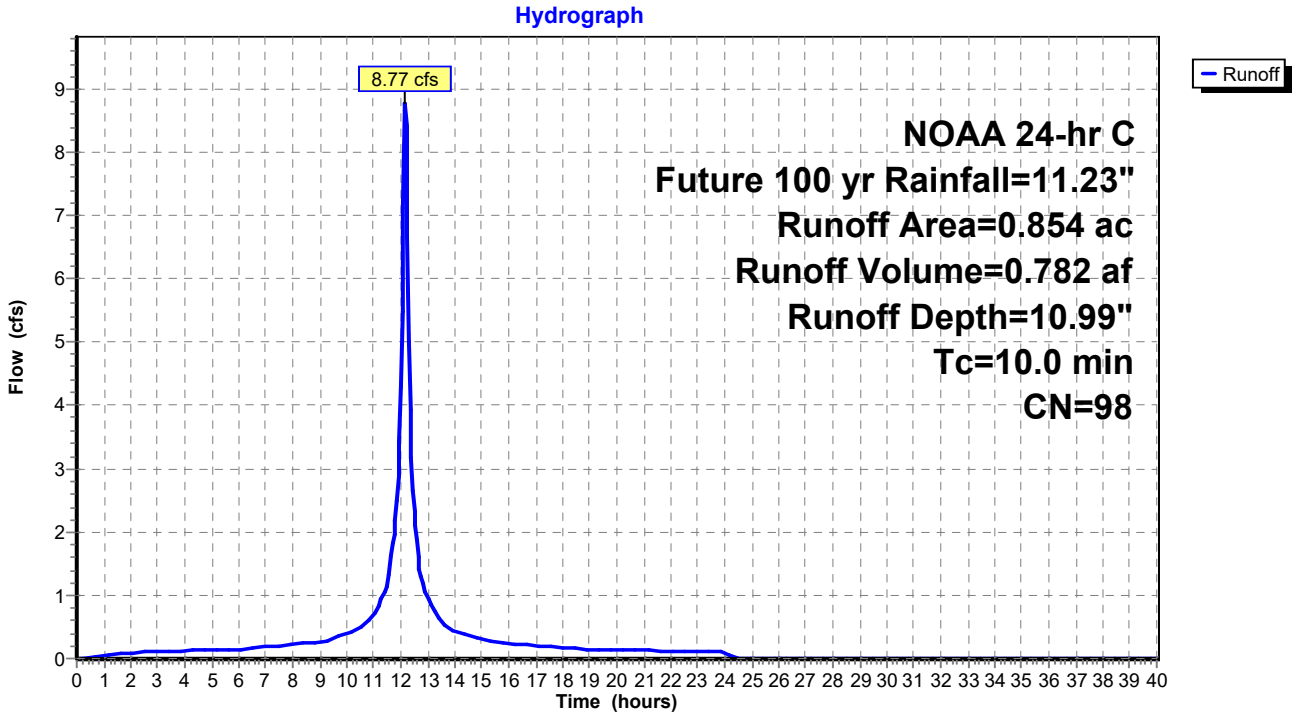
Runoff = 8.77 cfs @ 12.17 hrs, Volume= 0.782 af, Depth=10.99"
Routed to Pond B-37A : Basin #37A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.673	98	Pavement, HSG C
*	0.181	98	Concrete, HSC C
	0.854	98	Weighted Average
	0.854		100.00% Impervious Area

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

Subcatchment 37AI: PDA-37B (impervious)



Summary for Subcatchment 37AP: PDA-37A (pervious)

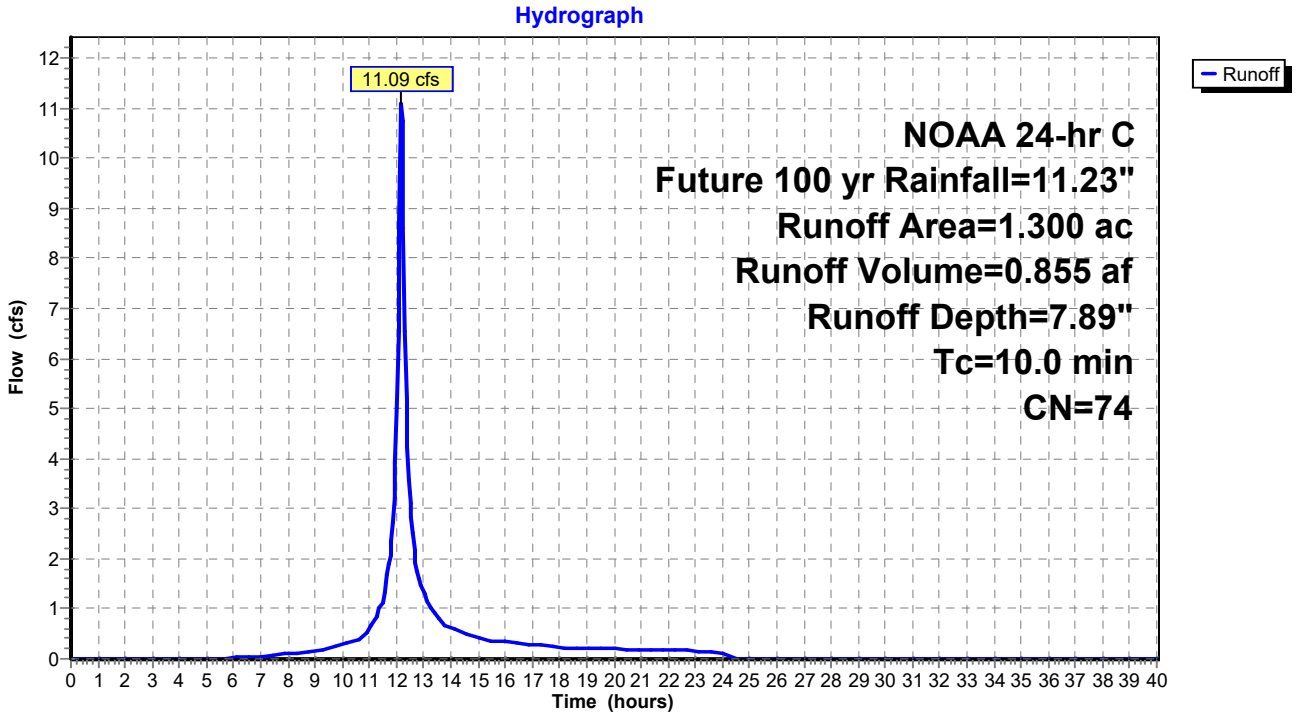
Runoff = 11.09 cfs @ 12.17 hrs, Volume= 0.855 af, Depth= 7.89"
Routed to Pond B-37A : Basin #37A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.300	74	>75% Grass cover, Good, HSG C
1.300		100.00% Pervious Area

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

Subcatchment 37AP: PDA-37A (pervious)



Summary for Subcatchment 37BI: PDA-37B (impervious)

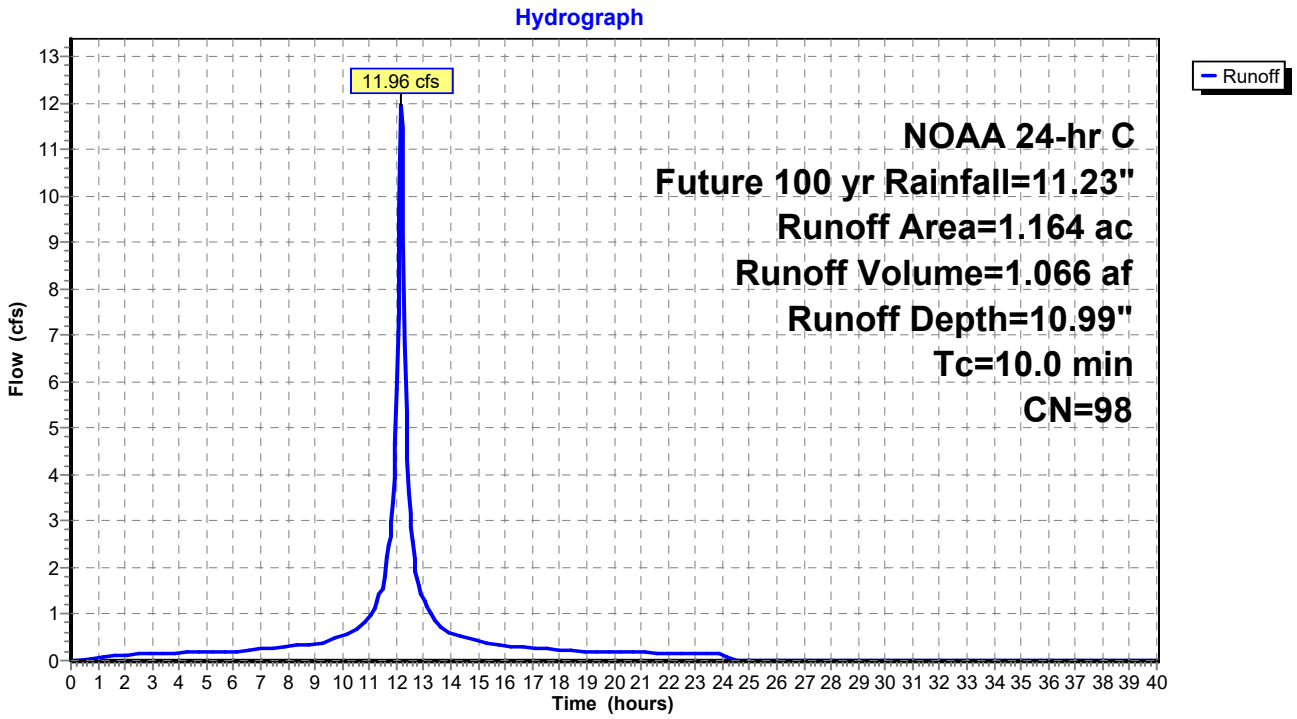
Runoff = 11.96 cfs @ 12.17 hrs, Volume= 1.066 af, Depth=10.99"
Routed to Pond B-37B : Basin #37B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.806	98	Pavement, HSG C
*	0.079	98	Concrete, HSC C
	0.279	98	Unconnected roofs, HSG C
	1.164	98	Weighted Average
	1.164		100.00% Impervious Area
	0.279		23.97% Unconnected

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

Subcatchment 37BI: PDA-37B (impervious)



Summary for Subcatchment 38BP: PDA-37B (pervious)

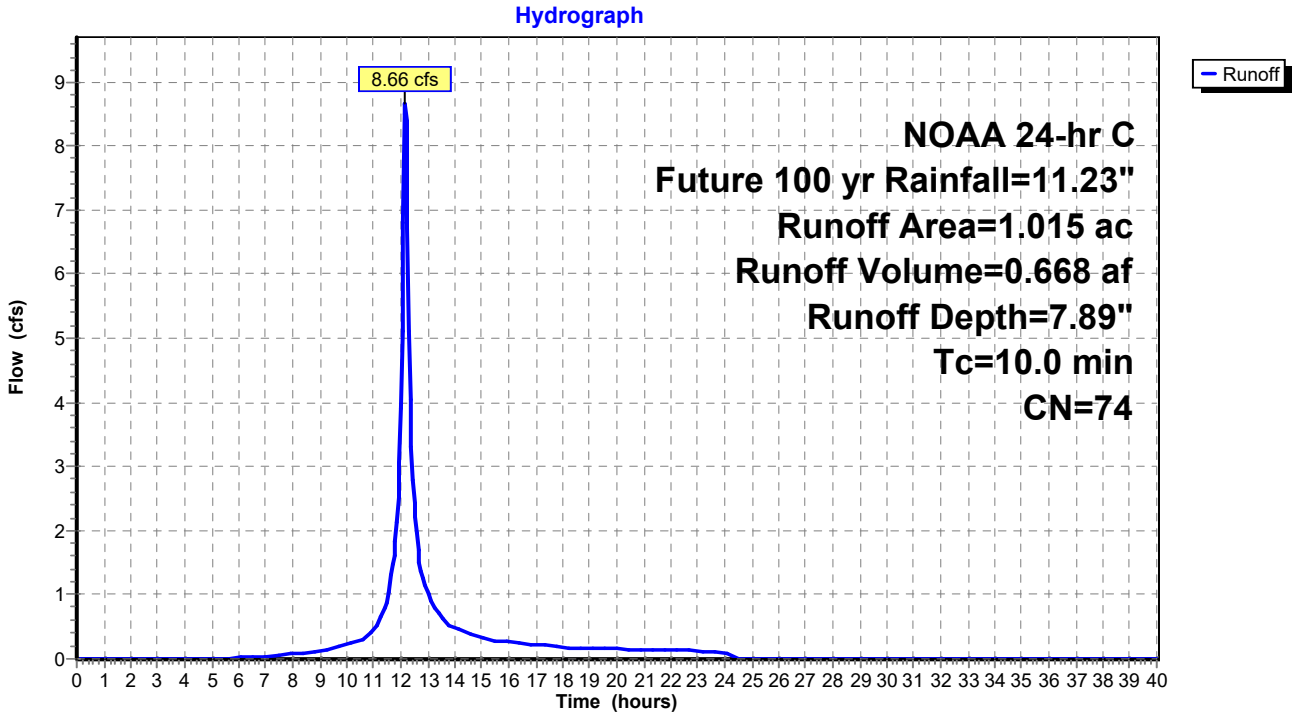
Runoff = 8.66 cfs @ 12.17 hrs, Volume= 0.668 af, Depth= 7.89"
Routed to Pond B-37B : Basin #37B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.015	74	>75% Grass cover, Good, HSG C
1.015		100.00% Pervious Area

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

Subcatchment 38BP: PDA-37B (pervious)



Summary for Subcatchment 38I: PDA-38 (impervious)

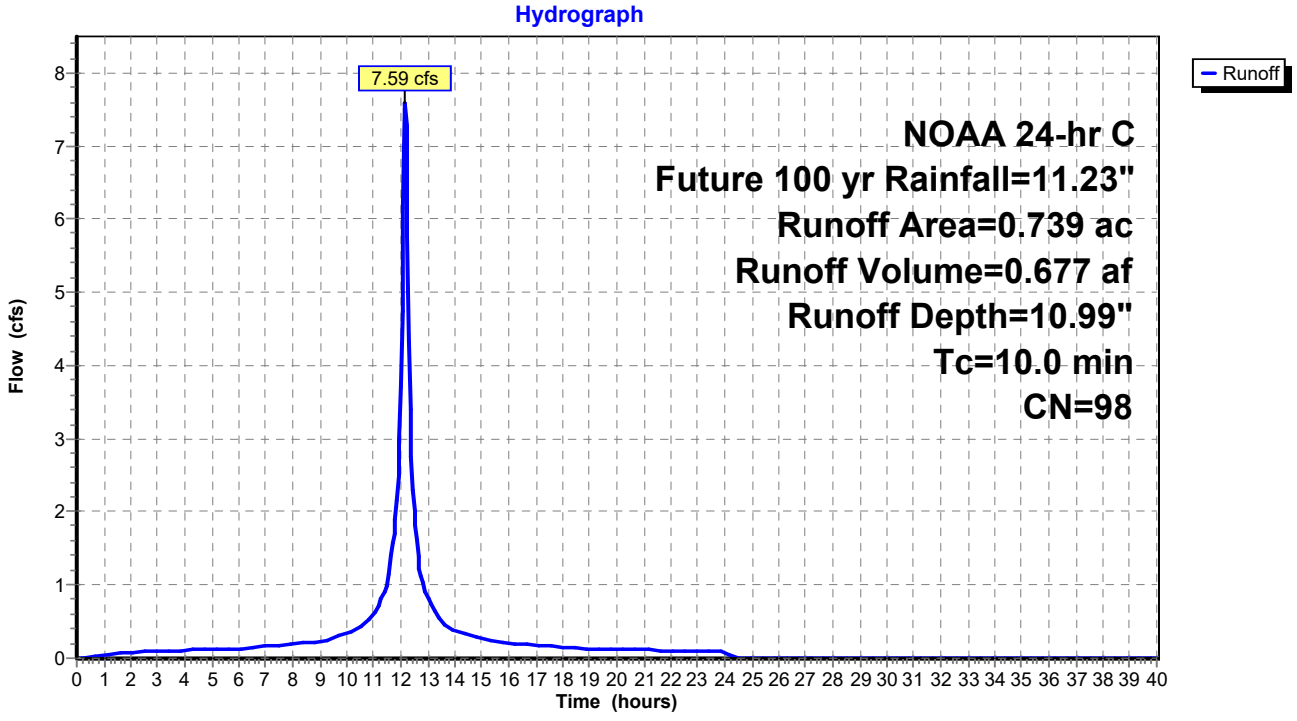
Runoff = 7.59 cfs @ 12.17 hrs, Volume= 0.677 af, Depth=10.99"
Routed to Pond B-38 : Basin #38

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.568	98	Roof, HSG C
*	0.171	98	Concrete, HSC C
	0.000	98	Paved roads w/curbs & sewers, HSG C
	0.739	98	Weighted Average
	0.739		100.00% Impervious Area

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

Subcatchment 38I: PDA-38 (impervious)



Summary for Subcatchment 38P: PDA-38 (pervious)

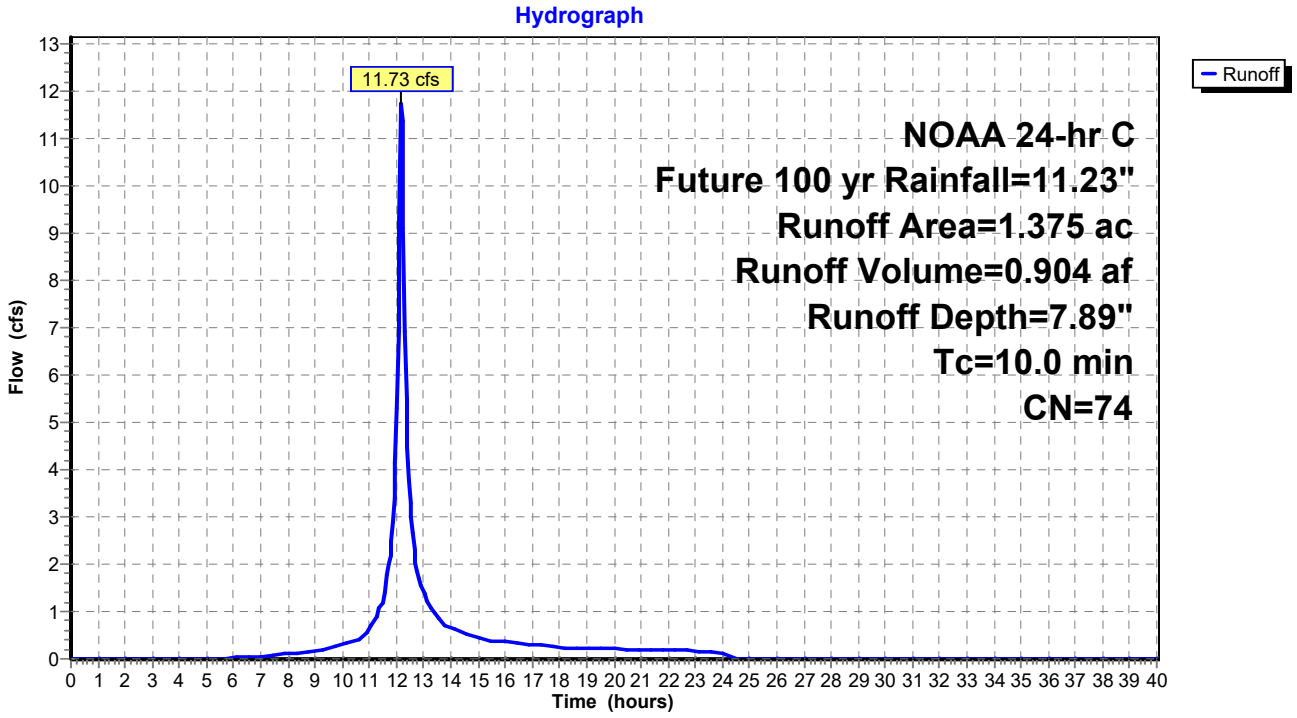
Runoff = 11.73 cfs @ 12.17 hrs, Volume= 0.904 af, Depth= 7.89"
Routed to Pond B-38 : Basin #38

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.375	74	>75% Grass cover, Good, HSG C
1.375		100.00% Pervious Area

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

Subcatchment 38P: PDA-38 (pervious)



Summary for Subcatchment 39l: PDA-39 (impervious)

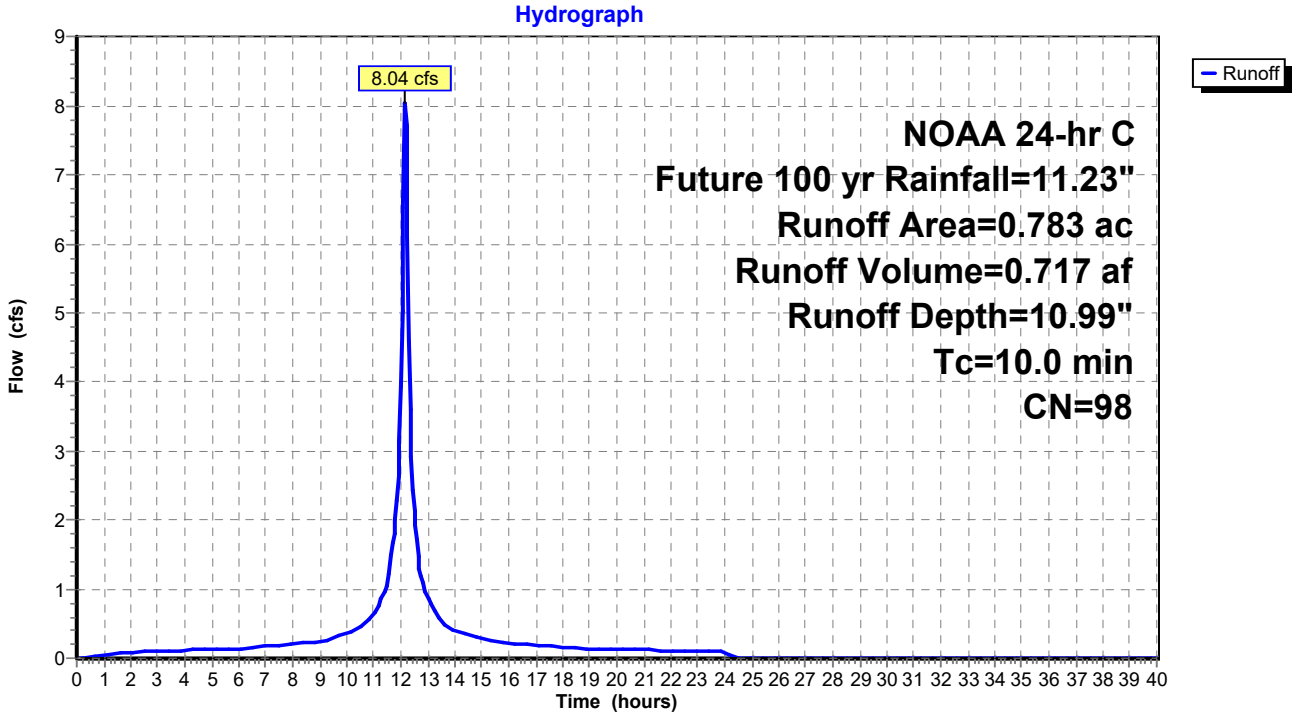
Runoff = 8.04 cfs @ 12.17 hrs, Volume= 0.717 af, Depth=10.99"
Routed to Pond B-39 : Basin #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.568	98	Roof, HSG C
*	0.164	98	Concrete, HSC C
	0.051	98	Paved roads w/curbs & sewers, HSG C
	0.783	98	Weighted Average
	0.783		100.00% Impervious Area

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

Subcatchment 39l: PDA-39 (impervious)



Summary for Subcatchment 39P: PDA-39 (pervious)

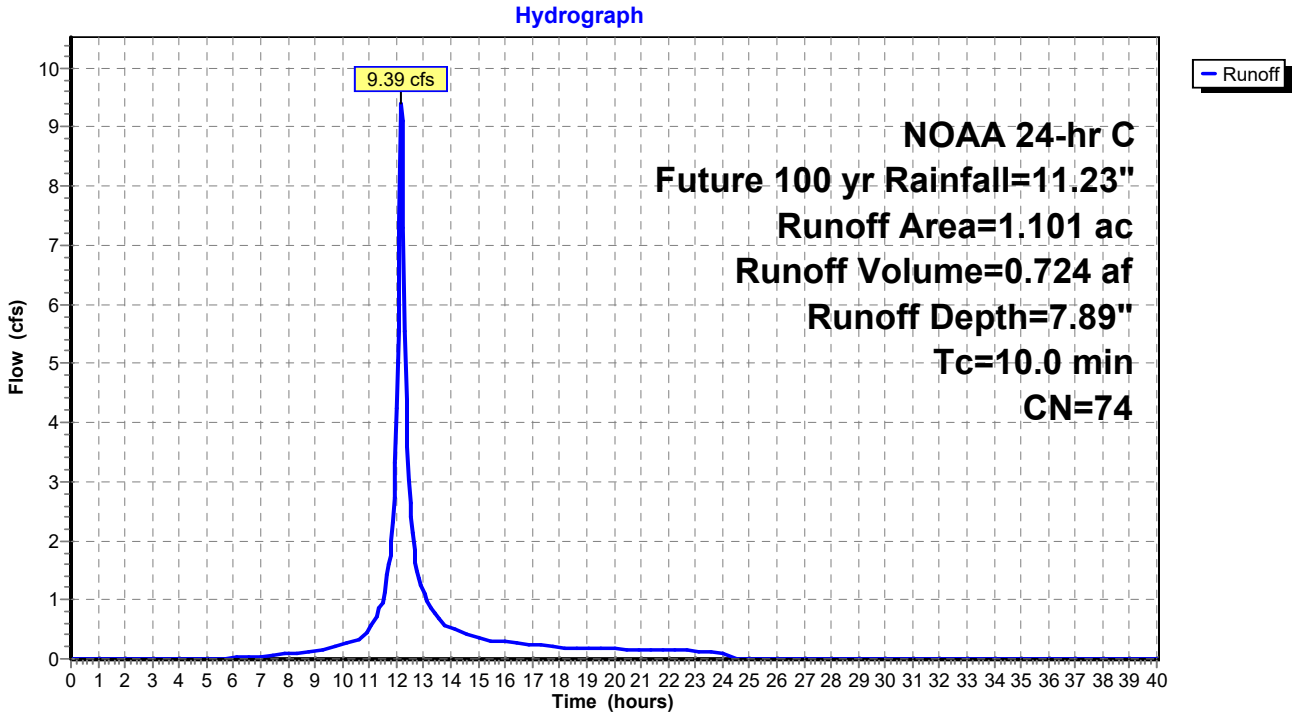
Runoff = 9.39 cfs @ 12.17 hrs, Volume= 0.724 af, Depth= 7.89"
Routed to Pond B-39 : Basin #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.101	74	>75% Grass cover, Good, HSG C
1.101		100.00% Pervious Area

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

Subcatchment 39P: PDA-39 (pervious)



Summary for Subcatchment 40l: PDA-40 (impervious)

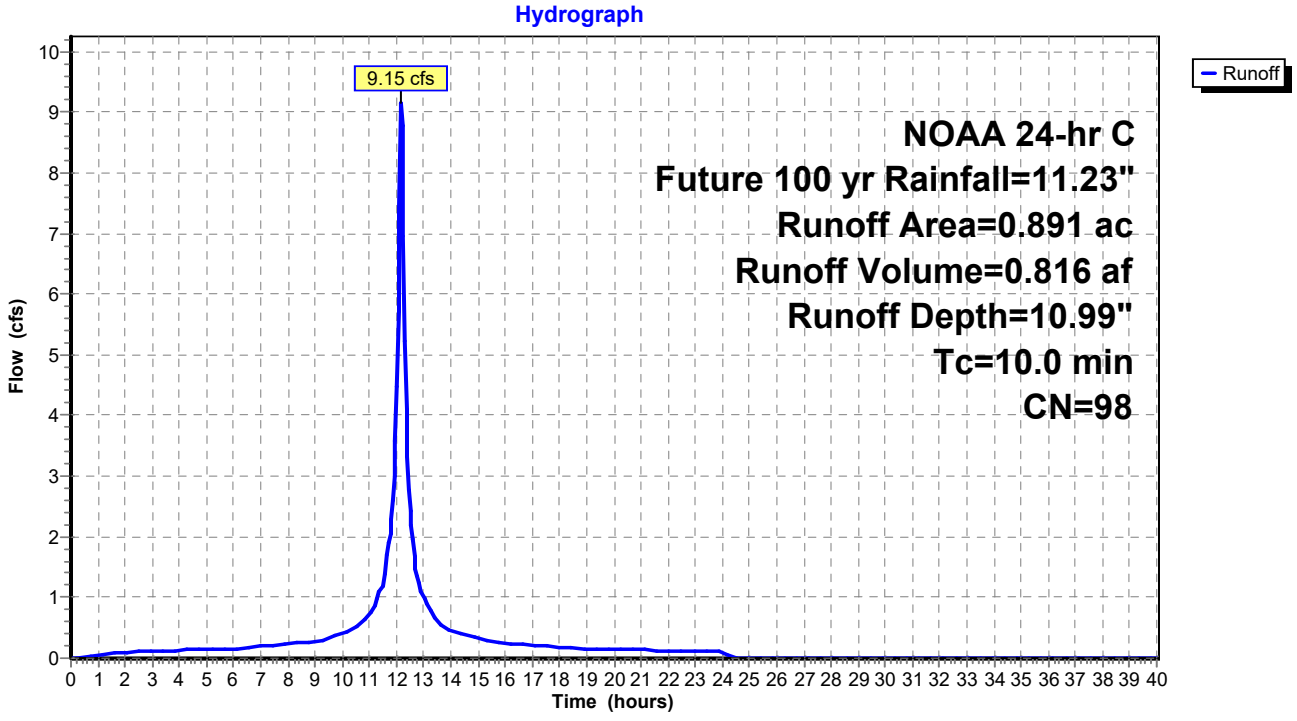
Runoff = 9.15 cfs @ 12.17 hrs, Volume= 0.816 af, Depth=10.99"
Routed to Pond B-40 : Basin #40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.568	98	Roof, HSG C
*	0.179	98	Concrete, HSC C
	0.144	98	Paved roads w/curbs & sewers, HSG C
	0.891	98	Weighted Average
	0.891		100.00% Impervious Area

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

Subcatchment 40l: PDA-40 (impervious)



Summary for Subcatchment 40P: PDA-40 (pervious)

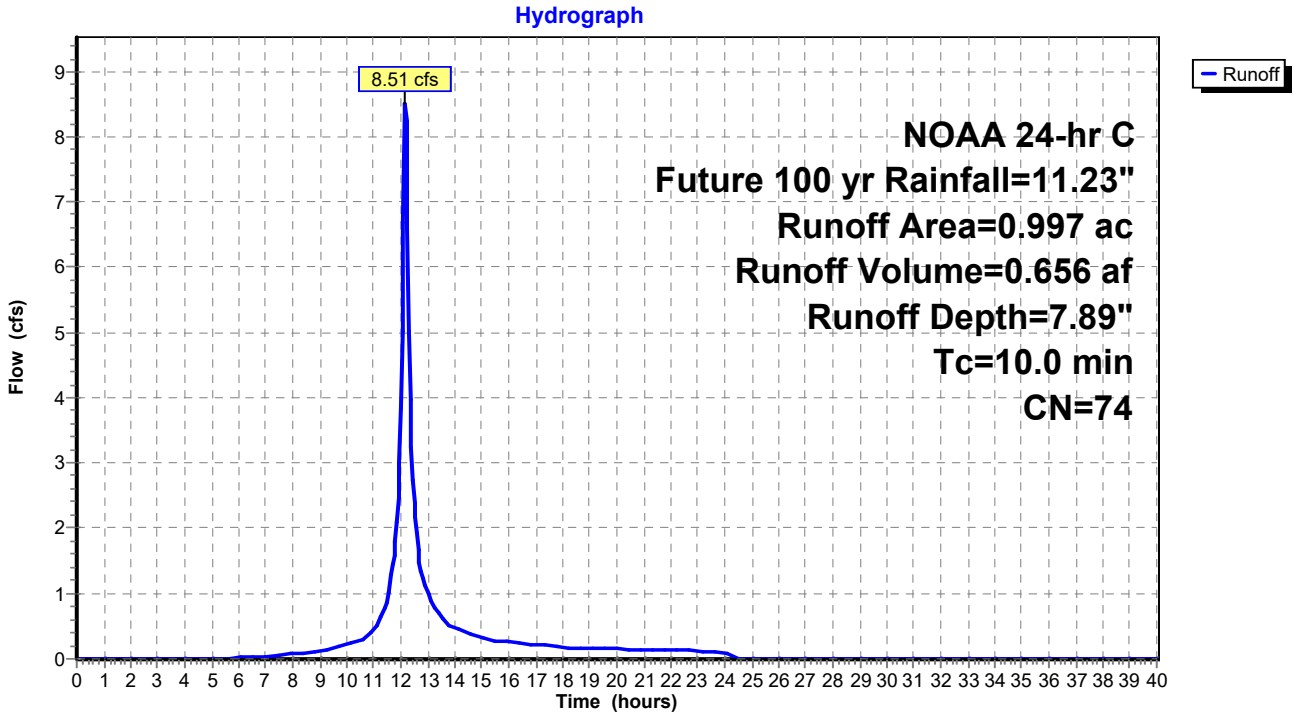
Runoff = 8.51 cfs @ 12.17 hrs, Volume= 0.656 af, Depth= 7.89"
Routed to Pond B-40 : Basin #40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.997	74	>75% Grass cover, Good, HSG C
0.997		100.00% Pervious Area

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

Subcatchment 40P: PDA-40 (pervious)



Summary for Subcatchment UPDA-3: PDA-3 (undetained)

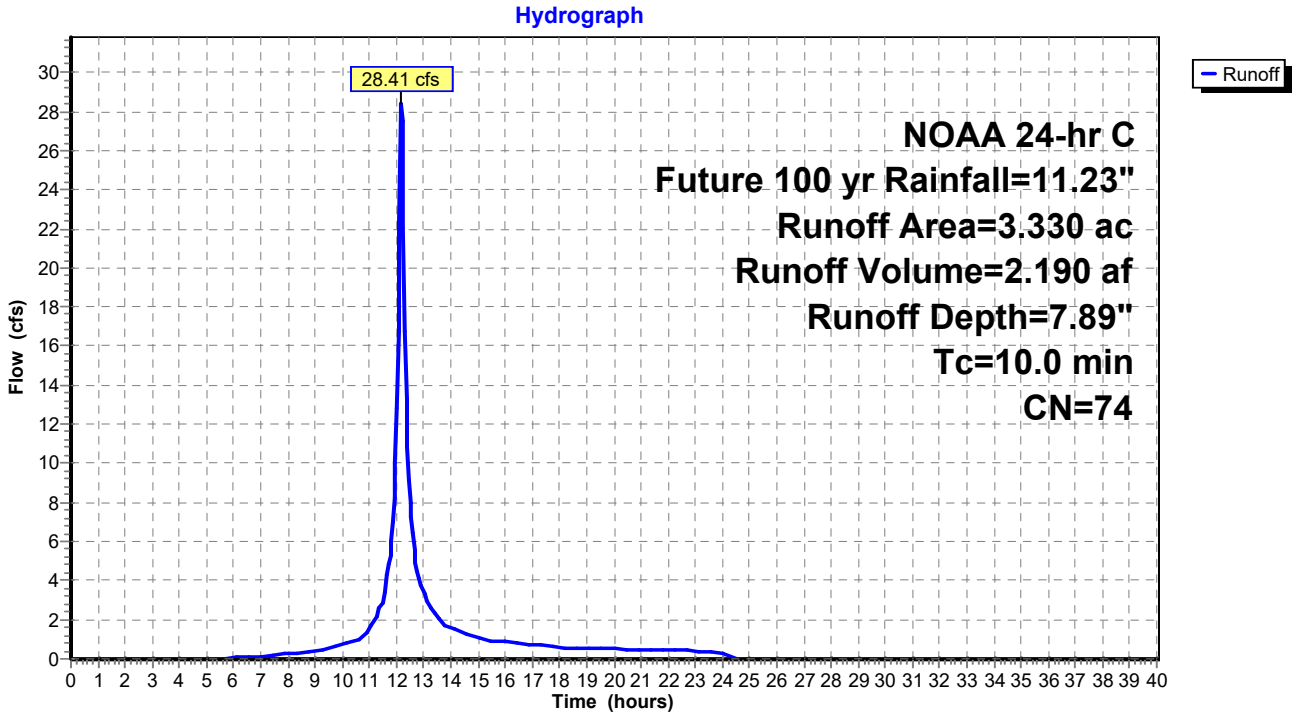
Runoff = 28.41 cfs @ 12.17 hrs, Volume= 2.190 af, Depth= 7.89"
Routed to Link PDA-3 : Proposed Drainage Area #3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
3.330	74	>75% Grass cover, Good, HSG C
3.330		100.00% Pervious Area

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

Subcatchment UPDA-3: PDA-3 (undetained)



Summary for Pond B-29: Basin #29

Inflow Area = 1.077 ac, 34.91% Impervious, Inflow Depth = 8.97" for Future 100 yr event
Inflow = 9.84 cfs @ 12.17 hrs, Volume= 0.805 af
Outflow = 7.41 cfs @ 12.26 hrs, Volume= 0.763 af, Atten= 25%, Lag= 5.3 min
Primary = 7.41 cfs @ 12.26 hrs, Volume= 0.763 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 187.69' @ 12.26 hrs Surf.Area= 7,293 sf Storage= 7,238 cf

Plug-Flow detention time= 92.9 min calculated for 0.762 af (95% of inflow)
Center-of-Mass det. time= 63.3 min (843.8 - 780.5)

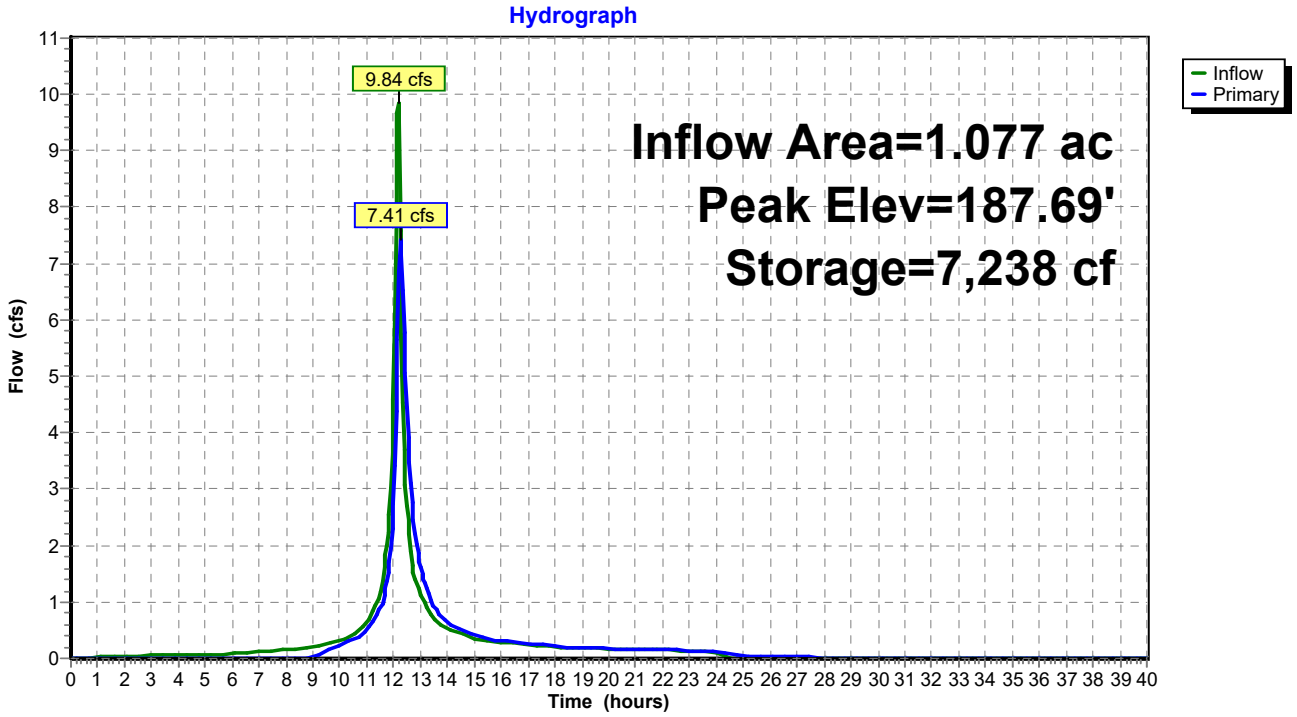
Volume	Invert	Avail.Storage	Storage Description
#1	186.30'	17,435 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
186.30	0	0	0
187.00	6,769	2,369	2,369
188.00	7,526	7,148	9,517
189.00	8,311	7,919	17,435

Device	Routing	Invert	Outlet Devices
#1	Primary	185.65'	**18.0" Round Culvert** L= 177.0' Ke= 0.500 Inlet / Outlet Invert= 185.65' / 182.00' S= 0.0206 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	186.88'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	187.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	188.17'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=7.35 cfs @ 12.26 hrs HW=187.69' (Free Discharge)
- **1=Culvert** (Passes 7.35 cfs of 9.66 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.14 cfs @ 4.04 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 7.22 cfs @ 2.71 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-29: Basin #29



Stage-Discharge for Pond B-29: Basin #29

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
186.30	0.00	186.82	0.00	187.34	2.65	187.86	10.14
186.31	0.00	186.83	0.00	187.35	2.76	187.87	10.31
186.32	0.00	186.84	0.00	187.36	2.88	187.88	10.35
186.33	0.00	186.85	0.00	187.37	2.99	187.89	10.39
186.34	0.00	186.86	0.00	187.38	3.11	187.90	10.42
186.35	0.00	186.87	0.00	187.39	3.23	187.91	10.46
186.36	0.00	186.88	0.00	187.40	3.35	187.92	10.49
186.37	0.00	186.89	0.00	187.41	3.47	187.93	10.52
186.38	0.00	186.90	0.00	187.42	3.59	187.94	10.56
186.39	0.00	186.91	0.00	187.43	3.72	187.95	10.59
186.40	0.00	186.92	0.00	187.44	3.84	187.96	10.63
186.41	0.00	186.93	0.00	187.45	3.97	187.97	10.66
186.42	0.00	186.94	0.01	187.46	4.10	187.98	10.70
186.43	0.00	186.95	0.01	187.47	4.23	187.99	10.73
186.44	0.00	186.96	0.01	187.48	4.36	188.00	10.76
186.45	0.00	186.97	0.01	187.49	4.49	188.01	10.80
186.46	0.00	186.98	0.02	187.50	4.63	188.02	10.83
186.47	0.00	186.99	0.02	187.51	4.76	188.03	10.86
186.48	0.00	187.00	0.02	187.52	4.90	188.04	10.90
186.49	0.00	187.01	0.04	187.53	5.03	188.05	10.93
186.50	0.00	187.02	0.07	187.54	5.17	188.06	10.96
186.51	0.00	187.03	0.10	187.55	5.31	188.07	11.00
186.52	0.00	187.04	0.14	187.56	5.45	188.08	11.03
186.53	0.00	187.05	0.19	187.57	5.59	188.09	11.06
186.54	0.00	187.06	0.24	187.58	5.74	188.10	11.09
186.55	0.00	187.07	0.29	187.59	5.88	188.11	11.13
186.56	0.00	187.08	0.35	187.60	6.03	188.12	11.16
186.57	0.00	187.09	0.40	187.61	6.17	188.13	11.19
186.58	0.00	187.10	0.47	187.62	6.32	188.14	11.22
186.59	0.00	187.11	0.53	187.63	6.47	188.15	11.26
186.60	0.00	187.12	0.60	187.64	6.62	188.16	11.29
186.61	0.00	187.13	0.67	187.65	6.77	188.17	11.32
186.62	0.00	187.14	0.75	187.66	6.92	188.18	11.47
186.63	0.00	187.15	0.82	187.67	7.07	188.19	11.72
186.64	0.00	187.16	0.90	187.68	7.22	188.20	12.02
186.65	0.00	187.17	0.98	187.69	7.38	188.21	12.39
186.66	0.00	187.18	1.06	187.70	7.53	188.22	12.79
186.67	0.00	187.19	1.15	187.71	7.69	188.23	13.23
186.68	0.00	187.20	1.23	187.72	7.84	188.24	13.72
186.69	0.00	187.21	1.32	187.73	8.00	188.25	14.23
186.70	0.00	187.22	1.41	187.74	8.16	188.26	14.78
186.71	0.00	187.23	1.51	187.75	8.32	188.27	15.35
186.72	0.00	187.24	1.60	187.76	8.48	188.28	15.96
186.73	0.00	187.25	1.70	187.77	8.64	188.29	16.59
186.74	0.00	187.26	1.80	187.78	8.81	188.30	17.25
186.75	0.00	187.27	1.90	187.79	8.97	188.31	17.93
186.76	0.00	187.28	2.00	187.80	9.13	188.32	18.64
186.77	0.00	187.29	2.10	187.81	9.30	188.33	19.37
186.78	0.00	187.30	2.21	187.82	9.46	188.34	20.12
186.79	0.00	187.31	2.32	187.83	9.63	188.35	20.89
186.80	0.00	187.32	2.42	187.84	9.80	188.36	21.69
186.81	0.00	187.33	2.54	187.85	9.97	188.37	22.51

Stage-Discharge for Pond B-29: Basin #29 (continued)

Elevation (feet)	Primary (cfs)
188.38	23.38
188.39	24.29
188.40	25.22
188.41	26.17
188.42	27.15
188.43	28.15
188.44	29.18
188.45	30.23
188.46	31.31
188.47	32.41
188.48	33.54
188.49	34.69
188.50	35.86
188.51	37.06
188.52	38.29
188.53	39.53
188.54	40.80
188.55	42.10
188.56	43.42
188.57	44.76
188.58	46.16
188.59	47.58
188.60	49.03
188.61	50.50
188.62	52.00
188.63	53.52
188.64	55.07
188.65	56.65
188.66	58.25
188.67	59.88
188.68	61.54
188.69	63.22
188.70	64.93
188.71	66.67
188.72	68.43
188.73	70.22
188.74	72.04
188.75	73.88
188.76	75.75
188.77	77.65
188.78	79.30
188.79	80.97
188.80	82.65
188.81	84.35
188.82	86.06
188.83	87.78
188.84	89.51
188.85	91.26
188.86	93.02
188.87	94.79
188.88	96.58
188.89	98.37
188.90	100.19
188.91	102.01
188.92	103.84
188.93	105.69
188.94	107.55
188.95	109.42
188.96	111.31
188.97	113.21
188.98	115.15
188.99	117.11
189.00	**119.08**

Stage-Area-Storage for Pond B-29: Basin #29

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.30	0	0
186.31	97	0
186.32	193	2
186.33	290	4
186.34	387	8
186.35	484	12
186.36	580	17
186.37	677	24
186.38	774	31
186.39	870	39
186.40	967	48
186.41	1,064	59
186.42	1,160	70
186.43	1,257	82
186.44	1,354	95
186.45	1,451	109
186.46	1,547	124
186.47	1,644	140
186.48	1,741	157
186.49	1,837	175
186.50	1,934	193
186.51	2,031	213
186.52	2,127	234
186.53	2,224	256
186.54	2,321	278
186.55	2,418	302
186.56	2,514	327
186.57	2,611	352
186.58	2,708	379
186.59	2,804	407
186.60	2,901	435
186.61	2,998	465
186.62	3,094	495
186.63	3,191	527
186.64	3,288	559
186.65	3,385	592
186.66	3,481	627
186.67	3,578	662
186.68	3,675	698
186.69	3,771	735
186.70	3,868	774
186.71	3,965	813
186.72	4,061	853
186.73	4,158	894
186.74	4,255	936
186.75	4,351	979
186.76	4,448	1,023
186.77	4,545	1,068
186.78	4,642	1,114
186.79	4,738	1,161
186.80	4,835	1,209
186.81	4,932	1,258
186.82	5,028	1,307
186.83	5,125	1,358
186.84	5,222	1,410
186.85	5,319	1,463
186.86	5,415	1,516
186.87	5,512	1,571
186.88	5,609	1,626
186.89	5,705	1,683
186.90	5,802	1,741
186.91	5,899	1,799
186.92	5,995	1,859
186.93	6,092	1,919
186.94	6,189	1,980
186.95	6,286	2,043
186.96	6,382	2,106
186.97	6,479	2,170
186.98	6,576	2,236
186.99	6,672	2,302
187.00	6,769	2,369
187.01	6,777	2,437
187.02	6,784	2,505
187.03	6,792	2,573
187.04	6,799	2,641
187.05	6,807	2,709
187.06	6,814	2,777
187.07	6,822	2,845
187.08	6,830	2,913
187.09	6,837	2,981
187.10	6,845	3,050
187.11	6,852	3,118
187.12	6,860	3,187
187.13	6,867	3,256
187.14	6,875	3,324
187.15	6,883	3,393
187.16	6,890	3,462
187.17	6,898	3,531
187.18	6,905	3,600
187.19	6,913	3,669
187.20	6,920	3,738
187.21	6,928	3,807
187.22	6,936	3,877
187.23	6,943	3,946
187.24	6,951	4,016
187.25	6,958	4,085
187.26	6,966	4,155
187.27	6,973	4,224
187.28	6,981	4,294
187.29	6,989	4,364
187.30	6,996	4,434
187.31	7,004	4,504
187.32	7,011	4,574
187.33	7,019	4,644

Stage-Area-Storage for Pond B-29: Basin #29 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.34	7,026	4,714	187.86	7,420	8,470
187.35	7,034	4,785	187.87	7,428	8,545
187.36	7,042	4,855	187.88	7,435	8,619
187.37	7,049	4,925	187.89	7,443	8,693
187.38	7,057	4,996	187.90	7,450	8,768
187.39	7,064	5,067	187.91	7,458	8,842
187.40	7,072	5,137	187.92	7,465	8,917
187.41	7,079	5,208	187.93	7,473	8,992
187.42	7,087	5,279	187.94	7,481	9,066
187.43	7,095	5,350	187.95	7,488	9,141
187.44	7,102	5,421	187.96	7,496	9,216
187.45	7,110	5,492	187.97	7,503	9,291
187.46	7,117	5,563	187.98	7,511	9,366
187.47	7,125	5,634	187.99	7,518	9,441
187.48	7,132	5,705	188.00	7,526	9,517
187.49	7,140	5,777	188.01	7,534	9,592
187.50	7,148	5,848	188.02	7,542	9,667
187.51	7,155	5,920	188.03	7,550	9,743
187.52	7,163	5,991	188.04	7,557	9,818
187.53	7,170	6,063	188.05	7,565	9,894
187.54	7,178	6,135	188.06	7,573	9,970
187.55	7,185	6,207	188.07	7,581	10,045
187.56	7,193	6,278	188.08	7,589	10,121
187.57	7,200	6,350	188.09	7,597	10,197
187.58	7,208	6,422	188.10	7,605	10,273
187.59	7,216	6,495	188.11	7,612	10,349
187.60	7,223	6,567	188.12	7,620	10,425
187.61	7,231	6,639	188.13	7,628	10,502
187.62	7,238	6,711	188.14	7,636	10,578
187.63	7,246	6,784	188.15	7,644	10,654
187.64	7,253	6,856	188.16	7,652	10,731
187.65	7,261	6,929	188.17	7,659	10,807
187.66	7,269	7,002	188.18	7,667	10,884
187.67	7,276	7,074	188.19	7,675	10,961
187.68	7,284	7,147	188.20	7,683	11,038
187.69	7,291	7,220	188.21	7,691	11,114
187.70	7,299	7,293	188.22	7,699	11,191
187.71	7,306	7,366	188.23	7,707	11,268
187.72	7,314	7,439	188.24	7,714	11,345
187.73	7,322	7,512	188.25	7,722	11,423
187.74	7,329	7,585	188.26	7,730	11,500
187.75	7,337	7,659	188.27	7,738	11,577
187.76	7,344	7,732	188.28	7,746	11,655
187.77	7,352	7,806	188.29	7,754	11,732
187.78	7,359	7,879	188.30	7,762	11,810
187.79	7,367	7,953	188.31	7,769	11,887
187.80	7,375	8,027	188.32	7,777	11,965
187.81	7,382	8,100	188.33	7,785	12,043
187.82	7,390	8,174	188.34	7,793	12,121
187.83	7,397	8,248	188.35	7,801	12,199
187.84	7,405	8,322	188.36	7,809	12,277
187.85	7,412	8,396	188.37	7,816	12,355

Stage-Area-Storage for Pond B-29: Basin #29 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
188.38	7,824	12,433
188.39	7,832	12,511
188.40	7,840	12,590
188.41	7,848	12,668
188.42	7,856	12,747
188.43	7,864	12,825
188.44	7,871	12,904
188.45	7,879	12,983
188.46	7,887	13,062
188.47	7,895	13,141
188.48	7,903	13,220
188.49	7,911	13,299
188.50	7,919	13,378
188.51	7,926	13,457
188.52	7,934	13,536
188.53	7,942	13,616
188.54	7,950	13,695
188.55	7,958	13,775
188.56	7,966	13,854
188.57	7,973	13,934
188.58	7,981	14,014
188.59	7,989	14,094
188.60	7,997	14,174
188.61	8,005	14,254
188.62	8,013	14,334
188.63	8,021	14,414
188.64	8,028	14,494
188.65	8,036	14,574
188.66	8,044	14,655
188.67	8,052	14,735
188.68	8,060	14,816
188.69	8,068	14,896
188.70	8,076	14,977
188.71	8,083	15,058
188.72	8,091	15,139
188.73	8,099	15,220
188.74	8,107	15,301
188.75	8,115	15,382
188.76	8,123	15,463
188.77	8,130	15,544
188.78	8,138	15,626
188.79	8,146	15,707
188.80	8,154	15,789
188.81	8,162	15,870
188.82	8,170	15,952
188.83	8,178	16,034
188.84	8,185	16,115
188.85	8,193	16,197
188.86	8,201	16,279
188.87	8,209	16,361
188.88	8,217	16,443
188.89	8,225	16,526
188.90	8,233	16,608
188.91	8,240	16,690
188.92	8,248	16,773
188.93	8,256	16,855
188.94	8,264	16,938
188.95	8,272	17,021
188.96	8,280	17,103
188.97	8,287	17,186
188.98	8,295	17,269
188.99	8,303	17,352
189.00	**8,311**	**17,435**

Summary for Pond B-30: Basin #30

Inflow Area = 5.727 ac, 37.05% Impervious, Inflow Depth > 8.84" for Future 100 yr event
Inflow = 43.89 cfs @ 12.19 hrs, Volume= 4.217 af
Outflow = 35.51 cfs @ 12.30 hrs, Volume= 3.775 af, Atten= 19%, Lag= 6.3 min
Primary = 35.51 cfs @ 12.30 hrs, Volume= 3.775 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 179.79' @ 12.30 hrs Surf.Area= 16,306 sf Storage= 53,622 cf

Plug-Flow detention time= 182.1 min calculated for 3.770 af (89% of inflow)
Center-of-Mass det. time= 118.8 min (946.1 - 827.3)

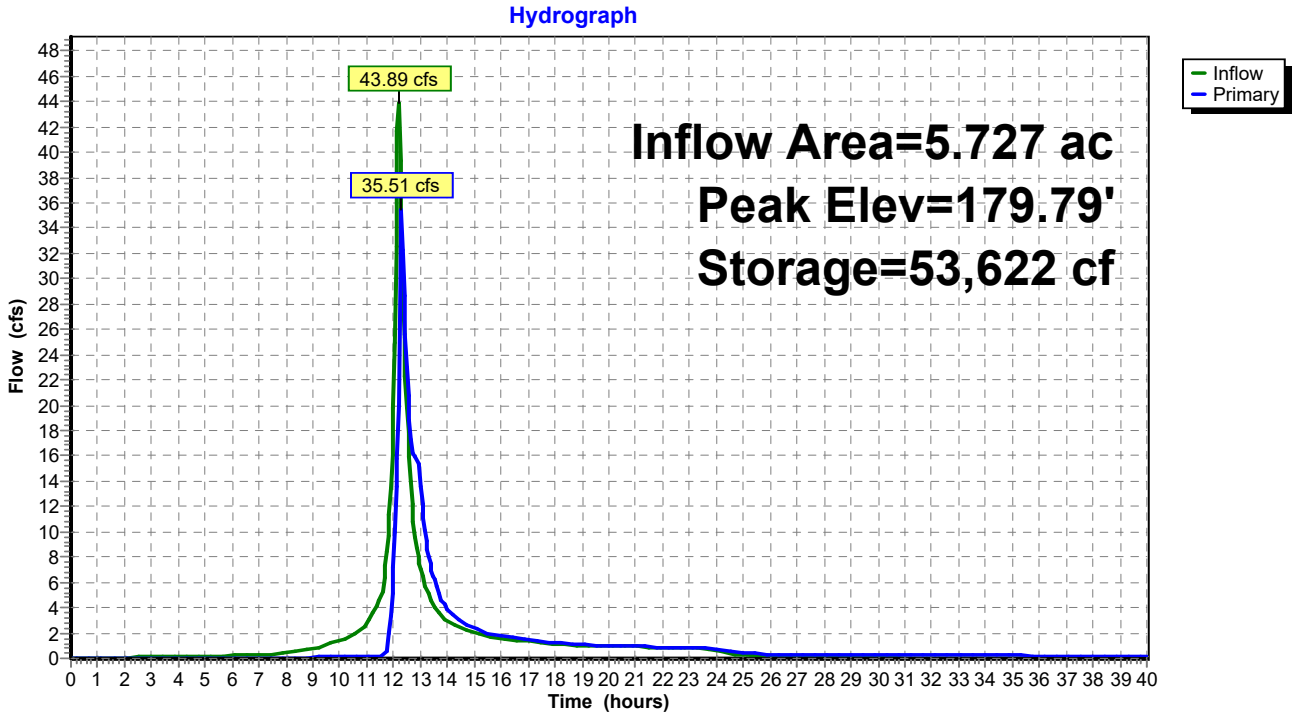
Volume	Invert	Avail.Storage	Storage Description
#1	175.30'	57,146 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
175.30	0	0	0
176.00	10,254	3,589	3,589
177.00	11,773	11,014	14,602
178.00	13,346	12,560	27,162
179.00	14,978	14,162	41,324
180.00	16,667	15,823	57,146

Device	Routing	Invert	Outlet Devices
#1	Primary	174.65'	**18.0" Round Culvert** L= 86.0' Ke= 0.500 Inlet / Outlet Invert= 174.65' / 174.00' S= 0.0076 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	175.93'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	178.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	179.50'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=35.26 cfs @ 12.30 hrs HW=179.78' (Free Discharge)
- **1=Culvert** (Barrel Controls 16.75 cfs @ 9.48 fps)
  - **2=Orifice/Grate** (Passes < 0.32 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 28.40 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Weir Controls 18.52 cfs @ 1.28 fps)

Pond B-30: Basin #30



Stage-Discharge for Pond B-30: Basin #30

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
175.30	0.00	175.82	0.00	176.34	0.09	176.86	0.15
175.31	0.00	175.83	0.00	176.35	0.09	176.87	0.15
175.32	0.00	175.84	0.00	176.36	0.09	176.88	0.15
175.33	0.00	175.85	0.00	176.37	0.10	176.89	0.15
175.34	0.00	175.86	0.00	176.38	0.10	176.90	0.15
175.35	0.00	175.87	0.00	176.39	0.10	176.91	0.15
175.36	0.00	175.88	0.00	176.40	0.10	176.92	0.15
175.37	0.00	175.89	0.00	176.41	0.10	176.93	0.16
175.38	0.00	175.90	0.00	176.42	0.10	176.94	0.16
175.39	0.00	175.91	0.00	176.43	0.10	176.95	0.16
175.40	0.00	175.92	0.00	176.44	0.10	176.96	0.16
175.41	0.00	175.93	0.00	176.45	0.11	176.97	0.16
175.42	0.00	175.94	0.00	176.46	0.11	176.98	0.16
175.43	0.00	175.95	0.00	176.47	0.11	176.99	0.16
175.44	0.00	175.96	0.00	176.48	0.11	177.00	0.16
175.45	0.00	175.97	0.00	176.49	0.11	177.01	0.16
175.46	0.00	175.98	0.00	176.50	0.11	177.02	0.16
175.47	0.00	175.99	0.01	176.51	0.11	177.03	0.16
175.48	0.00	176.00	0.01	176.52	0.11	177.04	0.16
175.49	0.00	176.01	0.01	176.53	0.12	177.05	0.17
175.50	0.00	176.02	0.01	176.54	0.12	177.06	0.17
175.51	0.00	176.03	0.02	176.55	0.12	177.07	0.17
175.52	0.00	176.04	0.02	176.56	0.12	177.08	0.17
175.53	0.00	176.05	0.02	176.57	0.12	177.09	0.17
175.54	0.00	176.06	0.03	176.58	0.12	177.10	0.17
175.55	0.00	176.07	0.03	176.59	0.12	177.11	0.17
175.56	0.00	176.08	0.03	176.60	0.12	177.12	0.17
175.57	0.00	176.09	0.04	176.61	0.12	177.13	0.17
175.58	0.00	176.10	0.04	176.62	0.13	177.14	0.17
175.59	0.00	176.11	0.05	176.63	0.13	177.15	0.17
175.60	0.00	176.12	0.05	176.64	0.13	177.16	0.17
175.61	0.00	176.13	0.05	176.65	0.13	177.17	0.17
175.62	0.00	176.14	0.05	176.66	0.13	177.18	0.18
175.63	0.00	176.15	0.06	176.67	0.13	177.19	0.18
175.64	0.00	176.16	0.06	176.68	0.13	177.20	0.18
175.65	0.00	176.17	0.06	176.69	0.13	177.21	0.18
175.66	0.00	176.18	0.06	176.70	0.13	177.22	0.18
175.67	0.00	176.19	0.06	176.71	0.13	177.23	0.18
175.68	0.00	176.20	0.07	176.72	0.14	177.24	0.18
175.69	0.00	176.21	0.07	176.73	0.14	177.25	0.18
175.70	0.00	176.22	0.07	176.74	0.14	177.26	0.18
175.71	0.00	176.23	0.07	176.75	0.14	177.27	0.18
175.72	0.00	176.24	0.07	176.76	0.14	177.28	0.18
175.73	0.00	176.25	0.08	176.77	0.14	177.29	0.18
175.74	0.00	176.26	0.08	176.78	0.14	177.30	0.18
175.75	0.00	176.27	0.08	176.79	0.14	177.31	0.19
175.76	0.00	176.28	0.08	176.80	0.14	177.32	0.19
175.77	0.00	176.29	0.08	176.81	0.14	177.33	0.19
175.78	0.00	176.30	0.08	176.82	0.15	177.34	0.19
175.79	0.00	176.31	0.09	176.83	0.15	177.35	0.19
175.80	0.00	176.32	0.09	176.84	0.15	177.36	0.19
175.81	0.00	176.33	0.09	176.85	0.15	177.37	0.19

Stage-Discharge for Pond B-30: Basin #30 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
177.38	0.19	177.90	0.22	178.42	3.74	178.94	11.64
177.39	0.19	177.91	0.22	178.43	3.86	178.95	11.82
177.40	0.19	177.92	0.23	178.44	3.99	178.96	11.99
177.41	0.19	177.93	0.23	178.45	4.11	178.97	12.17
177.42	0.19	177.94	0.23	178.46	4.24	178.98	12.35
177.43	0.19	177.95	0.23	178.47	4.37	178.99	12.53
177.44	0.19	177.96	0.23	178.48	4.50	179.00	12.71
177.45	0.20	177.97	0.23	178.49	4.63	179.01	12.89
177.46	0.20	177.98	0.23	178.50	4.77	179.02	13.07
177.47	0.20	177.99	0.23	178.51	4.90	179.03	13.25
177.48	0.20	178.00	0.23	178.52	5.04	179.04	13.44
177.49	0.20	178.01	0.24	178.53	5.17	179.05	13.62
177.50	0.20	178.02	0.27	178.54	5.31	179.06	13.80
177.51	0.20	178.03	0.30	178.55	5.45	179.07	13.99
177.52	0.20	178.04	0.34	178.56	5.59	179.08	14.17
177.53	0.20	178.05	0.38	178.57	5.73	179.09	14.36
177.54	0.20	178.06	0.43	178.58	5.87	179.10	14.55
177.55	0.20	178.07	0.48	178.59	6.02	179.11	14.74
177.56	0.20	178.08	0.53	178.60	6.16	179.12	14.92
177.57	0.20	178.09	0.59	178.61	6.31	179.13	15.11
177.58	0.20	178.10	0.65	178.62	6.45	179.14	15.30
177.59	0.20	178.11	0.71	178.63	6.60	179.15	15.46
177.60	0.21	178.12	0.78	178.64	6.75	179.16	15.48
177.61	0.21	178.13	0.85	178.65	6.90	179.17	15.50
177.62	0.21	178.14	0.92	178.66	7.05	179.18	15.52
177.63	0.21	178.15	0.99	178.67	7.20	179.19	15.54
177.64	0.21	178.16	1.07	178.68	7.35	179.20	15.56
177.65	0.21	178.17	1.15	178.69	7.51	179.21	15.58
177.66	0.21	178.18	1.23	178.70	7.66	179.22	15.60
177.67	0.21	178.19	1.31	178.71	7.82	179.23	15.62
177.68	0.21	178.20	1.40	178.72	7.97	179.24	15.65
177.69	0.21	178.21	1.49	178.73	8.13	179.25	15.67
177.70	0.21	178.22	1.58	178.74	8.29	179.26	15.69
177.71	0.21	178.23	1.67	178.75	8.45	179.27	15.71
177.72	0.21	178.24	1.76	178.76	8.61	179.28	15.73
177.73	0.21	178.25	1.86	178.77	8.77	179.29	15.75
177.74	0.21	178.26	1.96	178.78	8.93	179.30	15.77
177.75	0.22	178.27	2.06	178.79	9.09	179.31	15.79
177.76	0.22	178.28	2.16	178.80	9.26	179.32	15.81
177.77	0.22	178.29	2.26	178.81	9.42	179.33	15.83
177.78	0.22	178.30	2.36	178.82	9.59	179.34	15.85
177.79	0.22	178.31	2.47	178.83	9.75	179.35	15.87
177.80	0.22	178.32	2.58	178.84	9.92	179.36	15.89
177.81	0.22	178.33	2.69	178.85	10.09	179.37	15.91
177.82	0.22	178.34	2.80	178.86	10.26	179.38	15.94
177.83	0.22	178.35	2.91	178.87	10.43	179.39	15.96
177.84	0.22	178.36	3.02	178.88	10.60	179.40	15.98
177.85	0.22	178.37	3.14	178.89	10.77	179.41	16.00
177.86	0.22	178.38	3.26	178.90	10.94	179.42	16.02
177.87	0.22	178.39	3.38	178.91	11.12	179.43	16.04
177.88	0.22	178.40	3.50	178.92	11.29	179.44	16.06
177.89	0.22	178.41	3.62	178.93	11.46	179.45	16.08

Stage-Discharge for Pond B-30: Basin #30 (continued)

Elevation (feet)	Primary (cfs)
179.46	16.10
179.47	16.12
179.48	16.14
179.49	16.16
179.50	16.18
179.51	16.32
179.52	16.55
179.53	16.85
179.54	17.20
179.55	17.59
179.56	18.03
179.57	18.50
179.58	19.00
179.59	19.53
179.60	20.10
179.61	20.69
179.62	21.31
179.63	21.96
179.64	22.63
179.65	23.33
179.66	24.05
179.67	24.79
179.68	25.55
179.69	26.34
179.70	27.14
179.71	28.01
179.72	28.90
179.73	29.82
179.74	30.76
179.75	31.73
179.76	32.72
179.77	33.74
179.78	34.79
179.79	35.85
179.80	36.94
179.81	38.06
179.82	39.20
179.83	40.37
179.84	41.56
179.85	42.77
179.86	44.01
179.87	45.27
179.88	46.56
179.89	47.87
179.90	49.20
179.91	50.58
179.92	52.00
179.93	53.43
179.94	54.90
179.95	56.39
179.96	57.90
179.97	59.44
179.98	61.01
179.99	62.61
180.00	**64.23**

Stage-Area-Storage for Pond B-30: Basin #30

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
175.30	0	0	175.82	7,617	1,980
175.31	146	1	175.83	7,764	2,057
175.32	293	3	175.84	7,910	2,136
175.33	439	7	175.85	8,057	2,216
175.34	586	12	175.86	8,203	2,297
175.35	732	18	175.87	8,350	2,380
175.36	879	26	175.88	8,496	2,464
175.37	1,025	36	175.89	8,643	2,550
175.38	1,172	47	175.90	8,789	2,637
175.39	1,318	59	175.91	8,936	2,725
175.40	1,465	73	175.92	9,082	2,815
175.41	1,611	89	175.93	9,229	2,907
175.42	1,758	105	175.94	9,375	3,000
175.43	1,904	124	175.95	9,522	3,095
175.44	2,051	144	175.96	9,668	3,190
175.45	2,197	165	175.97	9,815	3,288
175.46	2,344	188	175.98	9,961	3,387
175.47	2,490	212	175.99	10,108	3,487
175.48	2,637	237	176.00	10,254	3,589
175.49	2,783	264	176.01	10,269	3,692
175.50	2,930	293	176.02	10,284	3,794
175.51	3,076	323	176.03	10,300	3,897
175.52	3,223	354	176.04	10,315	4,000
175.53	3,369	387	176.05	10,330	4,103
175.54	3,516	422	176.06	10,345	4,207
175.55	3,662	458	176.07	10,360	4,310
175.56	3,809	495	176.08	10,376	4,414
175.57	3,955	534	176.09	10,391	4,518
175.58	4,102	574	176.10	10,406	4,622
175.59	4,248	616	176.11	10,421	4,726
175.60	4,395	659	176.12	10,436	4,830
175.61	4,541	704	176.13	10,451	4,935
175.62	4,688	750	176.14	10,467	5,039
175.63	4,834	798	176.15	10,482	5,144
175.64	4,981	847	176.16	10,497	5,249
175.65	5,127	897	176.17	10,512	5,354
175.66	5,273	949	176.18	10,527	5,459
175.67	5,420	1,003	176.19	10,543	5,565
175.68	5,566	1,058	176.20	10,558	5,670
175.69	5,713	1,114	176.21	10,573	5,776
175.70	5,859	1,172	176.22	10,588	5,882
175.71	6,006	1,231	176.23	10,603	5,987
175.72	6,152	1,292	176.24	10,619	6,094
175.73	6,299	1,354	176.25	10,634	6,200
175.74	6,445	1,418	176.26	10,649	6,306
175.75	6,592	1,483	176.27	10,664	6,413
175.76	6,738	1,550	176.28	10,679	6,520
175.77	6,885	1,618	176.29	10,695	6,626
175.78	7,031	1,688	176.30	10,710	6,733
175.79	7,178	1,759	176.31	10,725	6,841
175.80	7,324	1,831	176.32	10,740	6,948
175.81	7,471	1,905	176.33	10,755	7,055

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
176.34	10,770	7,163	176.86	11,560	12,969
176.35	10,786	7,271	176.87	11,576	13,085
176.36	10,801	7,379	176.88	11,591	13,201
176.37	10,816	7,487	176.89	11,606	13,317
176.38	10,831	7,595	176.90	11,621	13,433
176.39	10,846	7,703	176.91	11,636	13,549
176.40	10,862	7,812	176.92	11,651	13,665
176.41	10,877	7,921	176.93	11,667	13,782
176.42	10,892	8,030	176.94	11,682	13,899
176.43	10,907	8,139	176.95	11,697	14,016
176.44	10,922	8,248	176.96	11,712	14,133
176.45	10,938	8,357	176.97	11,727	14,250
176.46	10,953	8,466	176.98	11,743	14,367
176.47	10,968	8,576	176.99	11,758	14,485
176.48	10,983	8,686	177.00	11,773	14,602
176.49	10,998	8,796	177.01	11,789	14,720
176.50	11,014	8,906	177.02	11,804	14,838
176.51	11,029	9,016	177.03	11,820	14,956
176.52	11,044	9,126	177.04	11,836	15,075
176.53	11,059	9,237	177.05	11,852	15,193
176.54	11,074	9,348	177.06	11,867	15,312
176.55	11,089	9,458	177.07	11,883	15,430
176.56	11,105	9,569	177.08	11,899	15,549
176.57	11,120	9,680	177.09	11,915	15,668
176.58	11,135	9,792	177.10	11,930	15,788
176.59	11,150	9,903	177.11	11,946	15,907
176.60	11,165	10,015	177.12	11,962	16,026
176.61	11,181	10,126	177.13	11,977	16,146
176.62	11,196	10,238	177.14	11,993	16,266
176.63	11,211	10,350	177.15	12,009	16,386
176.64	11,226	10,463	177.16	12,025	16,506
176.65	11,241	10,575	177.17	12,040	16,627
176.66	11,257	10,687	177.18	12,056	16,747
176.67	11,272	10,800	177.19	12,072	16,868
176.68	11,287	10,913	177.20	12,088	16,988
176.69	11,302	11,026	177.21	12,103	17,109
176.70	11,317	11,139	177.22	12,119	17,231
176.71	11,332	11,252	177.23	12,135	17,352
176.72	11,348	11,366	177.24	12,151	17,473
176.73	11,363	11,479	177.25	12,166	17,595
176.74	11,378	11,593	177.26	12,182	17,717
176.75	11,393	11,707	177.27	12,198	17,838
176.76	11,408	11,821	177.28	12,213	17,961
176.77	11,424	11,935	177.29	12,229	18,083
176.78	11,439	12,049	177.30	12,245	18,205
176.79	11,454	12,164	177.31	12,261	18,328
176.80	11,469	12,278	177.32	12,276	18,450
176.81	11,484	12,393	177.33	12,292	18,573
176.82	11,500	12,508	177.34	12,308	18,696
176.83	11,515	12,623	177.35	12,324	18,819
176.84	11,530	12,738	177.36	12,339	18,943
176.85	11,545	12,854	177.37	12,355	19,066

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
177.38	12,371	19,190
177.39	12,386	19,313
177.40	12,402	19,437
177.41	12,418	19,562
177.42	12,434	19,686
177.43	12,449	19,810
177.44	12,465	19,935
177.45	12,481	20,060
177.46	12,497	20,184
177.47	12,512	20,309
177.48	12,528	20,435
177.49	12,544	20,560
177.50	12,560	20,686
177.51	12,575	20,811
177.52	12,591	20,937
177.53	12,607	21,063
177.54	12,622	21,189
177.55	12,638	21,315
177.56	12,654	21,442
177.57	12,670	21,569
177.58	12,685	21,695
177.59	12,701	21,822
177.60	12,717	21,949
177.61	12,733	22,077
177.62	12,748	22,204
177.63	12,764	22,332
177.64	12,780	22,459
177.65	12,795	22,587
177.66	12,811	22,715
177.67	12,827	22,843
177.68	12,843	22,972
177.69	12,858	23,100
177.70	12,874	23,229
177.71	12,890	23,358
177.72	12,906	23,487
177.73	12,921	23,616
177.74	12,937	23,745
177.75	12,953	23,875
177.76	12,968	24,004
177.77	12,984	24,134
177.78	13,000	24,264
177.79	13,016	24,394
177.80	13,031	24,524
177.81	13,047	24,655
177.82	13,063	24,785
177.83	13,079	24,916
177.84	13,094	25,047
177.85	13,110	25,178
177.86	13,126	25,309
177.87	13,142	25,440
177.88	13,157	25,572
177.89	13,173	25,703
177.90	13,189	25,835
177.91	13,204	25,967
177.92	13,220	26,099
177.93	13,236	26,232
177.94	13,252	26,364
177.95	13,267	26,497
177.96	13,283	26,629
177.97	13,299	26,762
177.98	13,315	26,895
177.99	13,330	27,029
178.00	13,346	27,162
178.01	13,362	27,295
178.02	13,379	27,429
178.03	13,395	27,563
178.04	13,411	27,697
178.05	13,428	27,831
178.06	13,444	27,966
178.07	13,460	28,100
178.08	13,477	28,235
178.09	13,493	28,370
178.10	13,509	28,505
178.11	13,526	28,640
178.12	13,542	28,775
178.13	13,558	28,911
178.14	13,574	29,046
178.15	13,591	29,182
178.16	13,607	29,318
178.17	13,623	29,454
178.18	13,640	29,591
178.19	13,656	29,727
178.20	13,672	29,864
178.21	13,689	30,001
178.22	13,705	30,138
178.23	13,721	30,275
178.24	13,738	30,412
178.25	13,754	30,549
178.26	13,770	30,687
178.27	13,787	30,825
178.28	13,803	30,963
178.29	13,819	31,101
178.30	13,836	31,239
178.31	13,852	31,378
178.32	13,868	31,516
178.33	13,885	31,655
178.34	13,901	31,794
178.35	13,917	31,933
178.36	13,934	32,072
178.37	13,950	32,212
178.38	13,966	32,351
178.39	13,982	32,491
178.40	13,999	32,631
178.41	14,015	32,771

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.42	14,031	32,911
178.43	14,048	33,052
178.44	14,064	33,192
178.45	14,080	33,333
178.46	14,097	33,474
178.47	14,113	33,615
178.48	14,129	33,756
178.49	14,146	33,897
178.50	14,162	34,039
178.51	14,178	34,181
178.52	14,195	34,322
178.53	14,211	34,464
178.54	14,227	34,607
178.55	14,244	34,749
178.56	14,260	34,892
178.57	14,276	35,034
178.58	14,293	35,177
178.59	14,309	35,320
178.60	14,325	35,463
178.61	14,342	35,607
178.62	14,358	35,750
178.63	14,374	35,894
178.64	14,390	36,038
178.65	14,407	36,182
178.66	14,423	36,326
178.67	14,439	36,470
178.68	14,456	36,614
178.69	14,472	36,759
178.70	14,488	36,904
178.71	14,505	37,049
178.72	14,521	37,194
178.73	14,537	37,339
178.74	14,554	37,485
178.75	14,570	37,630
178.76	14,586	37,776
178.77	14,603	37,922
178.78	14,619	38,068
178.79	14,635	38,215
178.80	14,652	38,361
178.81	14,668	38,508
178.82	14,684	38,654
178.83	14,701	38,801
178.84	14,717	38,948
178.85	14,733	39,096
178.86	14,750	39,243
178.87	14,766	39,391
178.88	14,782	39,538
178.89	14,798	39,686
178.90	14,815	39,834
178.91	14,831	39,982
178.92	14,847	40,131
178.93	14,864	40,279
178.94	14,880	40,428
178.95	14,896	40,577
178.96	14,913	40,726
178.97	14,929	40,875
178.98	14,945	41,025
178.99	14,962	41,174
179.00	14,978	41,324
179.01	14,995	41,474
179.02	15,012	41,624
179.03	15,029	41,774
179.04	15,046	41,924
179.05	15,062	42,075
179.06	15,079	42,226
179.07	15,096	42,376
179.08	15,113	42,528
179.09	15,130	42,679
179.10	15,147	42,830
179.11	15,164	42,982
179.12	15,181	43,133
179.13	15,198	43,285
179.14	15,214	43,437
179.15	15,231	43,590
179.16	15,248	43,742
179.17	15,265	43,895
179.18	15,282	44,047
179.19	15,299	44,200
179.20	15,316	44,353
179.21	15,333	44,507
179.22	15,350	44,660
179.23	15,366	44,814
179.24	15,383	44,967
179.25	15,400	45,121
179.26	15,417	45,275
179.27	15,434	45,430
179.28	15,451	45,584
179.29	15,468	45,739
179.30	15,485	45,893
179.31	15,502	46,048
179.32	15,518	46,203
179.33	15,535	46,359
179.34	15,552	46,514
179.35	15,569	46,670
179.36	15,586	46,825
179.37	15,603	46,981
179.38	15,620	47,137
179.39	15,637	47,294
179.40	15,654	47,450
179.41	15,670	47,607
179.42	15,687	47,764
179.43	15,704	47,921
179.44	15,721	48,078
179.45	15,738	48,235

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.46	15,755	48,392
179.47	15,772	48,550
179.48	15,789	48,708
179.49	15,806	48,866
179.50	15,823	49,024
179.51	15,839	49,182
179.52	15,856	49,341
179.53	15,873	49,499
179.54	15,890	49,658
179.55	15,907	49,817
179.56	15,924	49,976
179.57	15,941	50,136
179.58	15,958	50,295
179.59	15,975	50,455
179.60	15,991	50,615
179.61	16,008	50,775
179.62	16,025	50,935
179.63	16,042	51,095
179.64	16,059	51,256
179.65	16,076	51,416
179.66	16,093	51,577
179.67	16,110	51,738
179.68	16,127	51,899
179.69	16,143	52,061
179.70	16,160	52,222
179.71	16,177	52,384
179.72	16,194	52,546
179.73	16,211	52,708
179.74	16,228	52,870
179.75	16,245	53,032
179.76	16,262	53,195
179.77	16,279	53,358
179.78	16,295	53,521
179.79	16,312	53,684
179.80	16,329	53,847
179.81	16,346	54,010
179.82	16,363	54,174
179.83	16,380	54,337
179.84	16,397	54,501
179.85	16,414	54,665
179.86	16,431	54,830
179.87	16,447	54,994
179.88	16,464	55,159
179.89	16,481	55,323
179.90	16,498	55,488
179.91	16,515	55,653
179.92	16,532	55,818
179.93	16,549	55,984
179.94	16,566	56,149
179.95	16,583	56,315
179.96	16,599	56,481
179.97	16,616	56,647
179.98	16,633	56,813
179.99	16,650	56,980
180.00	**16,667**	**57,146**

Summary for Pond B-31: Basin #31

Inflow Area = 0.923 ac, 77.68% Impervious, Inflow Depth = 10.30" for Future 100 yr event
Inflow = 9.12 cfs @ 12.17 hrs, Volume= 0.792 af
Outflow = 9.01 cfs @ 12.19 hrs, Volume= 0.777 af, Atten= 1%, Lag= 1.1 min
Primary = 9.01 cfs @ 12.19 hrs, Volume= 0.777 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 195.59' @ 12.19 hrs Surf.Area= 3,676 sf Storage= 7,872 cf

Plug-Flow detention time= 172.9 min calculated for 0.776 af (98% of inflow)
Center-of-Mass det. time= 161.0 min (914.2 - 753.2)

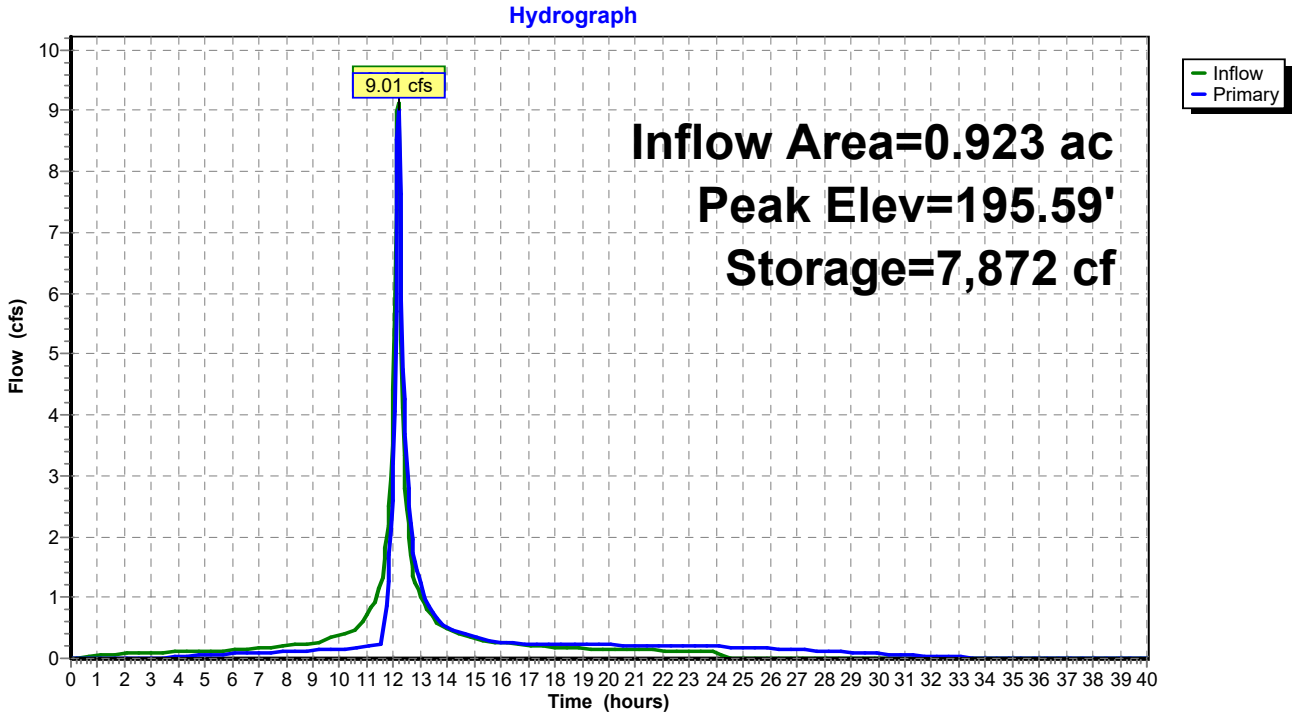
Volume	Invert	Avail.Storage	Storage Description
#1	192.30'	9,453 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.30	0	0	0
193.00	1,944	680	680
194.00	2,566	2,255	2,935
195.00	3,245	2,906	5,841
196.00	3,980	3,613	9,453

Device	Routing	Invert	Outlet Devices
#1	Primary	191.65'	**18.0" Round Culvert** L= 126.0' Ke= 0.500 Inlet / Outlet Invert= 191.65' / 188.00' S= 0.0290 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.97'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	195.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	195.50'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=8.80 cfs @ 12.19 hrs HW=195.58' (Free Discharge)
- **1=Culvert** (Passes 5.93 cfs of 15.18 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.26 cfs @ 7.63 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 5.67 cfs @ 2.50 fps)
- **4=Broad-Crested Rectangular Weir** (Weir Controls 2.87 cfs @ 0.68 fps)

Pond B-31: Basin #31



Stage-Discharge for Pond B-31: Basin #31

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.30	0.00	192.82	0.00	193.34	0.08	193.86	0.15
192.31	0.00	192.83	0.00	193.35	0.09	193.87	0.15
192.32	0.00	192.84	0.00	193.36	0.09	193.88	0.15
192.33	0.00	192.85	0.00	193.37	0.09	193.89	0.15
192.34	0.00	192.86	0.00	193.38	0.09	193.90	0.15
192.35	0.00	192.87	0.00	193.39	0.09	193.91	0.15
192.36	0.00	192.88	0.00	193.40	0.09	193.92	0.15
192.37	0.00	192.89	0.00	193.41	0.10	193.93	0.15
192.38	0.00	192.90	0.00	193.42	0.10	193.94	0.15
192.39	0.00	192.91	0.00	193.43	0.10	193.95	0.15
192.40	0.00	192.92	0.00	193.44	0.10	193.96	0.15
192.41	0.00	192.93	0.00	193.45	0.10	193.97	0.16
192.42	0.00	192.94	0.00	193.46	0.10	193.98	0.16
192.43	0.00	192.95	0.00	193.47	0.10	193.99	0.16
192.44	0.00	192.96	0.00	193.48	0.10	194.00	0.16
192.45	0.00	192.97	0.00	193.49	0.11	194.01	0.16
192.46	0.00	192.98	0.00	193.50	0.11	194.02	0.16
192.47	0.00	192.99	0.00	193.51	0.11	194.03	0.16
192.48	0.00	193.00	0.00	193.52	0.11	194.04	0.16
192.49	0.00	193.01	0.00	193.53	0.11	194.05	0.16
192.50	0.00	193.02	0.00	193.54	0.11	194.06	0.16
192.51	0.00	193.03	0.01	193.55	0.11	194.07	0.16
192.52	0.00	193.04	0.01	193.56	0.11	194.08	0.16
192.53	0.00	193.05	0.01	193.57	0.12	194.09	0.17
192.54	0.00	193.06	0.01	193.58	0.12	194.10	0.17
192.55	0.00	193.07	0.02	193.59	0.12	194.11	0.17
192.56	0.00	193.08	0.02	193.60	0.12	194.12	0.17
192.57	0.00	193.09	0.02	193.61	0.12	194.13	0.17
192.58	0.00	193.10	0.03	193.62	0.12	194.14	0.17
192.59	0.00	193.11	0.03	193.63	0.12	194.15	0.17
192.60	0.00	193.12	0.03	193.64	0.12	194.16	0.17
192.61	0.00	193.13	0.04	193.65	0.12	194.17	0.17
192.62	0.00	193.14	0.04	193.66	0.13	194.18	0.17
192.63	0.00	193.15	0.05	193.67	0.13	194.19	0.17
192.64	0.00	193.16	0.05	193.68	0.13	194.20	0.17
192.65	0.00	193.17	0.05	193.69	0.13	194.21	0.17
192.66	0.00	193.18	0.05	193.70	0.13	194.22	0.18
192.67	0.00	193.19	0.06	193.71	0.13	194.23	0.18
192.68	0.00	193.20	0.06	193.72	0.13	194.24	0.18
192.69	0.00	193.21	0.06	193.73	0.13	194.25	0.18
192.70	0.00	193.22	0.06	193.74	0.13	194.26	0.18
192.71	0.00	193.23	0.06	193.75	0.13	194.27	0.18
192.72	0.00	193.24	0.07	193.76	0.14	194.28	0.18
192.73	0.00	193.25	0.07	193.77	0.14	194.29	0.18
192.74	0.00	193.26	0.07	193.78	0.14	194.30	0.18
192.75	0.00	193.27	0.07	193.79	0.14	194.31	0.18
192.76	0.00	193.28	0.07	193.80	0.14	194.32	0.18
192.77	0.00	193.29	0.08	193.81	0.14	194.33	0.18
192.78	0.00	193.30	0.08	193.82	0.14	194.34	0.18
192.79	0.00	193.31	0.08	193.83	0.14	194.35	0.19
192.80	0.00	193.32	0.08	193.84	0.14	194.36	0.19
192.81	0.00	193.33	0.08	193.85	0.14	194.37	0.19

Stage-Discharge for Pond B-31: Basin #31 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.38	0.19	194.90	0.22	195.42	3.74	195.94	49.49
194.39	0.19	194.91	0.22	195.43	3.86	195.95	51.13
194.40	0.19	194.92	0.22	195.44	3.99	195.96	52.81
194.41	0.19	194.93	0.22	195.45	4.11	195.97	54.51
194.42	0.19	194.94	0.22	195.46	4.24	195.98	56.24
194.43	0.19	194.95	0.22	195.47	4.37	195.99	57.99
194.44	0.19	194.96	0.23	195.48	4.50	196.00	**59.77**
194.45	0.19	194.97	0.23	195.49	4.63		
194.46	0.19	194.98	0.23	195.50	4.76		
194.47	0.19	194.99	0.23	195.51	5.02		
194.48	0.19	195.00	0.23	195.52	5.37		
194.49	0.20	195.01	0.24	195.53	5.78		
194.50	0.20	195.02	0.27	195.54	6.25		
194.51	0.20	195.03	0.30	195.55	6.76		
194.52	0.20	195.04	0.33	195.56	7.31		
194.53	0.20	195.05	0.38	195.57	7.90		
194.54	0.20	195.06	0.42	195.58	8.53		
194.55	0.20	195.07	0.47	195.59	9.19		
194.56	0.20	195.08	0.53	195.60	9.88		
194.57	0.20	195.09	0.58	195.61	10.59		
194.58	0.20	195.10	0.65	195.62	11.34		
194.59	0.20	195.11	0.71	195.63	12.12		
194.60	0.20	195.12	0.78	195.64	12.92		
194.61	0.20	195.13	0.84	195.65	13.74		
194.62	0.20	195.14	0.92	195.66	14.59		
194.63	0.20	195.15	0.99	195.67	15.47		
194.64	0.21	195.16	1.07	195.68	16.36		
194.65	0.21	195.17	1.15	195.69	17.28		
194.66	0.21	195.18	1.23	195.70	18.22		
194.67	0.21	195.19	1.31	195.71	19.23		
194.68	0.21	195.20	1.40	195.72	20.25		
194.69	0.21	195.21	1.49	195.73	21.31		
194.70	0.21	195.22	1.58	195.74	22.39		
194.71	0.21	195.23	1.67	195.75	23.50		
194.72	0.21	195.24	1.76	195.76	24.63		
194.73	0.21	195.25	1.86	195.77	25.79		
194.74	0.21	195.26	1.95	195.78	26.98		
194.75	0.21	195.27	2.05	195.79	28.19		
194.76	0.21	195.28	2.15	195.80	29.42		
194.77	0.21	195.29	2.26	195.81	30.69		
194.78	0.21	195.30	2.36	195.82	31.97		
194.79	0.22	195.31	2.47	195.83	33.29		
194.80	0.22	195.32	2.58	195.84	34.62		
194.81	0.22	195.33	2.69	195.85	35.98		
194.82	0.22	195.34	2.80	195.86	37.37		
194.83	0.22	195.35	2.91	195.87	38.78		
194.84	0.22	195.36	3.02	195.88	40.22		
194.85	0.22	195.37	3.14	195.89	41.68		
194.86	0.22	195.38	3.25	195.90	43.17		
194.87	0.22	195.39	3.37	195.91	44.71		
194.88	0.22	195.40	3.49	195.92	46.28		
194.89	0.22	195.41	3.61	195.93	47.87		

Stage-Area-Storage for Pond B-31: Basin #31

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.30	0	0
192.31	28	0
192.32	56	1
192.33	83	1
192.34	111	2
192.35	139	3
192.36	167	5
192.37	194	7
192.38	222	9
192.39	250	11
192.40	278	14
192.41	305	17
192.42	333	20
192.43	361	23
192.44	389	27
192.45	417	31
192.46	444	36
192.47	472	40
192.48	500	45
192.49	528	50
192.50	555	56
192.51	583	61
192.52	611	67
192.53	639	73
192.54	667	80
192.55	694	87
192.56	722	94
192.57	750	101
192.58	778	109
192.59	805	117
192.60	833	125
192.61	861	133
192.62	889	142
192.63	916	151
192.64	944	161
192.65	972	170
192.66	1,000	180
192.67	1,028	190
192.68	1,055	201
192.69	1,083	211
192.70	1,111	222
192.71	1,139	233
192.72	1,166	245
192.73	1,194	257
192.74	1,222	269
192.75	1,250	281
192.76	1,277	294
192.77	1,305	307
192.78	1,333	320
192.79	1,361	333
192.80	1,389	347
192.81	1,416	361
192.82	1,444	375
192.83	1,472	390
192.84	1,500	405
192.85	1,527	420
192.86	1,555	435
192.87	1,583	451
192.88	1,611	467
192.89	1,639	483
192.90	1,666	500
192.91	1,694	517
192.92	1,722	534
192.93	1,750	551
192.94	1,777	569
192.95	1,805	587
192.96	1,833	605
192.97	1,861	623
192.98	1,888	642
192.99	1,916	661
193.00	1,944	680
193.01	1,950	700
193.02	1,956	719
193.03	1,963	739
193.04	1,969	759
193.05	1,975	778
193.06	1,981	798
193.07	1,988	818
193.08	1,994	838
193.09	2,000	858
193.10	2,006	878
193.11	2,012	898
193.12	2,019	918
193.13	2,025	938
193.14	2,031	959
193.15	2,037	979
193.16	2,044	999
193.17	2,050	1,020
193.18	2,056	1,040
193.19	2,062	1,061
193.20	2,068	1,082
193.21	2,075	1,102
193.22	2,081	1,123
193.23	2,087	1,144
193.24	2,093	1,165
193.25	2,100	1,186
193.26	2,106	1,207
193.27	2,112	1,228
193.28	2,118	1,249
193.29	2,124	1,270
193.30	2,131	1,292
193.31	2,137	1,313
193.32	2,143	1,334
193.33	2,149	1,356

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.34	2,155	1,377	193.86	2,479	2,582
193.35	2,162	1,399	193.87	2,485	2,607
193.36	2,168	1,421	193.88	2,491	2,632
193.37	2,174	1,442	193.89	2,498	2,657
193.38	2,180	1,464	193.90	2,504	2,682
193.39	2,187	1,486	193.91	2,510	2,707
193.40	2,193	1,508	193.92	2,516	2,732
193.41	2,199	1,530	193.93	2,522	2,757
193.42	2,205	1,552	193.94	2,529	2,783
193.43	2,211	1,574	193.95	2,535	2,808
193.44	2,218	1,596	193.96	2,541	2,833
193.45	2,224	1,618	193.97	2,547	2,859
193.46	2,230	1,640	193.98	2,554	2,884
193.47	2,236	1,663	193.99	2,560	2,910
193.48	2,243	1,685	194.00	2,566	2,935
193.49	2,249	1,708	194.01	2,573	2,961
193.50	2,255	1,730	194.02	2,580	2,987
193.51	2,261	1,753	194.03	2,586	3,013
193.52	2,267	1,775	194.04	2,593	3,039
193.53	2,274	1,798	194.05	2,600	3,065
193.54	2,280	1,821	194.06	2,607	3,091
193.55	2,286	1,844	194.07	2,614	3,117
193.56	2,292	1,867	194.08	2,620	3,143
193.57	2,299	1,890	194.09	2,627	3,169
193.58	2,305	1,913	194.10	2,634	3,195
193.59	2,311	1,936	194.11	2,641	3,222
193.60	2,317	1,959	194.12	2,647	3,248
193.61	2,323	1,982	194.13	2,654	3,275
193.62	2,330	2,005	194.14	2,661	3,301
193.63	2,336	2,029	194.15	2,668	3,328
193.64	2,342	2,052	194.16	2,675	3,355
193.65	2,348	2,075	194.17	2,681	3,381
193.66	2,355	2,099	194.18	2,688	3,408
193.67	2,361	2,122	194.19	2,695	3,435
193.68	2,367	2,146	194.20	2,702	3,462
193.69	2,373	2,170	194.21	2,709	3,489
193.70	2,379	2,194	194.22	2,715	3,516
193.71	2,386	2,217	194.23	2,722	3,544
193.72	2,392	2,241	194.24	2,729	3,571
193.73	2,398	2,265	194.25	2,736	3,598
193.74	2,404	2,289	194.26	2,743	3,626
193.75	2,411	2,313	194.27	2,749	3,653
193.76	2,417	2,337	194.28	2,756	3,680
193.77	2,423	2,362	194.29	2,763	3,708
193.78	2,429	2,386	194.30	2,770	3,736
193.79	2,435	2,410	194.31	2,776	3,763
193.80	2,442	2,435	194.32	2,783	3,791
193.81	2,448	2,459	194.33	2,790	3,819
193.82	2,454	2,484	194.34	2,797	3,847
193.83	2,460	2,508	194.35	2,804	3,875
193.84	2,466	2,533	194.36	2,810	3,903
193.85	2,473	2,557	194.37	2,817	3,931

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.38	2,824	3,960
194.39	2,831	3,988
194.40	2,838	4,016
194.41	2,844	4,045
194.42	2,851	4,073
194.43	2,858	4,102
194.44	2,865	4,130
194.45	2,872	4,159
194.46	2,878	4,188
194.47	2,885	4,216
194.48	2,892	4,245
194.49	2,899	4,274
194.50	2,906	4,303
194.51	2,912	4,332
194.52	2,919	4,362
194.53	2,926	4,391
194.54	2,933	4,420
194.55	2,939	4,449
194.56	2,946	4,479
194.57	2,953	4,508
194.58	2,960	4,538
194.59	2,967	4,568
194.60	2,973	4,597
194.61	2,980	4,627
194.62	2,987	4,657
194.63	2,994	4,687
194.64	3,001	4,717
194.65	3,007	4,747
194.66	3,014	4,777
194.67	3,021	4,807
194.68	3,028	4,837
194.69	3,035	4,868
194.70	3,041	4,898
194.71	3,048	4,928
194.72	3,055	4,959
194.73	3,062	4,989
194.74	3,068	5,020
194.75	3,075	5,051
194.76	3,082	5,082
194.77	3,089	5,113
194.78	3,096	5,143
194.79	3,102	5,174
194.80	3,109	5,205
194.81	3,116	5,237
194.82	3,123	5,268
194.83	3,130	5,299
194.84	3,136	5,330
194.85	3,143	5,362
194.86	3,150	5,393
194.87	3,157	5,425
194.88	3,164	5,456
194.89	3,170	5,488
194.90	3,177	5,520
194.91	3,184	5,552
194.92	3,191	5,583
194.93	3,197	5,615
194.94	3,204	5,647
194.95	3,211	5,679
194.96	3,218	5,712
194.97	3,225	5,744
194.98	3,231	5,776
194.99	3,238	5,808
195.00	3,245	5,841
195.01	3,252	5,873
195.02	3,260	5,906
195.03	3,267	5,939
195.04	3,274	5,971
195.05	3,282	6,004
195.06	3,289	6,037
195.07	3,296	6,070
195.08	3,304	6,103
195.09	3,311	6,136
195.10	3,319	6,169
195.11	3,326	6,202
195.12	3,333	6,236
195.13	3,341	6,269
195.14	3,348	6,302
195.15	3,355	6,336
195.16	3,363	6,370
195.17	3,370	6,403
195.18	3,377	6,437
195.19	3,385	6,471
195.20	3,392	6,505
195.21	3,399	6,539
195.22	3,407	6,573
195.23	3,414	6,607
195.24	3,421	6,641
195.25	3,429	6,675
195.26	3,436	6,709
195.27	3,443	6,744
195.28	3,451	6,778
195.29	3,458	6,813
195.30	3,466	6,847
195.31	3,473	6,882
195.32	3,480	6,917
195.33	3,488	6,952
195.34	3,495	6,987
195.35	3,502	7,022
195.36	3,510	7,057
195.37	3,517	7,092
195.38	3,524	7,127
195.39	3,532	7,162
195.40	3,539	7,198
195.41	3,546	7,233

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.42	3,554	7,269
195.43	3,561	7,304
195.44	3,568	7,340
195.45	3,576	7,376
195.46	3,583	7,411
195.47	3,590	7,447
195.48	3,598	7,483
195.49	3,605	7,519
195.50	3,613	7,555
195.51	3,620	7,591
195.52	3,627	7,628
195.53	3,635	7,664
195.54	3,642	7,700
195.55	3,649	7,737
195.56	3,657	7,773
195.57	3,664	7,810
195.58	3,671	7,847
195.59	3,679	7,883
195.60	3,686	7,920
195.61	3,693	7,957
195.62	3,701	7,994
195.63	3,708	8,031
195.64	3,715	8,068
195.65	3,723	8,105
195.66	3,730	8,143
195.67	3,737	8,180
195.68	3,745	8,217
195.69	3,752	8,255
195.70	3,760	8,292
195.71	3,767	8,330
195.72	3,774	8,368
195.73	3,782	8,406
195.74	3,789	8,443
195.75	3,796	8,481
195.76	3,804	8,519
195.77	3,811	8,557
195.78	3,818	8,596
195.79	3,826	8,634
195.80	3,833	8,672
195.81	3,840	8,710
195.82	3,848	8,749
195.83	3,855	8,787
195.84	3,862	8,826
195.85	3,870	8,865
195.86	3,877	8,903
195.87	3,884	8,942
195.88	3,892	8,981
195.89	3,899	9,020
195.90	3,907	9,059
195.91	3,914	9,098
195.92	3,921	9,137
195.93	3,929	9,177
195.94	3,936	9,216
195.95	3,943	9,255
195.96	3,951	9,295
195.97	3,958	9,334
195.98	3,965	9,374
195.99	3,973	9,414
196.00	**3,980**	**9,453**

Summary for Pond B-32: Basin #32

Inflow Area = 1.346 ac, 28.68% Impervious, Inflow Depth = 8.78" for Future 100 yr event
Inflow = 12.15 cfs @ 12.17 hrs, Volume= 0.985 af
Outflow = 7.80 cfs @ 12.29 hrs, Volume= 0.946 af, Atten= 36%, Lag= 7.0 min
Primary = 7.80 cfs @ 12.29 hrs, Volume= 0.946 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 196.98' @ 12.29 hrs Surf.Area= 4,334 sf Storage= 7,074 cf

Plug-Flow detention time= 56.5 min calculated for 0.946 af (96% of inflow)
Center-of-Mass det. time= 32.4 min (817.5 - 785.1)

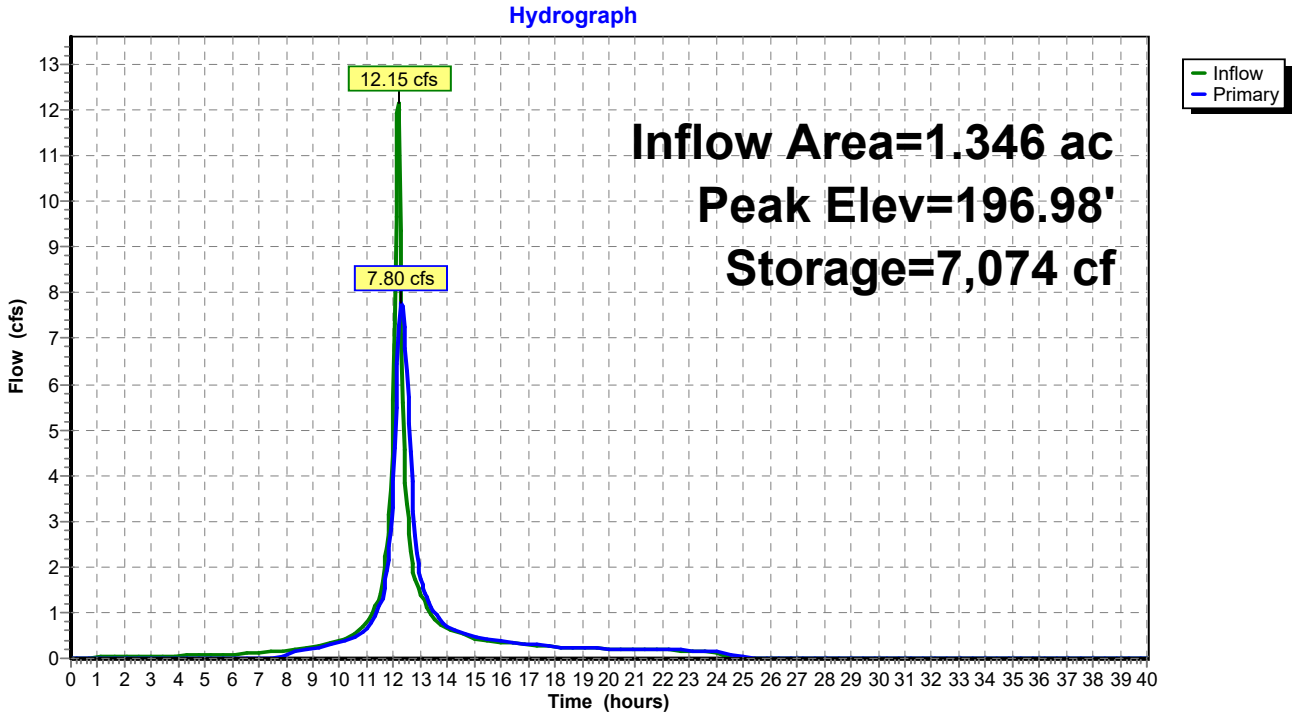
Volume	Invert	Avail.Storage	Storage Description
#1	195.00'	11,936 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
195.00	2,830	0	0
196.00	3,569	3,200	3,200
197.00	4,349	3,959	7,159
198.00	5,206	4,778	11,936

Device	Routing	Invert	Outlet Devices
#1	Primary	195.00'	**24.0" Round Culvert** L= 43.0' Ke= 0.500 Inlet / Outlet Invert= 195.00' / 193.94' S= 0.0247 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	195.56'	**36.0" W x 6.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	197.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=7.78 cfs @ 12.29 hrs HW=196.97' (Free Discharge)
- **1=Culvert** (Passes 7.78 cfs of 14.99 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 7.78 cfs @ 5.18 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-32: Basin #32



Stage-Discharge for Pond B-32: Basin #32

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.00	0.00	195.52	0.00	196.04	3.20	196.56	6.23
195.01	0.00	195.53	0.00	196.05	3.30	196.57	6.27
195.02	0.00	195.54	0.00	196.06	3.40	196.58	6.31
195.03	0.00	195.55	0.00	196.07	3.50	196.59	6.35
195.04	0.00	195.56	0.00	196.08	3.58	196.60	6.39
195.05	0.00	195.57	0.01	196.09	3.67	196.61	6.43
195.06	0.00	195.58	0.03	196.10	3.74	196.62	6.47
195.07	0.00	195.59	0.05	196.11	3.82	196.63	6.51
195.08	0.00	195.60	0.08	196.12	3.89	196.64	6.55
195.09	0.00	195.61	0.11	196.13	3.97	196.65	6.59
195.10	0.00	195.62	0.14	196.14	4.04	196.66	6.63
195.11	0.00	195.63	0.18	196.15	4.10	196.67	6.67
195.12	0.00	195.64	0.22	196.16	4.17	196.68	6.71
195.13	0.00	195.65	0.26	196.17	4.24	196.69	6.75
195.14	0.00	195.66	0.30	196.18	4.30	196.70	6.79
195.15	0.00	195.67	0.35	196.19	4.36	196.71	6.83
195.16	0.00	195.68	0.40	196.20	4.43	196.72	6.87
195.17	0.00	195.69	0.45	196.21	4.49	196.73	6.91
195.18	0.00	195.70	0.50	196.22	4.55	196.74	6.94
195.19	0.00	195.71	0.56	196.23	4.61	196.75	6.98
195.20	0.00	195.72	0.62	196.24	4.66	196.76	7.02
195.21	0.00	195.73	0.67	196.25	4.72	196.77	7.06
195.22	0.00	195.74	0.74	196.26	4.78	196.78	7.09
195.23	0.00	195.75	0.80	196.27	4.83	196.79	7.13
195.24	0.00	195.76	0.86	196.28	4.89	196.80	7.17
195.25	0.00	195.77	0.93	196.29	4.94	196.81	7.20
195.26	0.00	195.78	0.99	196.30	5.00	196.82	7.24
195.27	0.00	195.79	1.06	196.31	5.05	196.83	7.28
195.28	0.00	195.80	1.13	196.32	5.10	196.84	7.31
195.29	0.00	195.81	1.20	196.33	5.16	196.85	7.35
195.30	0.00	195.82	1.28	196.34	5.21	196.86	7.38
195.31	0.00	195.83	1.35	196.35	5.26	196.87	7.42
195.32	0.00	195.84	1.43	196.36	5.31	196.88	7.45
195.33	0.00	195.85	1.50	196.37	5.36	196.89	7.49
195.34	0.00	195.86	1.58	196.38	5.41	196.90	7.52
195.35	0.00	195.87	1.66	196.39	5.46	196.91	7.56
195.36	0.00	195.88	1.74	196.40	5.50	196.92	7.59
195.37	0.00	195.89	1.83	196.41	5.55	196.93	7.63
195.38	0.00	195.90	1.91	196.42	5.60	196.94	7.66
195.39	0.00	195.91	1.99	196.43	5.65	196.95	7.70
195.40	0.00	195.92	2.08	196.44	5.69	196.96	7.73
195.41	0.00	195.93	2.17	196.45	5.74	196.97	7.76
195.42	0.00	195.94	2.26	196.46	5.79	196.98	7.80
195.43	0.00	195.95	2.35	196.47	5.83	196.99	7.83
195.44	0.00	195.96	2.44	196.48	5.88	197.00	7.86
195.45	0.00	195.97	2.53	196.49	5.92	197.01	7.91
195.46	0.00	195.98	2.62	196.50	5.97	197.02	7.97
195.47	0.00	195.99	2.72	196.51	6.01	197.03	8.03
195.48	0.00	196.00	2.81	196.52	6.05	197.04	8.10
195.49	0.00	196.01	2.91	196.53	6.10	197.05	8.17
195.50	0.00	196.02	3.00	196.54	6.14	197.06	8.25
195.51	0.00	196.03	3.10	196.55	6.18	197.07	8.34

Stage-Discharge for Pond B-32: Basin #32 (continued)

Elevation (feet)	Primary (cfs)
197.08	8.42
197.09	8.51
197.10	8.60
197.11	8.70
197.12	8.79
197.13	8.89
197.14	9.00
197.15	9.10
197.16	9.21
197.17	9.32
197.18	9.43
197.19	9.55
197.20	9.66
197.21	9.78
197.22	9.90
197.23	10.02
197.24	10.15
197.25	10.27
197.26	10.40
197.27	10.53
197.28	10.66
197.29	10.79
197.30	10.92
197.31	11.06
197.32	11.19
197.33	11.33
197.34	11.47
197.35	11.61
197.36	11.76
197.37	11.90
197.38	12.05
197.39	12.19
197.40	12.34
197.41	12.49
197.42	12.64
197.43	12.79
197.44	12.95
197.45	13.10
197.46	13.26
197.47	13.41
197.48	13.57
197.49	13.73
197.50	13.89
197.51	14.05
197.52	14.21
197.53	14.38
197.54	14.54
197.55	14.71
197.56	14.87
197.57	15.04
197.58	15.21
197.59	15.38
197.60	15.55
197.61	15.72
197.62	15.90
197.63	16.07
197.64	16.25
197.65	16.42
197.66	16.60
197.67	16.78
197.68	16.95
197.69	17.13
197.70	17.31
197.71	17.50
197.72	17.68
197.73	17.86
197.74	18.05
197.75	18.23
197.76	18.42
197.77	18.60
197.78	18.79
197.79	18.98
197.80	19.17
197.81	19.36
197.82	19.55
197.83	19.74
197.84	19.93
197.85	20.12
197.86	20.32
197.87	20.51
197.88	20.71
197.89	20.80
197.90	20.85
197.91	20.91
197.92	20.96
197.93	21.01
197.94	21.07
197.95	21.12
197.96	21.29
197.97	21.56
197.98	21.89
197.99	22.28
198.00	**22.70**

Stage-Area-Storage for Pond B-32: Basin #32

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.00	2,830	0	195.52	3,214	1,572
195.01	2,837	28	195.53	3,222	1,604
195.02	2,845	57	195.54	3,229	1,636
195.03	2,852	85	195.55	3,236	1,668
195.04	2,860	114	195.56	3,244	1,701
195.05	2,867	142	195.57	3,251	1,733
195.06	2,874	171	195.58	3,259	1,766
195.07	2,882	200	195.59	3,266	1,798
195.08	2,889	229	195.60	3,273	1,831
195.09	2,897	258	195.61	3,281	1,864
195.10	2,904	287	195.62	3,288	1,897
195.11	2,911	316	195.63	3,296	1,930
195.12	2,919	345	195.64	3,303	1,963
195.13	2,926	374	195.65	3,310	1,996
195.14	2,933	403	195.66	3,318	2,029
195.15	2,941	433	195.67	3,325	2,062
195.16	2,948	462	195.68	3,333	2,095
195.17	2,956	492	195.69	3,340	2,129
195.18	2,963	521	195.70	3,347	2,162
195.19	2,970	551	195.71	3,355	2,196
195.20	2,978	581	195.72	3,362	2,229
195.21	2,985	611	195.73	3,369	2,263
195.22	2,993	640	195.74	3,377	2,297
195.23	3,000	670	195.75	3,384	2,330
195.24	3,007	700	195.76	3,392	2,364
195.25	3,015	731	195.77	3,399	2,398
195.26	3,022	761	195.78	3,406	2,432
195.27	3,030	791	195.79	3,414	2,466
195.28	3,037	821	195.80	3,421	2,500
195.29	3,044	852	195.81	3,429	2,535
195.30	3,052	882	195.82	3,436	2,569
195.31	3,059	913	195.83	3,443	2,603
195.32	3,066	943	195.84	3,451	2,638
195.33	3,074	974	195.85	3,458	2,672
195.34	3,081	1,005	195.86	3,466	2,707
195.35	3,089	1,036	195.87	3,473	2,742
195.36	3,096	1,067	195.88	3,480	2,777
195.37	3,103	1,098	195.89	3,488	2,811
195.38	3,111	1,129	195.90	3,495	2,846
195.39	3,118	1,160	195.91	3,502	2,881
195.40	3,126	1,191	195.92	3,510	2,916
195.41	3,133	1,222	195.93	3,517	2,951
195.42	3,140	1,254	195.94	3,525	2,987
195.43	3,148	1,285	195.95	3,532	3,022
195.44	3,155	1,317	195.96	3,539	3,057
195.45	3,163	1,348	195.97	3,547	3,093
195.46	3,170	1,380	195.98	3,554	3,128
195.47	3,177	1,412	195.99	3,562	3,164
195.48	3,185	1,444	196.00	3,569	3,200
195.49	3,192	1,475	196.01	3,577	3,235
195.50	3,200	1,507	196.02	3,585	3,271
195.51	3,207	1,539	196.03	3,592	3,307

Stage-Area-Storage for Pond B-32: Basin #32 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.04	3,600	3,343
196.05	3,608	3,379
196.06	3,616	3,415
196.07	3,624	3,451
196.08	3,631	3,488
196.09	3,639	3,524
196.10	3,647	3,560
196.11	3,655	3,597
196.12	3,663	3,633
196.13	3,670	3,670
196.14	3,678	3,707
196.15	3,686	3,744
196.16	3,694	3,781
196.17	3,702	3,818
196.18	3,709	3,855
196.19	3,717	3,892
196.20	3,725	3,929
196.21	3,733	3,966
196.22	3,741	4,004
196.23	3,748	4,041
196.24	3,756	4,079
196.25	3,764	4,116
196.26	3,772	4,154
196.27	3,780	4,192
196.28	3,787	4,229
196.29	3,795	4,267
196.30	3,803	4,305
196.31	3,811	4,343
196.32	3,819	4,382
196.33	3,826	4,420
196.34	3,834	4,458
196.35	3,842	4,496
196.36	3,850	4,535
196.37	3,858	4,573
196.38	3,865	4,612
196.39	3,873	4,651
196.40	3,881	4,690
196.41	3,889	4,728
196.42	3,897	4,767
196.43	3,904	4,806
196.44	3,912	4,845
196.45	3,920	4,885
196.46	3,928	4,924
196.47	3,936	4,963
196.48	3,943	5,002
196.49	3,951	5,042
196.50	3,959	5,082
196.51	3,967	5,121
196.52	3,975	5,161
196.53	3,982	5,201
196.54	3,990	5,240
196.55	3,998	5,280
196.56	4,006	5,320
196.57	4,014	5,361
196.58	4,021	5,401
196.59	4,029	5,441
196.60	4,037	5,481
196.61	4,045	5,522
196.62	4,053	5,562
196.63	4,060	5,603
196.64	4,068	5,643
196.65	4,076	5,684
196.66	4,084	5,725
196.67	4,092	5,766
196.68	4,099	5,807
196.69	4,107	5,848
196.70	4,115	5,889
196.71	4,123	5,930
196.72	4,131	5,971
196.73	4,138	6,013
196.74	4,146	6,054
196.75	4,154	6,096
196.76	4,162	6,137
196.77	4,170	6,179
196.78	4,177	6,221
196.79	4,185	6,262
196.80	4,193	6,304
196.81	4,201	6,346
196.82	4,209	6,388
196.83	4,216	6,430
196.84	4,224	6,473
196.85	4,232	6,515
196.86	4,240	6,557
196.87	4,248	6,600
196.88	4,255	6,642
196.89	4,263	6,685
196.90	4,271	6,728
196.91	4,279	6,770
196.92	4,287	6,813
196.93	4,294	6,856
196.94	4,302	6,899
196.95	4,310	6,942
196.96	4,318	6,985
196.97	4,326	7,028
196.98	4,333	7,072
196.99	4,341	7,115
197.00	4,349	7,159
197.01	4,358	7,202
197.02	4,366	7,246
197.03	4,375	7,289
197.04	4,383	7,333
197.05	4,392	7,377
197.06	4,400	7,421
197.07	4,409	7,465

Stage-Area-Storage for Pond B-32: Basin #32 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.08	4,418	7,509
197.09	4,426	7,553
197.10	4,435	7,598
197.11	4,443	7,642
197.12	4,452	7,687
197.13	4,460	7,731
197.14	4,469	7,776
197.15	4,478	7,820
197.16	4,486	7,865
197.17	4,495	7,910
197.18	4,503	7,955
197.19	4,512	8,000
197.20	4,520	8,045
197.21	4,529	8,091
197.22	4,538	8,136
197.23	4,546	8,181
197.24	4,555	8,227
197.25	4,563	8,273
197.26	4,572	8,318
197.27	4,580	8,364
197.28	4,589	8,410
197.29	4,598	8,456
197.30	4,606	8,502
197.31	4,615	8,548
197.32	4,623	8,594
197.33	4,632	8,640
197.34	4,640	8,687
197.35	4,649	8,733
197.36	4,658	8,780
197.37	4,666	8,826
197.38	4,675	8,873
197.39	4,683	8,920
197.40	4,692	8,967
197.41	4,700	9,014
197.42	4,709	9,061
197.43	4,718	9,108
197.44	4,726	9,155
197.45	4,735	9,202
197.46	4,743	9,250
197.47	4,752	9,297
197.48	4,760	9,345
197.49	4,769	9,392
197.50	4,778	9,440
197.51	4,786	9,488
197.52	4,795	9,536
197.53	4,803	9,584
197.54	4,812	9,632
197.55	4,820	9,680
197.56	4,829	9,728
197.57	4,837	9,777
197.58	4,846	9,825
197.59	4,855	9,874
197.60	4,863	9,922
197.61	4,872	9,971
197.62	4,880	10,020
197.63	4,889	10,068
197.64	4,897	10,117
197.65	4,906	10,166
197.66	4,915	10,215
197.67	4,923	10,265
197.68	4,932	10,314
197.69	4,940	10,363
197.70	4,949	10,413
197.71	4,957	10,462
197.72	4,966	10,512
197.73	4,975	10,562
197.74	4,983	10,611
197.75	4,992	10,661
197.76	5,000	10,711
197.77	5,009	10,761
197.78	5,017	10,811
197.79	5,026	10,862
197.80	5,035	10,912
197.81	5,043	10,962
197.82	5,052	11,013
197.83	5,060	11,063
197.84	5,069	11,114
197.85	5,077	11,165
197.86	5,086	11,216
197.87	5,095	11,266
197.88	5,103	11,317
197.89	5,112	11,369
197.90	5,120	11,420
197.91	5,129	11,471
197.92	5,137	11,522
197.93	5,146	11,574
197.94	5,155	11,625
197.95	5,163	11,677
197.96	5,172	11,728
197.97	5,180	11,780
197.98	5,189	11,832
197.99	5,197	11,884
198.00	**5,206**	**11,936**

Summary for Pond B-33: Basin #33

Inflow Area = 1.761 ac, 50.99% Impervious, Inflow Depth = 9.47" for Future 100 yr event
Inflow = 16.58 cfs @ 12.17 hrs, Volume= 1.390 af
Outflow = 13.75 cfs @ 12.23 hrs, Volume= 1.302 af, Atten= 17%, Lag= 3.7 min
Primary = 13.75 cfs @ 12.23 hrs, Volume= 1.302 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 187.34' @ 12.24 hrs Surf.Area= 5,339 sf Storage= 13,771 cf

Plug-Flow detention time= 168.7 min calculated for 1.301 af (94% of inflow)
Center-of-Mass det. time= 133.8 min (903.1 - 769.3)

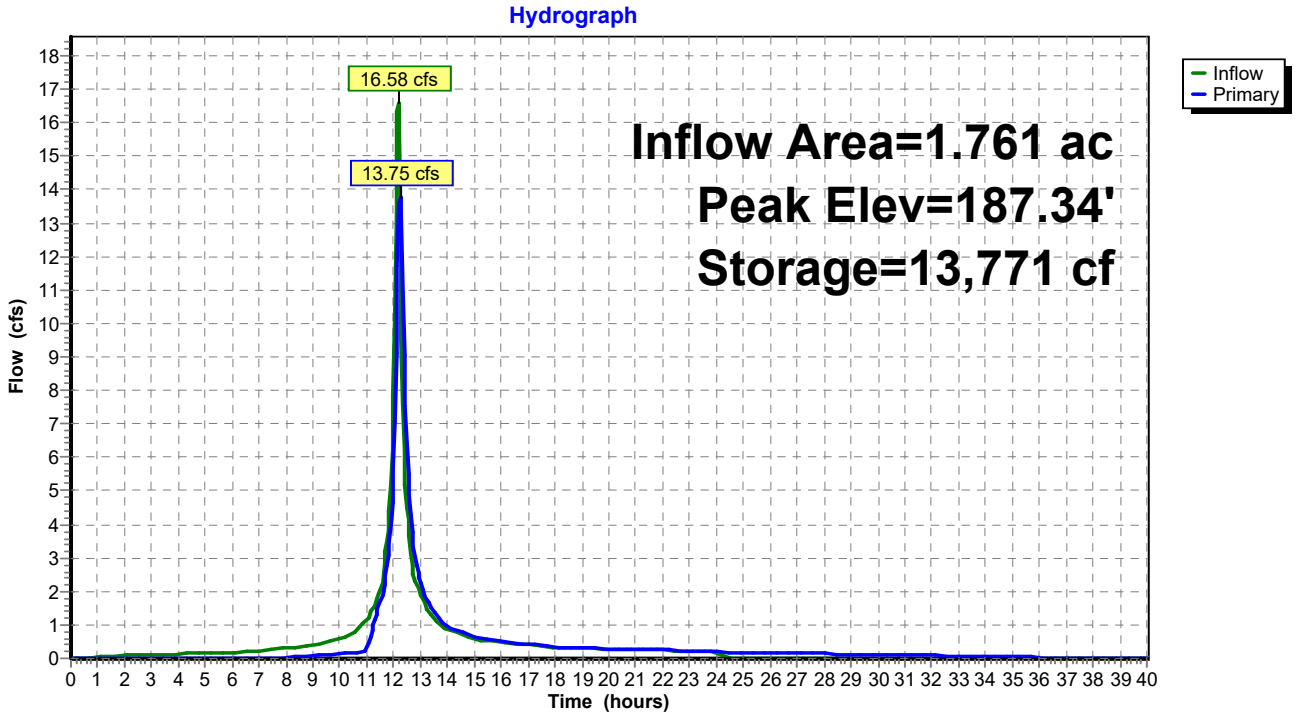
Volume	Invert	Avail.Storage	Storage Description
#1	183.30'	17,481 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
183.30	0	0	0
184.00	2,481	868	868
185.00	3,268	2,875	3,743
186.00	4,111	3,690	7,432
187.00	5,010	4,561	11,993
188.00	5,966	5,488	17,481

Device	Routing	Invert	Outlet Devices
#1	Primary	184.00'	**18.0" Round Culvert** L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 184.00' / 182.00' S= 0.0192 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	184.96'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	186.25'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	187.75'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=13.67 cfs @ 12.23 hrs HW=187.33' (Free Discharge)
- **1=Culvert** (Inlet Controls 13.67 cfs @ 7.74 fps)
  - **2=Orifice/Grate** (Passes < 0.25 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 13.92 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-33: Basin #33



Stage-Discharge for Pond B-33: Basin #33

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.30	0.00	183.82	0.00	184.34	0.00	184.86	0.00
183.31	0.00	183.83	0.00	184.35	0.00	184.87	0.00
183.32	0.00	183.84	0.00	184.36	0.00	184.88	0.00
183.33	0.00	183.85	0.00	184.37	0.00	184.89	0.00
183.34	0.00	183.86	0.00	184.38	0.00	184.90	0.00
183.35	0.00	183.87	0.00	184.39	0.00	184.91	0.00
183.36	0.00	183.88	0.00	184.40	0.00	184.92	0.00
183.37	0.00	183.89	0.00	184.41	0.00	184.93	0.00
183.38	0.00	183.90	0.00	184.42	0.00	184.94	0.00
183.39	0.00	183.91	0.00	184.43	0.00	184.95	0.00
183.40	0.00	183.92	0.00	184.44	0.00	184.96	0.00
183.41	0.00	183.93	0.00	184.45	0.00	184.97	0.00
183.42	0.00	183.94	0.00	184.46	0.00	184.98	0.00
183.43	0.00	183.95	0.00	184.47	0.00	184.99	0.00
183.44	0.00	183.96	0.00	184.48	0.00	185.00	0.00
183.45	0.00	183.97	0.00	184.49	0.00	185.01	0.00
183.46	0.00	183.98	0.00	184.50	0.00	185.02	0.01
183.47	0.00	183.99	0.00	184.51	0.00	185.03	0.01
183.48	0.00	184.00	0.00	184.52	0.00	185.04	0.01
183.49	0.00	184.01	0.00	184.53	0.00	185.05	0.01
183.50	0.00	184.02	0.00	184.54	0.00	185.06	0.02
183.51	0.00	184.03	0.00	184.55	0.00	185.07	0.02
183.52	0.00	184.04	0.00	184.56	0.00	185.08	0.02
183.53	0.00	184.05	0.00	184.57	0.00	185.09	0.03
183.54	0.00	184.06	0.00	184.58	0.00	185.10	0.03
183.55	0.00	184.07	0.00	184.59	0.00	185.11	0.03
183.56	0.00	184.08	0.00	184.60	0.00	185.12	0.04
183.57	0.00	184.09	0.00	184.61	0.00	185.13	0.04
183.58	0.00	184.10	0.00	184.62	0.00	185.14	0.05
183.59	0.00	184.11	0.00	184.63	0.00	185.15	0.05
183.60	0.00	184.12	0.00	184.64	0.00	185.16	0.05
183.61	0.00	184.13	0.00	184.65	0.00	185.17	0.05
183.62	0.00	184.14	0.00	184.66	0.00	185.18	0.06
183.63	0.00	184.15	0.00	184.67	0.00	185.19	0.06
183.64	0.00	184.16	0.00	184.68	0.00	185.20	0.06
183.65	0.00	184.17	0.00	184.69	0.00	185.21	0.06
183.66	0.00	184.18	0.00	184.70	0.00	185.22	0.06
183.67	0.00	184.19	0.00	184.71	0.00	185.23	0.07
183.68	0.00	184.20	0.00	184.72	0.00	185.24	0.07
183.69	0.00	184.21	0.00	184.73	0.00	185.25	0.07
183.70	0.00	184.22	0.00	184.74	0.00	185.26	0.07
183.71	0.00	184.23	0.00	184.75	0.00	185.27	0.07
183.72	0.00	184.24	0.00	184.76	0.00	185.28	0.08
183.73	0.00	184.25	0.00	184.77	0.00	185.29	0.08
183.74	0.00	184.26	0.00	184.78	0.00	185.30	0.08
183.75	0.00	184.27	0.00	184.79	0.00	185.31	0.08
183.76	0.00	184.28	0.00	184.80	0.00	185.32	0.08
183.77	0.00	184.29	0.00	184.81	0.00	185.33	0.08
183.78	0.00	184.30	0.00	184.82	0.00	185.34	0.09
183.79	0.00	184.31	0.00	184.83	0.00	185.35	0.09
183.80	0.00	184.32	0.00	184.84	0.00	185.36	0.09
183.81	0.00	184.33	0.00	184.85	0.00	185.37	0.09

Stage-Discharge for Pond B-33: Basin #33 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.38	0.09	185.90	0.15	186.42	1.10	186.94	7.46
185.39	0.09	185.91	0.15	186.43	1.18	186.95	7.62
185.40	0.10	185.92	0.15	186.44	1.27	186.96	7.77
185.41	0.10	185.93	0.15	186.45	1.35	186.97	7.93
185.42	0.10	185.94	0.15	186.46	1.44	186.98	8.09
185.43	0.10	185.95	0.15	186.47	1.53	186.99	8.25
185.44	0.10	185.96	0.16	186.48	1.62	187.00	8.41
185.45	0.10	185.97	0.16	186.49	1.72	187.01	8.57
185.46	0.10	185.98	0.16	186.50	1.81	187.02	8.73
185.47	0.10	185.99	0.16	186.51	1.91	187.03	8.89
185.48	0.11	186.00	0.16	186.52	2.01	187.04	9.05
185.49	0.11	186.01	0.16	186.53	2.11	187.05	9.22
185.50	0.11	186.02	0.16	186.54	2.21	187.06	9.38
185.51	0.11	186.03	0.16	186.55	2.32	187.07	9.55
185.52	0.11	186.04	0.16	186.56	2.42	187.08	9.71
185.53	0.11	186.05	0.16	186.57	2.53	187.09	9.88
185.54	0.11	186.06	0.16	186.58	2.64	187.10	10.05
185.55	0.11	186.07	0.16	186.59	2.75	187.11	10.22
185.56	0.12	186.08	0.17	186.60	2.86	187.12	10.39
185.57	0.12	186.09	0.17	186.61	2.98	187.13	10.56
185.58	0.12	186.10	0.17	186.62	3.09	187.14	10.73
185.59	0.12	186.11	0.17	186.63	3.21	187.15	10.90
185.60	0.12	186.12	0.17	186.64	3.33	187.16	11.08
185.61	0.12	186.13	0.17	186.65	3.45	187.17	11.25
185.62	0.12	186.14	0.17	186.66	3.57	187.18	11.42
185.63	0.12	186.15	0.17	186.67	3.69	187.19	11.60
185.64	0.12	186.16	0.17	186.68	3.82	187.20	11.78
185.65	0.13	186.17	0.17	186.69	3.94	187.21	11.95
185.66	0.13	186.18	0.17	186.70	4.07	187.22	12.13
185.67	0.13	186.19	0.17	186.71	4.20	187.23	12.31
185.68	0.13	186.20	0.17	186.72	4.33	187.24	12.49
185.69	0.13	186.21	0.18	186.73	4.46	187.25	12.67
185.70	0.13	186.22	0.18	186.74	4.59	187.26	12.85
185.71	0.13	186.23	0.18	186.75	4.72	187.27	13.03
185.72	0.13	186.24	0.18	186.76	4.86	187.28	13.21
185.73	0.13	186.25	0.18	186.77	4.99	187.29	13.40
185.74	0.13	186.26	0.19	186.78	5.13	187.30	13.58
185.75	0.14	186.27	0.22	186.79	5.27	187.31	13.61
185.76	0.14	186.28	0.25	186.80	5.40	187.32	13.64
185.77	0.14	186.29	0.29	186.81	5.54	187.33	13.67
185.78	0.14	186.30	0.33	186.82	5.69	187.34	13.69
185.79	0.14	186.31	0.37	186.83	5.83	187.35	13.72
185.80	0.14	186.32	0.43	186.84	5.97	187.36	13.75
185.81	0.14	186.33	0.48	186.85	6.12	187.37	13.77
185.82	0.14	186.34	0.54	186.86	6.26	187.38	13.80
185.83	0.14	186.35	0.60	186.87	6.41	187.39	13.83
185.84	0.14	186.36	0.66	186.88	6.56	187.40	13.85
185.85	0.15	186.37	0.73	186.89	6.70	187.41	13.88
185.86	0.15	186.38	0.80	186.90	6.85	187.42	13.90
185.87	0.15	186.39	0.87	186.91	7.00	187.43	13.93
185.88	0.15	186.40	0.94	186.92	7.16	187.44	13.96
185.89	0.15	186.41	1.02	186.93	7.31	187.45	13.98

Stage-Discharge for Pond B-33: Basin #33 (continued)

Elevation (feet)	Primary (cfs)
187.46	14.01
187.47	14.03
187.48	14.06
187.49	14.08
187.50	14.11
187.51	14.14
187.52	14.16
187.53	14.19
187.54	14.21
187.55	14.24
187.56	14.26
187.57	14.29
187.58	14.31
187.59	14.34
187.60	14.36
187.61	14.39
187.62	14.41
187.63	14.44
187.64	14.46
187.65	14.49
187.66	14.51
187.67	14.54
187.68	14.56
187.69	14.59
187.70	14.61
187.71	14.64
187.72	14.66
187.73	14.69
187.74	14.71
187.75	14.74
187.76	14.88
187.77	15.12
187.78	15.42
187.79	15.77
187.80	16.17
187.81	16.61
187.82	17.08
187.83	17.59
187.84	18.13
187.85	18.70
187.86	19.30
187.87	19.92
187.88	20.57
187.89	21.25
187.90	21.95
187.91	22.67
187.92	23.42
187.93	24.19
187.94	24.98
187.95	25.79
187.96	26.66
187.97	27.55
187.98	28.47
187.99	29.42
188.00	**30.39**

Stage-Area-Storage for Pond B-33: Basin #33

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.30	0	0
183.31	35	0
183.32	71	1
183.33	106	2
183.34	142	3
183.35	177	4
183.36	213	6
183.37	248	9
183.38	284	11
183.39	319	14
183.40	354	18
183.41	390	21
183.42	425	26
183.43	461	30
183.44	496	35
183.45	532	40
183.46	567	45
183.47	603	51
183.48	638	57
183.49	673	64
183.50	709	71
183.51	744	78
183.52	780	86
183.53	815	94
183.54	851	102
183.55	886	111
183.56	922	120
183.57	957	129
183.58	992	139
183.59	1,028	149
183.60	1,063	159
183.61	1,099	170
183.62	1,134	181
183.63	1,170	193
183.64	1,205	205
183.65	1,241	217
183.66	1,276	230
183.67	1,311	243
183.68	1,347	256
183.69	1,382	270
183.70	1,418	284
183.71	1,453	298
183.72	1,489	313
183.73	1,524	328
183.74	1,559	343
183.75	1,595	359
183.76	1,630	375
183.77	1,666	391
183.78	1,701	408
183.79	1,737	425
183.80	1,772	443
183.81	1,808	461
183.82	1,843	479
183.83	1,878	498
183.84	1,914	517
183.85	1,949	536
183.86	1,985	556
183.87	2,020	576
183.88	2,056	596
183.89	2,091	617
183.90	2,127	638
183.91	2,162	659
183.92	2,197	681
183.93	2,233	703
183.94	2,268	726
183.95	2,304	749
183.96	2,339	772
183.97	2,375	796
183.98	2,410	819
183.99	2,446	844
184.00	2,481	868
184.01	2,489	893
184.02	2,497	918
184.03	2,505	943
184.04	2,512	968
184.05	2,520	993
184.06	2,528	1,019
184.07	2,536	1,044
184.08	2,544	1,069
184.09	2,552	1,095
184.10	2,560	1,120
184.11	2,568	1,146
184.12	2,575	1,172
184.13	2,583	1,198
184.14	2,591	1,223
184.15	2,599	1,249
184.16	2,607	1,275
184.17	2,615	1,301
184.18	2,623	1,328
184.19	2,631	1,354
184.20	2,638	1,380
184.21	2,646	1,407
184.22	2,654	1,433
184.23	2,662	1,460
184.24	2,670	1,486
184.25	2,678	1,513
184.26	2,686	1,540
184.27	2,693	1,567
184.28	2,701	1,594
184.29	2,709	1,621
184.30	2,717	1,648
184.31	2,725	1,675
184.32	2,733	1,703
184.33	2,741	1,730

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.34	2,749	1,757
184.35	2,756	1,785
184.36	2,764	1,813
184.37	2,772	1,840
184.38	2,780	1,868
184.39	2,788	1,896
184.40	2,796	1,924
184.41	2,804	1,952
184.42	2,812	1,980
184.43	2,819	2,008
184.44	2,827	2,036
184.45	2,835	2,064
184.46	2,843	2,093
184.47	2,851	2,121
184.48	2,859	2,150
184.49	2,867	2,179
184.50	2,875	2,207
184.51	2,882	2,236
184.52	2,890	2,265
184.53	2,898	2,294
184.54	2,906	2,323
184.55	2,914	2,352
184.56	2,922	2,381
184.57	2,930	2,410
184.58	2,937	2,440
184.59	2,945	2,469
184.60	2,953	2,499
184.61	2,961	2,528
184.62	2,969	2,558
184.63	2,977	2,588
184.64	2,985	2,617
184.65	2,993	2,647
184.66	3,000	2,677
184.67	3,008	2,707
184.68	3,016	2,737
184.69	3,024	2,768
184.70	3,032	2,798
184.71	3,040	2,828
184.72	3,048	2,859
184.73	3,056	2,889
184.74	3,063	2,920
184.75	3,071	2,950
184.76	3,079	2,981
184.77	3,087	3,012
184.78	3,095	3,043
184.79	3,103	3,074
184.80	3,111	3,105
184.81	3,118	3,136
184.82	3,126	3,167
184.83	3,134	3,199
184.84	3,142	3,230
184.85	3,150	3,262
184.86	3,158	3,293
184.87	3,166	3,325
184.88	3,174	3,356
184.89	3,181	3,388
184.90	3,189	3,420
184.91	3,197	3,452
184.92	3,205	3,484
184.93	3,213	3,516
184.94	3,221	3,548
184.95	3,229	3,580
184.96	3,237	3,613
184.97	3,244	3,645
184.98	3,252	3,678
184.99	3,260	3,710
185.00	3,268	3,743
185.01	3,276	3,776
185.02	3,285	3,808
185.03	3,293	3,841
185.04	3,302	3,874
185.05	3,310	3,907
185.06	3,319	3,940
185.07	3,327	3,974
185.08	3,335	4,007
185.09	3,344	4,040
185.10	3,352	4,074
185.11	3,361	4,107
185.12	3,369	4,141
185.13	3,378	4,175
185.14	3,386	4,209
185.15	3,394	4,243
185.16	3,403	4,277
185.17	3,411	4,311
185.18	3,420	4,345
185.19	3,428	4,379
185.20	3,437	4,413
185.21	3,445	4,448
185.22	3,453	4,482
185.23	3,462	4,517
185.24	3,470	4,551
185.25	3,479	4,586
185.26	3,487	4,621
185.27	3,496	4,656
185.28	3,504	4,691
185.29	3,512	4,726
185.30	3,521	4,761
185.31	3,529	4,796
185.32	3,538	4,832
185.33	3,546	4,867
185.34	3,555	4,903
185.35	3,563	4,938
185.36	3,571	4,974
185.37	3,580	5,010

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.38	3,588	5,046	185.90	4,027	7,025
185.39	3,597	5,081	185.91	4,035	7,066
185.40	3,605	5,117	185.92	4,044	7,106
185.41	3,614	5,154	185.93	4,052	7,147
185.42	3,622	5,190	185.94	4,060	7,187
185.43	3,630	5,226	185.95	4,069	7,228
185.44	3,639	5,262	185.96	4,077	7,269
185.45	3,647	5,299	185.97	4,086	7,309
185.46	3,656	5,335	185.98	4,094	7,350
185.47	3,664	5,372	185.99	4,103	7,391
185.48	3,673	5,409	186.00	4,111	7,432
185.49	3,681	5,445	186.01	4,120	7,474
185.50	3,690	5,482	186.02	4,129	7,515
185.51	3,698	5,519	186.03	4,138	7,556
185.52	3,706	5,556	186.04	4,147	7,598
185.53	3,715	5,593	186.05	4,156	7,639
185.54	3,723	5,630	186.06	4,165	7,681
185.55	3,732	5,668	186.07	4,174	7,722
185.56	3,740	5,705	186.08	4,183	7,764
185.57	3,749	5,743	186.09	4,192	7,806
185.58	3,757	5,780	186.10	4,201	7,848
185.59	3,765	5,818	186.11	4,210	7,890
185.60	3,774	5,855	186.12	4,219	7,932
185.61	3,782	5,893	186.13	4,228	7,974
185.62	3,791	5,931	186.14	4,237	8,017
185.63	3,799	5,969	186.15	4,246	8,059
185.64	3,808	6,007	186.16	4,255	8,102
185.65	3,816	6,045	186.17	4,264	8,144
185.66	3,824	6,083	186.18	4,273	8,187
185.67	3,833	6,122	186.19	4,282	8,230
185.68	3,841	6,160	186.20	4,291	8,273
185.69	3,850	6,198	186.21	4,300	8,315
185.70	3,858	6,237	186.22	4,309	8,359
185.71	3,867	6,276	186.23	4,318	8,402
185.72	3,875	6,314	186.24	4,327	8,445
185.73	3,883	6,353	186.25	4,336	8,488
185.74	3,892	6,392	186.26	4,345	8,532
185.75	3,900	6,431	186.27	4,354	8,575
185.76	3,909	6,470	186.28	4,363	8,619
185.77	3,917	6,509	186.29	4,372	8,662
185.78	3,926	6,548	186.30	4,381	8,706
185.79	3,934	6,588	186.31	4,390	8,750
185.80	3,942	6,627	186.32	4,399	8,794
185.81	3,951	6,666	186.33	4,408	8,838
185.82	3,959	6,706	186.34	4,417	8,882
185.83	3,968	6,746	186.35	4,426	8,926
185.84	3,976	6,785	186.36	4,435	8,971
185.85	3,985	6,825	186.37	4,444	9,015
185.86	3,993	6,865	186.38	4,453	9,059
185.87	4,001	6,905	186.39	4,462	9,104
185.88	4,010	6,945	186.40	4,471	9,149
185.89	4,018	6,985	186.41	4,480	9,193

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.42	4,489	9,238	186.94	4,956	11,694
186.43	4,498	9,283	186.95	4,965	11,743
186.44	4,507	9,328	186.96	4,974	11,793
186.45	4,516	9,373	186.97	4,983	11,843
186.46	4,525	9,419	186.98	4,992	11,893
186.47	4,534	9,464	186.99	5,001	11,943
186.48	4,543	9,509	187.00	5,010	11,993
186.49	4,552	9,555	187.01	5,020	12,043
186.50	4,561	9,600	187.02	5,029	12,093
186.51	4,569	9,646	187.03	5,039	12,144
186.52	4,578	9,692	187.04	5,048	12,194
186.53	4,587	9,737	187.05	5,058	12,245
186.54	4,596	9,783	187.06	5,067	12,295
186.55	4,605	9,829	187.07	5,077	12,346
186.56	4,614	9,875	187.08	5,086	12,397
186.57	4,623	9,922	187.09	5,096	12,448
186.58	4,632	9,968	187.10	5,106	12,499
186.59	4,641	10,014	187.11	5,115	12,550
186.60	4,650	10,061	187.12	5,125	12,601
186.61	4,659	10,107	187.13	5,134	12,652
186.62	4,668	10,154	187.14	5,144	12,704
186.63	4,677	10,201	187.15	5,153	12,755
186.64	4,686	10,248	187.16	5,163	12,807
186.65	4,695	10,294	187.17	5,173	12,858
186.66	4,704	10,341	187.18	5,182	12,910
186.67	4,713	10,389	187.19	5,192	12,962
186.68	4,722	10,436	187.20	5,201	13,014
186.69	4,731	10,483	187.21	5,211	13,066
186.70	4,740	10,530	187.22	5,220	13,118
186.71	4,749	10,578	187.23	5,230	13,170
186.72	4,758	10,625	187.24	5,239	13,223
186.73	4,767	10,673	187.25	5,249	13,275
186.74	4,776	10,721	187.26	5,259	13,328
186.75	4,785	10,768	187.27	5,268	13,380
186.76	4,794	10,816	187.28	5,278	13,433
186.77	4,803	10,864	187.29	5,287	13,486
186.78	4,812	10,912	187.30	5,297	13,539
186.79	4,821	10,961	187.31	5,306	13,592
186.80	4,830	11,009	187.32	5,316	13,645
186.81	4,839	11,057	187.33	5,325	13,698
186.82	4,848	11,106	187.34	5,335	13,752
186.83	4,857	11,154	187.35	5,345	13,805
186.84	4,866	11,203	187.36	5,354	13,858
186.85	4,875	11,251	187.37	5,364	13,912
186.86	4,884	11,300	187.38	5,373	13,966
186.87	4,893	11,349	187.39	5,383	14,019
186.88	4,902	11,398	187.40	5,392	14,073
186.89	4,911	11,447	187.41	5,402	14,127
186.90	4,920	11,496	187.42	5,412	14,181
186.91	4,929	11,546	187.43	5,421	14,236
186.92	4,938	11,595	187.44	5,431	14,290
186.93	4,947	11,644	187.45	5,440	14,344

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.46	5,450	14,399
187.47	5,459	14,453
187.48	5,469	14,508
187.49	5,478	14,563
187.50	5,488	14,617
187.51	5,498	14,672
187.52	5,507	14,727
187.53	5,517	14,782
187.54	5,526	14,838
187.55	5,536	14,893
187.56	5,545	14,948
187.57	5,555	15,004
187.58	5,564	15,059
187.59	5,574	15,115
187.60	5,584	15,171
187.61	5,593	15,227
187.62	5,603	15,283
187.63	5,612	15,339
187.64	5,622	15,395
187.65	5,631	15,451
187.66	5,641	15,508
187.67	5,651	15,564
187.68	5,660	15,621
187.69	5,670	15,677
187.70	5,679	15,734
187.71	5,689	15,791
187.72	5,698	15,848
187.73	5,708	15,905
187.74	5,717	15,962
187.75	5,727	16,019
187.76	5,737	16,077
187.77	5,746	16,134
187.78	5,756	16,191
187.79	5,765	16,249
187.80	5,775	16,307
187.81	5,784	16,365
187.82	5,794	16,422
187.83	5,803	16,480
187.84	5,813	16,539
187.85	5,823	16,597
187.86	5,832	16,655
187.87	5,842	16,713
187.88	5,851	16,772
187.89	5,861	16,830
187.90	5,870	16,889
187.91	5,880	16,948
187.92	5,890	17,007
187.93	5,899	17,066
187.94	5,909	17,125
187.95	5,918	17,184
187.96	5,928	17,243
187.97	5,937	17,302
187.98	5,947	17,362
187.99	5,956	17,421
188.00	**5,966**	**17,481**

Summary for Pond B-34: Basin #34

Inflow Area = 1.779 ac, 23.66% Impervious, Inflow Depth = 8.63" for Future 100 yr event
Inflow = 15.91 cfs @ 12.17 hrs, Volume= 1.279 af
Outflow = 12.62 cfs @ 12.25 hrs, Volume= 1.222 af, Atten= 21%, Lag= 4.6 min
Primary = 12.62 cfs @ 12.25 hrs, Volume= 1.222 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 193.34' @ 12.25 hrs Surf.Area= 6,715 sf Storage= 14,473 cf

Plug-Flow detention time= 183.3 min calculated for 1.222 af (96% of inflow)
Center-of-Mass det. time= 157.2 min (946.2 - 789.0)

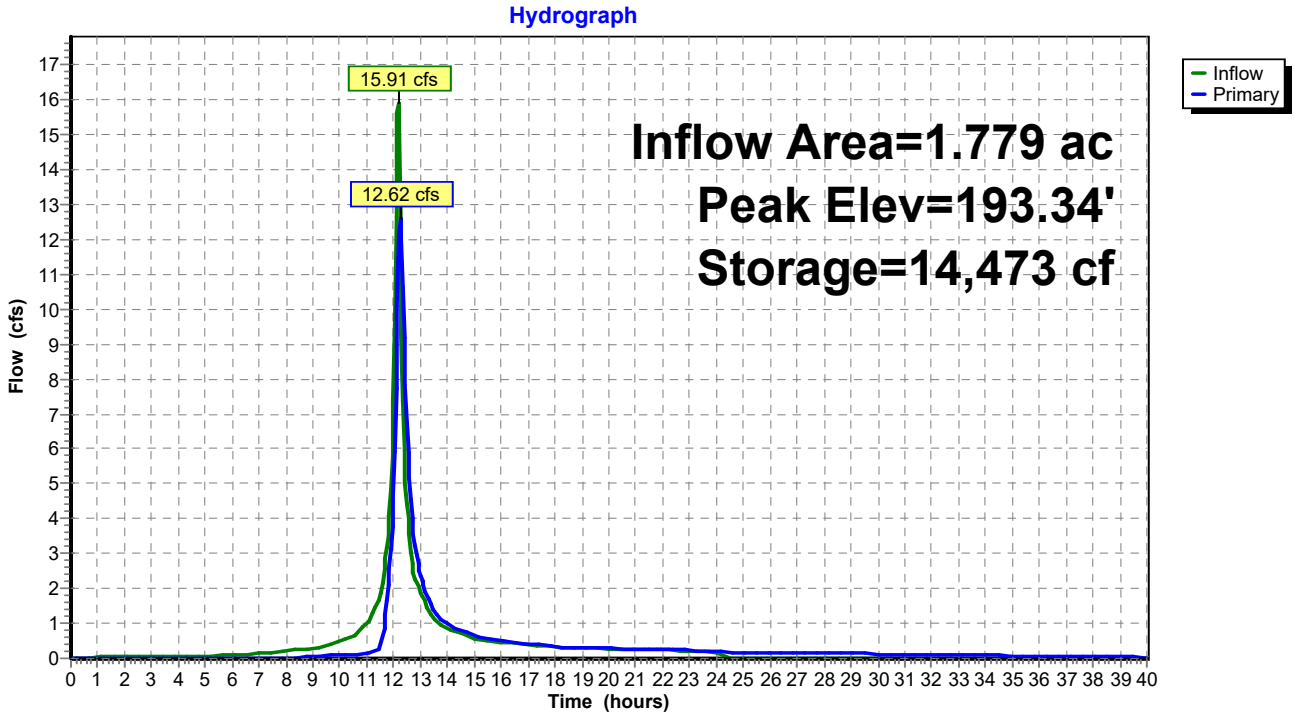
Volume	Invert	Avail.Storage	Storage Description
#1	190.30'	27,449 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.30	0	0	0
191.00	4,390	1,536	1,536
192.00	5,343	4,867	6,403
193.00	6,353	5,848	12,251
194.00	7,419	6,886	19,137
195.00	9,205	8,312	27,449

Device	Routing	Invert	Outlet Devices
#1	Primary	189.65'	**18.0" Round Culvert** L= 100.0' Ke= 0.500 Inlet / Outlet Invert= 189.65' / 189.15' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	191.09'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	192.33'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.25'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=12.75 cfs @ 12.25 hrs HW=193.34' (Free Discharge)
- **1=Culvert** (Barrel Controls 12.75 cfs @ 7.21 fps)
  - **2=Orifice/Grate** (Passes < 0.24 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 12.58 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-34: Basin #34



Stage-Discharge for Pond B-34: Basin #34

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.30	0.00	190.82	0.00	191.34	0.06	191.86	0.13
190.31	0.00	190.83	0.00	191.35	0.06	191.87	0.13
190.32	0.00	190.84	0.00	191.36	0.07	191.88	0.14
190.33	0.00	190.85	0.00	191.37	0.07	191.89	0.14
190.34	0.00	190.86	0.00	191.38	0.07	191.90	0.14
190.35	0.00	190.87	0.00	191.39	0.07	191.91	0.14
190.36	0.00	190.88	0.00	191.40	0.07	191.92	0.14
190.37	0.00	190.89	0.00	191.41	0.08	191.93	0.14
190.38	0.00	190.90	0.00	191.42	0.08	191.94	0.14
190.39	0.00	190.91	0.00	191.43	0.08	191.95	0.14
190.40	0.00	190.92	0.00	191.44	0.08	191.96	0.14
190.41	0.00	190.93	0.00	191.45	0.08	191.97	0.14
190.42	0.00	190.94	0.00	191.46	0.08	191.98	0.15
190.43	0.00	190.95	0.00	191.47	0.09	191.99	0.15
190.44	0.00	190.96	0.00	191.48	0.09	192.00	0.15
190.45	0.00	190.97	0.00	191.49	0.09	192.01	0.15
190.46	0.00	190.98	0.00	191.50	0.09	192.02	0.15
190.47	0.00	190.99	0.00	191.51	0.09	192.03	0.15
190.48	0.00	191.00	0.00	191.52	0.09	192.04	0.15
190.49	0.00	191.01	0.00	191.53	0.10	192.05	0.15
190.50	0.00	191.02	0.00	191.54	0.10	192.06	0.15
190.51	0.00	191.03	0.00	191.55	0.10	192.07	0.15
190.52	0.00	191.04	0.00	191.56	0.10	192.08	0.15
190.53	0.00	191.05	0.00	191.57	0.10	192.09	0.16
190.54	0.00	191.06	0.00	191.58	0.10	192.10	0.16
190.55	0.00	191.07	0.00	191.59	0.10	192.11	0.16
190.56	0.00	191.08	0.00	191.60	0.10	192.12	0.16
190.57	0.00	191.09	0.00	191.61	0.11	192.13	0.16
190.58	0.00	191.10	0.00	191.62	0.11	192.14	0.16
190.59	0.00	191.11	0.00	191.63	0.11	192.15	0.16
190.60	0.00	191.12	0.00	191.64	0.11	192.16	0.16
190.61	0.00	191.13	0.00	191.65	0.11	192.17	0.16
190.62	0.00	191.14	0.00	191.66	0.11	192.18	0.16
190.63	0.00	191.15	0.01	191.67	0.11	192.19	0.16
190.64	0.00	191.16	0.01	191.68	0.11	192.20	0.16
190.65	0.00	191.17	0.01	191.69	0.12	192.21	0.17
190.66	0.00	191.18	0.01	191.70	0.12	192.22	0.17
190.67	0.00	191.19	0.02	191.71	0.12	192.23	0.17
190.68	0.00	191.20	0.02	191.72	0.12	192.24	0.17
190.69	0.00	191.21	0.02	191.73	0.12	192.25	0.17
190.70	0.00	191.22	0.03	191.74	0.12	192.26	0.17
190.71	0.00	191.23	0.03	191.75	0.12	192.27	0.17
190.72	0.00	191.24	0.03	191.76	0.12	192.28	0.17
190.73	0.00	191.25	0.04	191.77	0.12	192.29	0.17
190.74	0.00	191.26	0.04	191.78	0.13	192.30	0.17
190.75	0.00	191.27	0.05	191.79	0.13	192.31	0.17
190.76	0.00	191.28	0.05	191.80	0.13	192.32	0.17
190.77	0.00	191.29	0.05	191.81	0.13	192.33	0.17
190.78	0.00	191.30	0.05	191.82	0.13	192.34	0.19
190.79	0.00	191.31	0.06	191.83	0.13	192.35	0.21
190.80	0.00	191.32	0.06	191.84	0.13	192.36	0.25
190.81	0.00	191.33	0.06	191.85	0.13	192.37	0.28

Stage-Discharge for Pond B-34: Basin #34 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.38	0.32	192.90	5.68	193.42	12.94	193.94	14.10
192.39	0.37	192.91	5.83	193.43	12.96	193.95	14.12
192.40	0.42	192.92	5.97	193.44	12.98	193.96	14.14
192.41	0.48	192.93	6.11	193.45	13.01	193.97	14.16
192.42	0.53	192.94	6.26	193.46	13.03	193.98	14.18
192.43	0.59	192.95	6.41	193.47	13.05	193.99	14.21
192.44	0.66	192.96	6.55	193.48	13.08	194.00	14.23
192.45	0.72	192.97	6.70	193.49	13.10	194.01	14.25
192.46	0.79	192.98	6.85	193.50	13.12	194.02	14.27
192.47	0.87	192.99	7.00	193.51	13.14	194.03	14.29
192.48	0.94	193.00	7.15	193.52	13.17	194.04	14.31
192.49	1.02	193.01	7.31	193.53	13.19	194.05	14.33
192.50	1.10	193.02	7.46	193.54	13.21	194.06	14.35
192.51	1.18	193.03	7.61	193.55	13.24	194.07	14.37
192.52	1.26	193.04	7.77	193.56	13.26	194.08	14.40
192.53	1.35	193.05	7.93	193.57	13.28	194.09	14.42
192.54	1.44	193.06	8.08	193.58	13.30	194.10	14.44
192.55	1.53	193.07	8.24	193.59	13.33	194.11	14.46
192.56	1.62	193.08	8.40	193.60	13.35	194.12	14.48
192.57	1.71	193.09	8.56	193.61	13.37	194.13	14.50
192.58	1.81	193.10	8.72	193.62	13.40	194.14	14.52
192.59	1.91	193.11	8.89	193.63	13.42	194.15	14.54
192.60	2.00	193.12	9.05	193.64	13.44	194.16	14.56
192.61	2.11	193.13	9.21	193.65	13.46	194.17	14.58
192.62	2.21	193.14	9.38	193.66	13.49	194.18	14.60
192.63	2.31	193.15	9.54	193.67	13.51	194.19	14.62
192.64	2.42	193.16	9.71	193.68	13.53	194.20	14.64
192.65	2.53	193.17	9.88	193.69	13.55	194.21	14.67
192.66	2.64	193.18	10.05	193.70	13.57	194.22	14.69
192.67	2.75	193.19	10.22	193.71	13.60	194.23	14.71
192.68	2.86	193.20	10.38	193.72	13.62	194.24	14.73
192.69	2.98	193.21	10.56	193.73	13.64	194.25	14.75
192.70	3.09	193.22	10.73	193.74	13.66	194.26	14.89
192.71	3.21	193.23	10.90	193.75	13.69	194.27	15.12
192.72	3.33	193.24	11.07	193.76	13.71	194.28	15.42
192.73	3.45	193.25	11.25	193.77	13.73	194.29	15.77
192.74	3.57	193.26	11.42	193.78	13.75	194.30	16.16
192.75	3.69	193.27	11.60	193.79	13.77	194.31	16.59
192.76	3.81	193.28	11.77	193.80	13.80	194.32	17.06
192.77	3.94	193.29	11.95	193.81	13.82	194.33	17.57
192.78	4.07	193.30	12.13	193.82	13.84	194.34	18.10
192.79	4.19	193.31	12.31	193.83	13.86	194.35	18.67
192.80	4.32	193.32	12.49	193.84	13.88	194.36	19.26
192.81	4.45	193.33	12.67	193.85	13.90	194.37	19.88
192.82	4.59	193.34	12.75	193.86	13.93	194.38	20.53
192.83	4.72	193.35	12.77	193.87	13.95	194.39	21.20
192.84	4.85	193.36	12.80	193.88	13.97	194.40	21.90
192.85	4.99	193.37	12.82	193.89	13.99	194.41	22.62
192.86	5.12	193.38	12.84	193.90	14.01	194.42	23.36
192.87	5.26	193.39	12.87	193.91	14.03	194.43	24.12
192.88	5.40	193.40	12.89	193.92	14.06	194.44	24.91
192.89	5.54	193.41	12.91	193.93	14.08	194.45	25.72

Stage-Discharge for Pond B-34: Basin #34 (continued)

Elevation (feet)	Primary (cfs)
194.46	26.58
194.47	27.48
194.48	28.39
194.49	29.34
194.50	30.30
194.51	31.30
194.52	32.32
194.53	33.36
194.54	34.43
194.55	35.52
194.56	36.64
194.57	37.78
194.58	38.94
194.59	40.13
194.60	41.34
194.61	42.58
194.62	43.84
194.63	45.13
194.64	46.44
194.65	47.78
194.66	49.16
194.67	50.57
194.68	52.01
194.69	53.47
194.70	54.96
194.71	56.48
194.72	58.02
194.73	59.59
194.74	61.18
194.75	62.80
194.76	64.45
194.77	66.12
194.78	67.83
194.79	69.55
194.80	71.31
194.81	73.09
194.82	74.89
194.83	76.73
194.84	78.59
194.85	80.48
194.86	82.12
194.87	83.78
194.88	85.46
194.89	87.14
194.90	88.84
194.91	90.56
194.92	92.28
194.93	94.02
194.94	95.77
194.95	97.54
194.96	99.31
194.97	101.10
194.98	102.91
194.99	104.72
195.00	**106.55**

Stage-Area-Storage for Pond B-34: Basin #34

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.30	0	0	190.82	3,261	848
190.31	63	0	190.83	3,324	881
190.32	125	1	190.84	3,387	914
190.33	188	3	190.85	3,449	949
190.34	251	5	190.86	3,512	983
190.35	314	8	190.87	3,575	1,019
190.36	376	11	190.88	3,637	1,055
190.37	439	15	190.89	3,700	1,092
190.38	502	20	190.90	3,763	1,129
190.39	564	25	190.91	3,826	1,167
190.40	627	31	190.92	3,888	1,205
190.41	690	38	190.93	3,951	1,245
190.42	753	45	190.94	4,014	1,284
190.43	815	53	190.95	4,076	1,325
190.44	878	61	190.96	4,139	1,366
190.45	941	71	190.97	4,202	1,408
190.46	1,003	80	190.98	4,265	1,450
190.47	1,066	91	190.99	4,327	1,493
190.48	1,129	102	191.00	4,390	1,536
190.49	1,192	113	191.01	4,400	1,580
190.50	1,254	125	191.02	4,409	1,624
190.51	1,317	138	191.03	4,419	1,669
190.52	1,380	152	191.04	4,428	1,713
190.53	1,442	166	191.05	4,438	1,757
190.54	1,505	181	191.06	4,447	1,802
190.55	1,568	196	191.07	4,457	1,846
190.56	1,631	212	191.08	4,466	1,891
190.57	1,693	229	191.09	4,476	1,935
190.58	1,756	246	191.10	4,485	1,980
190.59	1,819	264	191.11	4,495	2,025
190.60	1,881	282	191.12	4,504	2,070
190.61	1,944	301	191.13	4,514	2,115
190.62	2,007	321	191.14	4,523	2,160
190.63	2,070	341	191.15	4,533	2,206
190.64	2,132	362	191.16	4,542	2,251
190.65	2,195	384	191.17	4,552	2,297
190.66	2,258	406	191.18	4,562	2,342
190.67	2,320	429	191.19	4,571	2,388
190.68	2,383	453	191.20	4,581	2,434
190.69	2,446	477	191.21	4,590	2,479
190.70	2,509	502	191.22	4,600	2,525
190.71	2,571	527	191.23	4,609	2,571
190.72	2,634	553	191.24	4,619	2,618
190.73	2,697	580	191.25	4,628	2,664
190.74	2,759	607	191.26	4,638	2,710
190.75	2,822	635	191.27	4,647	2,757
190.76	2,885	664	191.28	4,657	2,803
190.77	2,948	693	191.29	4,666	2,850
190.78	3,010	722	191.30	4,676	2,896
190.79	3,073	753	191.31	4,685	2,943
190.80	3,136	784	191.32	4,695	2,990
190.81	3,198	816	191.33	4,704	3,037

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.34	4,714	3,084	191.86	5,210	5,664
191.35	4,724	3,131	191.87	5,219	5,716
191.36	4,733	3,179	191.88	5,229	5,769
191.37	4,743	3,226	191.89	5,238	5,821
191.38	4,752	3,274	191.90	5,248	5,873
191.39	4,762	3,321	191.91	5,257	5,926
191.40	4,771	3,369	191.92	5,267	5,979
191.41	4,781	3,416	191.93	5,276	6,031
191.42	4,790	3,464	191.94	5,286	6,084
191.43	4,800	3,512	191.95	5,295	6,137
191.44	4,809	3,560	191.96	5,305	6,190
191.45	4,819	3,608	191.97	5,314	6,243
191.46	4,828	3,657	191.98	5,324	6,296
191.47	4,838	3,705	191.99	5,333	6,350
191.48	4,847	3,753	192.00	5,343	6,403
191.49	4,857	3,802	192.01	5,353	6,456
191.50	4,867	3,851	192.02	5,363	6,510
191.51	4,876	3,899	192.03	5,373	6,564
191.52	4,886	3,948	192.04	5,383	6,618
191.53	4,895	3,997	192.05	5,394	6,671
191.54	4,905	4,046	192.06	5,404	6,725
191.55	4,914	4,095	192.07	5,414	6,779
191.56	4,924	4,144	192.08	5,424	6,834
191.57	4,933	4,194	192.09	5,434	6,888
191.58	4,943	4,243	192.10	5,444	6,942
191.59	4,952	4,292	192.11	5,454	6,997
191.60	4,962	4,342	192.12	5,464	7,051
191.61	4,971	4,392	192.13	5,474	7,106
191.62	4,981	4,441	192.14	5,484	7,161
191.63	4,990	4,491	192.15	5,495	7,216
191.64	5,000	4,541	192.16	5,505	7,271
191.65	5,009	4,591	192.17	5,515	7,326
191.66	5,019	4,641	192.18	5,525	7,381
191.67	5,029	4,692	192.19	5,535	7,436
191.68	5,038	4,742	192.20	5,545	7,492
191.69	5,048	4,792	192.21	5,555	7,547
191.70	5,057	4,843	192.22	5,565	7,603
191.71	5,067	4,894	192.23	5,575	7,659
191.72	5,076	4,944	192.24	5,585	7,714
191.73	5,086	4,995	192.25	5,596	7,770
191.74	5,095	5,046	192.26	5,606	7,826
191.75	5,105	5,097	192.27	5,616	7,882
191.76	5,114	5,148	192.28	5,626	7,939
191.77	5,124	5,199	192.29	5,636	7,995
191.78	5,133	5,251	192.30	5,646	8,051
191.79	5,143	5,302	192.31	5,656	8,108
191.80	5,152	5,353	192.32	5,666	8,164
191.81	5,162	5,405	192.33	5,676	8,221
191.82	5,171	5,457	192.34	5,686	8,278
191.83	5,181	5,508	192.35	5,697	8,335
191.84	5,191	5,560	192.36	5,707	8,392
191.85	5,200	5,612	192.37	5,717	8,449

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.38	5,727	8,506	192.90	6,252	11,621
192.39	5,737	8,564	192.91	6,262	11,683
192.40	5,747	8,621	192.92	6,272	11,746
192.41	5,757	8,679	192.93	6,282	11,809
192.42	5,767	8,736	192.94	6,292	11,872
192.43	5,777	8,794	192.95	6,303	11,935
192.44	5,787	8,852	192.96	6,313	11,998
192.45	5,798	8,910	192.97	6,323	12,061
192.46	5,808	8,968	192.98	6,333	12,124
192.47	5,818	9,026	192.99	6,343	12,188
192.48	5,828	9,084	193.00	6,353	12,251
192.49	5,838	9,142	193.01	6,364	12,315
192.50	5,848	9,201	193.02	6,374	12,378
192.51	5,858	9,259	193.03	6,385	12,442
192.52	5,868	9,318	193.04	6,396	12,506
192.53	5,878	9,377	193.05	6,406	12,570
192.54	5,888	9,435	193.06	6,417	12,634
192.55	5,899	9,494	193.07	6,428	12,698
192.56	5,909	9,553	193.08	6,438	12,763
192.57	5,919	9,613	193.09	6,449	12,827
192.58	5,929	9,672	193.10	6,460	12,892
192.59	5,939	9,731	193.11	6,470	12,956
192.60	5,949	9,791	193.12	6,481	13,021
192.61	5,959	9,850	193.13	6,492	13,086
192.62	5,969	9,910	193.14	6,502	13,151
192.63	5,979	9,970	193.15	6,513	13,216
192.64	5,989	10,029	193.16	6,524	13,281
192.65	6,000	10,089	193.17	6,534	13,346
192.66	6,010	10,149	193.18	6,545	13,412
192.67	6,020	10,210	193.19	6,556	13,477
192.68	6,030	10,270	193.20	6,566	13,543
192.69	6,040	10,330	193.21	6,577	13,609
192.70	6,050	10,391	193.22	6,588	13,674
192.71	6,060	10,451	193.23	6,598	13,740
192.72	6,070	10,512	193.24	6,609	13,806
192.73	6,080	10,573	193.25	6,620	13,873
192.74	6,090	10,633	193.26	6,630	13,939
192.75	6,101	10,694	193.27	6,641	14,005
192.76	6,111	10,755	193.28	6,651	14,072
192.77	6,121	10,817	193.29	6,662	14,138
192.78	6,131	10,878	193.30	6,673	14,205
192.79	6,141	10,939	193.31	6,683	14,272
192.80	6,151	11,001	193.32	6,694	14,339
192.81	6,161	11,062	193.33	6,705	14,406
192.82	6,171	11,124	193.34	6,715	14,473
192.83	6,181	11,186	193.35	6,726	14,540
192.84	6,191	11,247	193.36	6,737	14,607
192.85	6,202	11,309	193.37	6,747	14,675
192.86	6,212	11,371	193.38	6,758	14,742
192.87	6,222	11,434	193.39	6,769	14,810
192.88	6,232	11,496	193.40	6,779	14,877
192.89	6,242	11,558	193.41	6,790	14,945

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.42	6,801	15,013
193.43	6,811	15,081
193.44	6,822	15,150
193.45	6,833	15,218
193.46	6,843	15,286
193.47	6,854	15,355
193.48	6,865	15,423
193.49	6,875	15,492
193.50	6,886	15,561
193.51	6,897	15,630
193.52	6,907	15,699
193.53	6,918	15,768
193.54	6,929	15,837
193.55	6,939	15,906
193.56	6,950	15,976
193.57	6,961	16,045
193.58	6,971	16,115
193.59	6,982	16,185
193.60	6,993	16,255
193.61	7,003	16,325
193.62	7,014	16,395
193.63	7,025	16,465
193.64	7,035	16,535
193.65	7,046	16,606
193.66	7,057	16,676
193.67	7,067	16,747
193.68	7,078	16,817
193.69	7,089	16,888
193.70	7,099	16,959
193.71	7,110	17,030
193.72	7,121	17,101
193.73	7,131	17,173
193.74	7,142	17,244
193.75	7,153	17,316
193.76	7,163	17,387
193.77	7,174	17,459
193.78	7,184	17,531
193.79	7,195	17,603
193.80	7,206	17,675
193.81	7,216	17,747
193.82	7,227	17,819
193.83	7,238	17,891
193.84	7,248	17,964
193.85	7,259	18,036
193.86	7,270	18,109
193.87	7,280	18,182
193.88	7,291	18,254
193.89	7,302	18,327
193.90	7,312	18,400
193.91	7,323	18,474
193.92	7,334	18,547
193.93	7,344	18,620
193.94	7,355	18,694
193.95	7,366	18,767
193.96	7,376	18,841
193.97	7,387	18,915
193.98	7,398	18,989
193.99	7,408	19,063
194.00	7,419	19,137
194.01	7,437	19,211
194.02	7,455	19,286
194.03	7,473	19,360
194.04	7,490	19,435
194.05	7,508	19,510
194.06	7,526	19,585
194.07	7,544	19,661
194.08	7,562	19,736
194.09	7,580	19,812
194.10	7,598	19,888
194.11	7,615	19,964
194.12	7,633	20,040
194.13	7,651	20,117
194.14	7,669	20,193
194.15	7,687	20,270
194.16	7,705	20,347
194.17	7,723	20,424
194.18	7,740	20,501
194.19	7,758	20,579
194.20	7,776	20,657
194.21	7,794	20,734
194.22	7,812	20,812
194.23	7,830	20,891
194.24	7,848	20,969
194.25	7,866	21,048
194.26	7,883	21,126
194.27	7,901	21,205
194.28	7,919	21,284
194.29	7,937	21,364
194.30	7,955	21,443
194.31	7,973	21,523
194.32	7,991	21,603
194.33	8,008	21,683
194.34	8,026	21,763
194.35	8,044	21,843
194.36	8,062	21,924
194.37	8,080	22,004
194.38	8,098	22,085
194.39	8,116	22,166
194.40	8,133	22,247
194.41	8,151	22,329
194.42	8,169	22,411
194.43	8,187	22,492
194.44	8,205	22,574
194.45	8,223	22,656

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.46	8,241	22,739
194.47	8,258	22,821
194.48	8,276	22,904
194.49	8,294	22,987
194.50	8,312	23,070
194.51	8,330	23,153
194.52	8,348	23,236
194.53	8,366	23,320
194.54	8,383	23,404
194.55	8,401	23,488
194.56	8,419	23,572
194.57	8,437	23,656
194.58	8,455	23,740
194.59	8,473	23,825
194.60	8,491	23,910
194.61	8,508	23,995
194.62	8,526	24,080
194.63	8,544	24,165
194.64	8,562	24,251
194.65	8,580	24,337
194.66	8,598	24,423
194.67	8,616	24,509
194.68	8,633	24,595
194.69	8,651	24,681
194.70	8,669	24,768
194.71	8,687	24,855
194.72	8,705	24,942
194.73	8,723	25,029
194.74	8,741	25,116
194.75	8,759	25,204
194.76	8,776	25,291
194.77	8,794	25,379
194.78	8,812	25,467
194.79	8,830	25,555
194.80	8,848	25,644
194.81	8,866	25,732
194.82	8,884	25,821
194.83	8,901	25,910
194.84	8,919	25,999
194.85	8,937	26,088
194.86	8,955	26,178
194.87	8,973	26,267
194.88	8,991	26,357
194.89	9,009	26,447
194.90	9,026	26,537
194.91	9,044	26,628
194.92	9,062	26,718
194.93	9,080	26,809
194.94	9,098	26,900
194.95	9,116	26,991
194.96	9,134	27,082
194.97	9,151	27,174
194.98	9,169	27,265
194.99	9,187	27,357
195.00	**9,205**	**27,449**

Summary for Pond B-35: Basin #35

Inflow Area = 1.957 ac, 66.79% Impervious, Inflow Depth = 9.96" for Future 100 yr event
Inflow = 18.97 cfs @ 12.17 hrs, Volume= 1.624 af
Outflow = 14.21 cfs @ 12.26 hrs, Volume= 1.505 af, Atten= 25%, Lag= 5.2 min
Primary = 14.21 cfs @ 12.26 hrs, Volume= 1.505 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 194.20' @ 12.26 hrs Surf.Area= 7,116 sf Storage= 20,341 cf

Plug-Flow detention time= 180.8 min calculated for 1.505 af (93% of inflow)
Center-of-Mass det. time= 139.6 min (899.1 - 759.5)

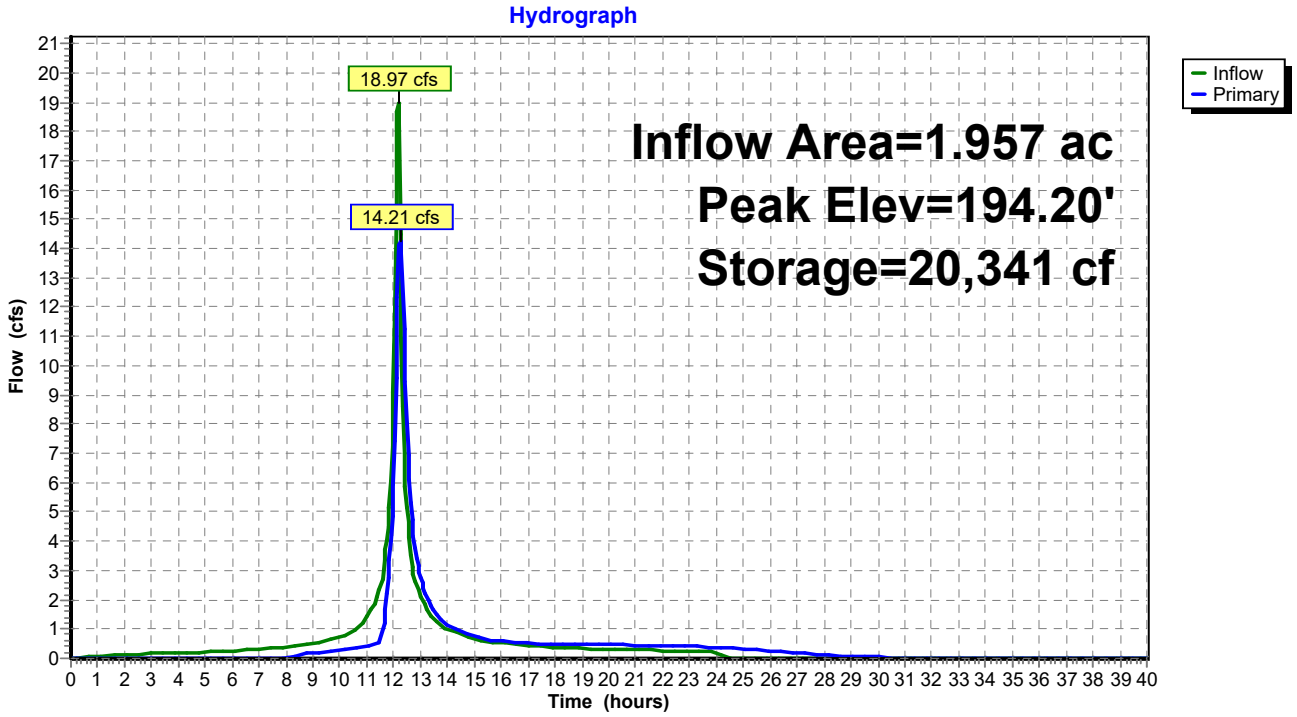
Volume	Invert	Avail.Storage	Storage Description
#1	189.80'	26,431 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
189.80	0	0	0
190.00	2,647	265	265
191.00	3,593	3,120	3,385
192.00	4,618	4,106	7,490
193.00	5,711	5,165	12,655
194.00	6,871	6,291	18,946
195.00	8,099	7,485	26,431

Device	Routing	Invert	Outlet Devices
#1	Primary	189.80'	**18.0" Round Culvert** L= 103.0' Ke= 0.500 Inlet / Outlet Invert= 189.80' / 189.30' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	191.44'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.05'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.50'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=14.21 cfs @ 12.26 hrs HW=194.20' (Free Discharge)
- **1=Culvert** (Barrel Controls 14.21 cfs @ 8.04 fps)
  - **2=Orifice/Grate** (Passes < 0.68 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 15.11 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-35: Basin #35



Stage-Discharge for Pond B-35: Basin #35

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
189.80	0.00	190.32	0.00	190.84	0.00	191.36	0.00
189.81	0.00	190.33	0.00	190.85	0.00	191.37	0.00
189.82	0.00	190.34	0.00	190.86	0.00	191.38	0.00
189.83	0.00	190.35	0.00	190.87	0.00	191.39	0.00
189.84	0.00	190.36	0.00	190.88	0.00	191.40	0.00
189.85	0.00	190.37	0.00	190.89	0.00	191.41	0.00
189.86	0.00	190.38	0.00	190.90	0.00	191.42	0.00
189.87	0.00	190.39	0.00	190.91	0.00	191.43	0.00
189.88	0.00	190.40	0.00	190.92	0.00	191.44	0.00
189.89	0.00	190.41	0.00	190.93	0.00	191.45	0.00
189.90	0.00	190.42	0.00	190.94	0.00	191.46	0.00
189.91	0.00	190.43	0.00	190.95	0.00	191.47	0.00
189.92	0.00	190.44	0.00	190.96	0.00	191.48	0.00
189.93	0.00	190.45	0.00	190.97	0.00	191.49	0.01
189.94	0.00	190.46	0.00	190.98	0.00	191.50	0.01
189.95	0.00	190.47	0.00	190.99	0.00	191.51	0.01
189.96	0.00	190.48	0.00	191.00	0.00	191.52	0.02
189.97	0.00	190.49	0.00	191.01	0.00	191.53	0.02
189.98	0.00	190.50	0.00	191.02	0.00	191.54	0.02
189.99	0.00	190.51	0.00	191.03	0.00	191.55	0.03
190.00	0.00	190.52	0.00	191.04	0.00	191.56	0.03
190.01	0.00	190.53	0.00	191.05	0.00	191.57	0.04
190.02	0.00	190.54	0.00	191.06	0.00	191.58	0.04
190.03	0.00	190.55	0.00	191.07	0.00	191.59	0.05
190.04	0.00	190.56	0.00	191.08	0.00	191.60	0.06
190.05	0.00	190.57	0.00	191.09	0.00	191.61	0.06
190.06	0.00	190.58	0.00	191.10	0.00	191.62	0.07
190.07	0.00	190.59	0.00	191.11	0.00	191.63	0.08
190.08	0.00	190.60	0.00	191.12	0.00	191.64	0.08
190.09	0.00	190.61	0.00	191.13	0.00	191.65	0.09
190.10	0.00	190.62	0.00	191.14	0.00	191.66	0.10
190.11	0.00	190.63	0.00	191.15	0.00	191.67	0.10
190.12	0.00	190.64	0.00	191.16	0.00	191.68	0.11
190.13	0.00	190.65	0.00	191.17	0.00	191.69	0.12
190.14	0.00	190.66	0.00	191.18	0.00	191.70	0.13
190.15	0.00	190.67	0.00	191.19	0.00	191.71	0.13
190.16	0.00	190.68	0.00	191.20	0.00	191.72	0.14
190.17	0.00	190.69	0.00	191.21	0.00	191.73	0.15
190.18	0.00	190.70	0.00	191.22	0.00	191.74	0.15
190.19	0.00	190.71	0.00	191.23	0.00	191.75	0.16
190.20	0.00	190.72	0.00	191.24	0.00	191.76	0.17
190.21	0.00	190.73	0.00	191.25	0.00	191.77	0.17
190.22	0.00	190.74	0.00	191.26	0.00	191.78	0.17
190.23	0.00	190.75	0.00	191.27	0.00	191.79	0.18
190.24	0.00	190.76	0.00	191.28	0.00	191.80	0.18
190.25	0.00	190.77	0.00	191.29	0.00	191.81	0.19
190.26	0.00	190.78	0.00	191.30	0.00	191.82	0.19
190.27	0.00	190.79	0.00	191.31	0.00	191.83	0.20
190.28	0.00	190.80	0.00	191.32	0.00	191.84	0.20
190.29	0.00	190.81	0.00	191.33	0.00	191.85	0.21
190.30	0.00	190.82	0.00	191.34	0.00	191.86	0.21
190.31	0.00	190.83	0.00	191.35	0.00	191.87	0.22

Stage-Discharge for Pond B-35: Basin #35 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
191.88	0.22	192.40	0.37	192.92	0.48	193.44	3.69
191.89	0.22	192.41	0.38	192.93	0.48	193.45	3.81
191.90	0.23	192.42	0.38	192.94	0.49	193.46	3.94
191.91	0.23	192.43	0.38	192.95	0.49	193.47	4.06
191.92	0.24	192.44	0.38	192.96	0.49	193.48	4.18
191.93	0.24	192.45	0.39	192.97	0.49	193.49	4.31
191.94	0.24	192.46	0.39	192.98	0.49	193.50	4.44
191.95	0.25	192.47	0.39	192.99	0.49	193.51	4.57
191.96	0.25	192.48	0.39	193.00	0.50	193.52	4.70
191.97	0.25	192.49	0.39	193.01	0.50	193.53	4.83
191.98	0.26	192.50	0.40	193.02	0.50	193.54	4.96
191.99	0.26	192.51	0.40	193.03	0.50	193.55	5.09
192.00	0.26	192.52	0.40	193.04	0.50	193.56	5.23
192.01	0.27	192.53	0.40	193.05	0.50	193.57	5.37
192.02	0.27	192.54	0.41	193.06	0.52	193.58	5.50
192.03	0.27	192.55	0.41	193.07	0.55	193.59	5.64
192.04	0.28	192.56	0.41	193.08	0.58	193.60	5.78
192.05	0.28	192.57	0.41	193.09	0.62	193.61	5.92
192.06	0.28	192.58	0.41	193.10	0.66	193.62	6.06
192.07	0.29	192.59	0.42	193.11	0.71	193.63	6.21
192.08	0.29	192.60	0.42	193.12	0.76	193.64	6.35
192.09	0.29	192.61	0.42	193.13	0.81	193.65	6.50
192.10	0.30	192.62	0.42	193.14	0.87	193.66	6.64
192.11	0.30	192.63	0.43	193.15	0.93	193.67	6.79
192.12	0.30	192.64	0.43	193.16	1.00	193.68	6.94
192.13	0.30	192.65	0.43	193.17	1.07	193.69	7.09
192.14	0.31	192.66	0.43	193.18	1.14	193.70	7.24
192.15	0.31	192.67	0.43	193.19	1.21	193.71	7.39
192.16	0.31	192.68	0.44	193.20	1.28	193.72	7.54
192.17	0.32	192.69	0.44	193.21	1.36	193.73	7.70
192.18	0.32	192.70	0.44	193.22	1.44	193.74	7.85
192.19	0.32	192.71	0.44	193.23	1.53	193.75	8.01
192.20	0.32	192.72	0.44	193.24	1.61	193.76	8.16
192.21	0.33	192.73	0.45	193.25	1.70	193.77	8.32
192.22	0.33	192.74	0.45	193.26	1.79	193.78	8.48
192.23	0.33	192.75	0.45	193.27	1.88	193.79	8.64
192.24	0.33	192.76	0.45	193.28	1.97	193.80	8.80
192.25	0.34	192.77	0.45	193.29	2.06	193.81	8.96
192.26	0.34	192.78	0.46	193.30	2.16	193.82	9.12
192.27	0.34	192.79	0.46	193.31	2.26	193.83	9.29
192.28	0.34	192.80	0.46	193.32	2.36	193.84	9.45
192.29	0.35	192.81	0.46	193.33	2.46	193.85	9.61
192.30	0.35	192.82	0.46	193.34	2.57	193.86	9.78
192.31	0.35	192.83	0.46	193.35	2.67	193.87	9.95
192.32	0.35	192.84	0.47	193.36	2.78	193.88	10.11
192.33	0.36	192.85	0.47	193.37	2.89	193.89	10.28
192.34	0.36	192.86	0.47	193.38	3.00	193.90	10.45
192.35	0.36	192.87	0.47	193.39	3.11	193.91	10.62
192.36	0.36	192.88	0.47	193.40	3.22	193.92	10.79
192.37	0.37	192.89	0.48	193.41	3.34	193.93	10.96
192.38	0.37	192.90	0.48	193.42	3.46	193.94	11.14
192.39	0.37	192.91	0.48	193.43	3.57	193.95	11.31

Stage-Discharge for Pond B-35: Basin #35 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.96	11.48	194.48	14.79	195.00	**62.86**
193.97	11.66	194.49	14.81		
193.98	11.83	194.50	14.83		
193.99	12.01	194.51	14.97		
194.00	12.19	194.52	15.20		
194.01	12.36	194.53	15.50		
194.02	12.54	194.54	15.85		
194.03	12.72	194.55	16.24		
194.04	12.90	194.56	16.67		
194.05	13.08	194.57	17.14		
194.06	13.26	194.58	17.65		
194.07	13.45	194.59	18.18		
194.08	13.63	194.60	18.75		
194.09	13.81	194.61	19.34		
194.10	14.00	194.62	19.96		
194.11	14.03	194.63	20.61		
194.12	14.05	194.64	21.28		
194.13	14.07	194.65	21.97		
194.14	14.09	194.66	22.69		
194.15	14.11	194.67	23.43		
194.16	14.13	194.68	24.20		
194.17	14.15	194.69	24.98		
194.18	14.17	194.70	25.79		
194.19	14.19	194.71	26.66		
194.20	14.22	194.72	27.55		
194.21	14.24	194.73	28.47		
194.22	14.26	194.74	29.41		
194.23	14.28	194.75	30.38		
194.24	14.30	194.76	31.37		
194.25	14.32	194.77	32.39		
194.26	14.34	194.78	33.43		
194.27	14.36	194.79	34.50		
194.28	14.38	194.80	35.59		
194.29	14.40	194.81	36.70		
194.30	14.42	194.82	37.84		
194.31	14.44	194.83	39.01		
194.32	14.46	194.84	40.20		
194.33	14.48	194.85	41.41		
194.34	14.51	194.86	42.65		
194.35	14.53	194.87	43.91		
194.36	14.55	194.88	45.20		
194.37	14.57	194.89	46.51		
194.38	14.59	194.90	47.84		
194.39	14.61	194.91	49.23		
194.40	14.63	194.92	50.64		
194.41	14.65	194.93	52.07		
194.42	14.67	194.94	53.54		
194.43	14.69	194.95	55.02		
194.44	14.71	194.96	56.54		
194.45	14.73	194.97	58.08		
194.46	14.75	194.98	59.65		
194.47	14.77	194.99	61.24		

Stage-Area-Storage for Pond B-35: Basin #35

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
189.80	0	0
189.81	132	1
189.82	265	3
189.83	397	6
189.84	529	11
189.85	662	17
189.86	794	24
189.87	926	32
189.88	1,059	42
189.89	1,191	54
189.90	1,324	66
189.91	1,456	80
189.92	1,588	95
189.93	1,721	112
189.94	1,853	130
189.95	1,985	149
189.96	2,118	169
189.97	2,250	191
189.98	2,382	214
189.99	2,515	239
190.00	2,647	265
190.01	2,656	291
190.02	2,666	318
190.03	2,675	345
190.04	2,685	371
190.05	2,694	398
190.06	2,704	425
190.07	2,713	452
190.08	2,723	479
190.09	2,732	507
190.10	2,742	534
190.11	2,751	562
190.12	2,761	589
190.13	2,770	617
190.14	2,779	645
190.15	2,789	672
190.16	2,798	700
190.17	2,808	728
190.18	2,817	756
190.19	2,827	785
190.20	2,836	813
190.21	2,846	841
190.22	2,855	870
190.23	2,865	899
190.24	2,874	927
190.25	2,884	956
190.26	2,893	985
190.27	2,902	1,014
190.28	2,912	1,043
190.29	2,921	1,072
190.30	2,931	1,101
190.31	2,940	1,131
190.32	2,950	1,160
190.33	2,959	1,190
190.34	2,969	1,219
190.35	2,978	1,249
190.36	2,988	1,279
190.37	2,997	1,309
190.38	3,006	1,339
190.39	3,016	1,369
190.40	3,025	1,399
190.41	3,035	1,429
190.42	3,044	1,460
190.43	3,054	1,490
190.44	3,063	1,521
190.45	3,073	1,552
190.46	3,082	1,582
190.47	3,092	1,613
190.48	3,101	1,644
190.49	3,111	1,675
190.50	3,120	1,706
190.51	3,129	1,738
190.52	3,139	1,769
190.53	3,148	1,800
190.54	3,158	1,832
190.55	3,167	1,864
190.56	3,177	1,895
190.57	3,186	1,927
190.58	3,196	1,959
190.59	3,205	1,991
190.60	3,215	2,023
190.61	3,224	2,055
190.62	3,234	2,088
190.63	3,243	2,120
190.64	3,252	2,153
190.65	3,262	2,185
190.66	3,271	2,218
190.67	3,281	2,251
190.68	3,290	2,283
190.69	3,300	2,316
190.70	3,309	2,349
190.71	3,319	2,383
190.72	3,328	2,416
190.73	3,338	2,449
190.74	3,347	2,482
190.75	3,357	2,516
190.76	3,366	2,550
190.77	3,375	2,583
190.78	3,385	2,617
190.79	3,394	2,651
190.80	3,404	2,685
190.81	3,413	2,719
190.82	3,423	2,753
190.83	3,432	2,788

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.84	3,442	2,822
190.85	3,451	2,856
190.86	3,461	2,891
190.87	3,470	2,926
190.88	3,479	2,960
190.89	3,489	2,995
190.90	3,498	3,030
190.91	3,508	3,065
190.92	3,517	3,100
190.93	3,527	3,136
190.94	3,536	3,171
190.95	3,546	3,206
190.96	3,555	3,242
190.97	3,565	3,277
190.98	3,574	3,313
190.99	3,584	3,349
191.00	3,593	3,385
191.01	3,603	3,421
191.02	3,614	3,457
191.03	3,624	3,493
191.04	3,634	3,529
191.05	3,644	3,566
191.06	3,655	3,602
191.07	3,665	3,639
191.08	3,675	3,675
191.09	3,685	3,712
191.10	3,696	3,749
191.11	3,706	3,786
191.12	3,716	3,823
191.13	3,726	3,860
191.14	3,737	3,898
191.15	3,747	3,935
191.16	3,757	3,973
191.17	3,767	4,010
191.18	3,778	4,048
191.19	3,788	4,086
191.20	3,798	4,124
191.21	3,808	4,162
191.22	3,818	4,200
191.23	3,829	4,238
191.24	3,839	4,277
191.25	3,849	4,315
191.26	3,860	4,354
191.27	3,870	4,392
191.28	3,880	4,431
191.29	3,890	4,470
191.30	3,901	4,509
191.31	3,911	4,548
191.32	3,921	4,587
191.33	3,931	4,626
191.34	3,942	4,666
191.35	3,952	4,705
191.36	3,962	4,745
191.37	3,972	4,784
191.38	3,983	4,824
191.39	3,993	4,864
191.40	4,003	4,904
191.41	4,013	4,944
191.42	4,024	4,984
191.43	4,034	5,024
191.44	4,044	5,065
191.45	4,054	5,105
191.46	4,065	5,146
191.47	4,075	5,187
191.48	4,085	5,227
191.49	4,095	5,268
191.50	4,106	5,309
191.51	4,116	5,350
191.52	4,126	5,392
191.53	4,136	5,433
191.54	4,147	5,474
191.55	4,157	5,516
191.56	4,167	5,557
191.57	4,177	5,599
191.58	4,188	5,641
191.59	4,198	5,683
191.60	4,208	5,725
191.61	4,218	5,767
191.62	4,229	5,809
191.63	4,239	5,852
191.64	4,249	5,894
191.65	4,259	5,937
191.66	4,270	5,979
191.67	4,280	6,022
191.68	4,290	6,065
191.69	4,300	6,108
191.70	4,311	6,151
191.71	4,321	6,194
191.72	4,331	6,237
191.73	4,341	6,281
191.74	4,352	6,324
191.75	4,362	6,368
191.76	4,372	6,411
191.77	4,382	6,455
191.78	4,393	6,499
191.79	4,403	6,543
191.80	4,413	6,587
191.81	4,423	6,631
191.82	4,434	6,676
191.83	4,444	6,720
191.84	4,454	6,764
191.85	4,464	6,809
191.86	4,475	6,854
191.87	4,485	6,899

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.88	4,495	6,943
191.89	4,505	6,988
191.90	4,516	7,034
191.91	4,526	7,079
191.92	4,536	7,124
191.93	4,546	7,169
191.94	4,556	7,215
191.95	4,567	7,261
191.96	4,577	7,306
191.97	4,587	7,352
191.98	4,598	7,398
191.99	4,608	7,444
192.00	4,618	7,490
192.01	4,629	7,536
192.02	4,640	7,583
192.03	4,651	7,629
192.04	4,662	7,676
192.05	4,673	7,722
192.06	4,684	7,769
192.07	4,695	7,816
192.08	4,705	7,863
192.09	4,716	7,910
192.10	4,727	7,957
192.11	4,738	8,005
192.12	4,749	8,052
192.13	4,760	8,100
192.14	4,771	8,147
192.15	4,782	8,195
192.16	4,793	8,243
192.17	4,804	8,291
192.18	4,815	8,339
192.19	4,826	8,387
192.20	4,837	8,436
192.21	4,848	8,484
192.22	4,858	8,533
192.23	4,869	8,581
192.24	4,880	8,630
192.25	4,891	8,679
192.26	4,902	8,728
192.27	4,913	8,777
192.28	4,924	8,826
192.29	4,935	8,875
192.30	4,946	8,925
192.31	4,957	8,974
192.32	4,968	9,024
192.33	4,979	9,074
192.34	4,990	9,123
192.35	5,001	9,173
192.36	5,011	9,224
192.37	5,022	9,274
192.38	5,033	9,324
192.39	5,044	9,374
192.40	5,055	9,425
192.41	5,066	9,475
192.42	5,077	9,526
192.43	5,088	9,577
192.44	5,099	9,628
192.45	5,110	9,679
192.46	5,121	9,730
192.47	5,132	9,781
192.48	5,143	9,833
192.49	5,154	9,884
192.50	5,165	9,936
192.51	5,175	9,988
192.52	5,186	10,039
192.53	5,197	10,091
192.54	5,208	10,143
192.55	5,219	10,195
192.56	5,230	10,248
192.57	5,241	10,300
192.58	5,252	10,352
192.59	5,263	10,405
192.60	5,274	10,458
192.61	5,285	10,511
192.62	5,296	10,563
192.63	5,307	10,616
192.64	5,318	10,670
192.65	5,328	10,723
192.66	5,339	10,776
192.67	5,350	10,830
192.68	5,361	10,883
192.69	5,372	10,937
192.70	5,383	10,991
192.71	5,394	11,044
192.72	5,405	11,098
192.73	5,416	11,153
192.74	5,427	11,207
192.75	5,438	11,261
192.76	5,449	11,316
192.77	5,460	11,370
192.78	5,471	11,425
192.79	5,481	11,479
192.80	5,492	11,534
192.81	5,503	11,589
192.82	5,514	11,644
192.83	5,525	11,700
192.84	5,536	11,755
192.85	5,547	11,810
192.86	5,558	11,866
192.87	5,569	11,922
192.88	5,580	11,977
192.89	5,591	12,033
192.90	5,602	12,089
192.91	5,613	12,145

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.92	5,624	12,201	193.44	6,221	15,280
192.93	5,634	12,258	193.45	6,233	15,342
192.94	5,645	12,314	193.46	6,245	15,404
192.95	5,656	12,371	193.47	6,256	15,467
192.96	5,667	12,427	193.48	6,268	15,530
192.97	5,678	12,484	193.49	6,279	15,592
192.98	5,689	12,541	193.50	6,291	15,655
192.99	5,700	12,598	193.51	6,303	15,718
193.00	5,711	12,655	193.52	6,314	15,781
193.01	5,723	12,712	193.53	6,326	15,844
193.02	5,734	12,769	193.54	6,337	15,908
193.03	5,746	12,827	193.55	6,349	15,971
193.04	5,757	12,884	193.56	6,361	16,035
193.05	5,769	12,942	193.57	6,372	16,098
193.06	5,781	12,999	193.58	6,384	16,162
193.07	5,792	13,057	193.59	6,395	16,226
193.08	5,804	13,115	193.60	6,407	16,290
193.09	5,815	13,173	193.61	6,419	16,354
193.10	5,827	13,232	193.62	6,430	16,418
193.11	5,839	13,290	193.63	6,442	16,483
193.12	5,850	13,348	193.64	6,453	16,547
193.13	5,862	13,407	193.65	6,465	16,612
193.14	5,873	13,466	193.66	6,477	16,677
193.15	5,885	13,524	193.67	6,488	16,741
193.16	5,897	13,583	193.68	6,500	16,806
193.17	5,908	13,642	193.69	6,511	16,871
193.18	5,920	13,701	193.70	6,523	16,937
193.19	5,931	13,761	193.71	6,535	17,002
193.20	5,943	13,820	193.72	6,546	17,067
193.21	5,955	13,880	193.73	6,558	17,133
193.22	5,966	13,939	193.74	6,569	17,198
193.23	5,978	13,999	193.75	6,581	17,264
193.24	5,989	14,059	193.76	6,593	17,330
193.25	6,001	14,119	193.77	6,604	17,396
193.26	6,013	14,179	193.78	6,616	17,462
193.27	6,024	14,239	193.79	6,627	17,528
193.28	6,036	14,299	193.80	6,639	17,595
193.29	6,047	14,360	193.81	6,651	17,661
193.30	6,059	14,420	193.82	6,662	17,728
193.31	6,071	14,481	193.83	6,674	17,794
193.32	6,082	14,542	193.84	6,685	17,861
193.33	6,094	14,602	193.85	6,697	17,928
193.34	6,105	14,663	193.86	6,709	17,995
193.35	6,117	14,725	193.87	6,720	18,062
193.36	6,129	14,786	193.88	6,732	18,130
193.37	6,140	14,847	193.89	6,743	18,197
193.38	6,152	14,909	193.90	6,755	18,264
193.39	6,163	14,970	193.91	6,767	18,332
193.40	6,175	15,032	193.92	6,778	18,400
193.41	6,187	15,094	193.93	6,790	18,468
193.42	6,198	15,156	193.94	6,801	18,536
193.43	6,210	15,218	193.95	6,813	18,604

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.96	6,825	18,672	194.48	7,460	22,385
193.97	6,836	18,740	194.49	7,473	22,460
193.98	6,848	18,809	194.50	7,485	22,535
193.99	6,859	18,877	194.51	7,497	22,610
194.00	6,871	18,946	194.52	7,510	22,685
194.01	6,883	19,014	194.53	7,522	22,760
194.02	6,896	19,083	194.54	7,534	22,835
194.03	6,908	19,152	194.55	7,546	22,910
194.04	6,920	19,222	194.56	7,559	22,986
194.05	6,932	19,291	194.57	7,571	23,062
194.06	6,945	19,360	194.58	7,583	23,137
194.07	6,957	19,430	194.59	7,596	23,213
194.08	6,969	19,499	194.60	7,608	23,289
194.09	6,982	19,569	194.61	7,620	23,365
194.10	6,994	19,639	194.62	7,632	23,442
194.11	7,006	19,709	194.63	7,645	23,518
194.12	7,018	19,779	194.64	7,657	23,595
194.13	7,031	19,849	194.65	7,669	23,671
194.14	7,043	19,920	194.66	7,681	23,748
194.15	7,055	19,990	194.67	7,694	23,825
194.16	7,067	20,061	194.68	7,706	23,902
194.17	7,080	20,132	194.69	7,718	23,979
194.18	7,092	20,202	194.70	7,731	24,056
194.19	7,104	20,273	194.71	7,743	24,134
194.20	7,117	20,344	194.72	7,755	24,211
194.21	7,129	20,416	194.73	7,767	24,289
194.22	7,141	20,487	194.74	7,780	24,366
194.23	7,153	20,559	194.75	7,792	24,444
194.24	7,166	20,630	194.76	7,804	24,522
194.25	7,178	20,702	194.77	7,817	24,600
194.26	7,190	20,774	194.78	7,829	24,679
194.27	7,203	20,846	194.79	7,841	24,757
194.28	7,215	20,918	194.80	7,853	24,835
194.29	7,227	20,990	194.81	7,866	24,914
194.30	7,239	21,062	194.82	7,878	24,993
194.31	7,252	21,135	194.83	7,890	25,072
194.32	7,264	21,207	194.84	7,903	25,151
194.33	7,276	21,280	194.85	7,915	25,230
194.34	7,289	21,353	194.86	7,927	25,309
194.35	7,301	21,426	194.87	7,939	25,388
194.36	7,313	21,499	194.88	7,952	25,468
194.37	7,325	21,572	194.89	7,964	25,547
194.38	7,338	21,645	194.90	7,976	25,627
194.39	7,350	21,719	194.91	7,988	25,707
194.40	7,362	21,792	194.92	8,001	25,787
194.41	7,374	21,866	194.93	8,013	25,867
194.42	7,387	21,940	194.94	8,025	25,947
194.43	7,399	22,014	194.95	8,038	26,027
194.44	7,411	22,088	194.96	8,050	26,108
194.45	7,424	22,162	194.97	8,062	26,188
194.46	7,436	22,236	194.98	8,074	26,269
194.47	7,448	22,311	194.99	8,087	26,350

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.00	**8,099**	**26,431**

Summary for Pond B-36A: Basin #36A

Inflow Area = 2.377 ac, 40.60% Impervious, Inflow Depth = 9.15" for Future 100 yr event
Inflow = 21.96 cfs @ 12.17 hrs, Volume= 1.812 af
Outflow = 21.70 cfs @ 12.20 hrs, Volume= 1.719 af, Atten= 1%, Lag= 1.5 min
Primary = 21.70 cfs @ 12.20 hrs, Volume= 1.719 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 195.10' @ 12.20 hrs Surf.Area= 5,389 sf Storage= 16,008 cf

Plug-Flow detention time= 132.5 min calculated for 1.717 af (95% of inflow)
Center-of-Mass det. time= 103.3 min (879.7 - 776.4)

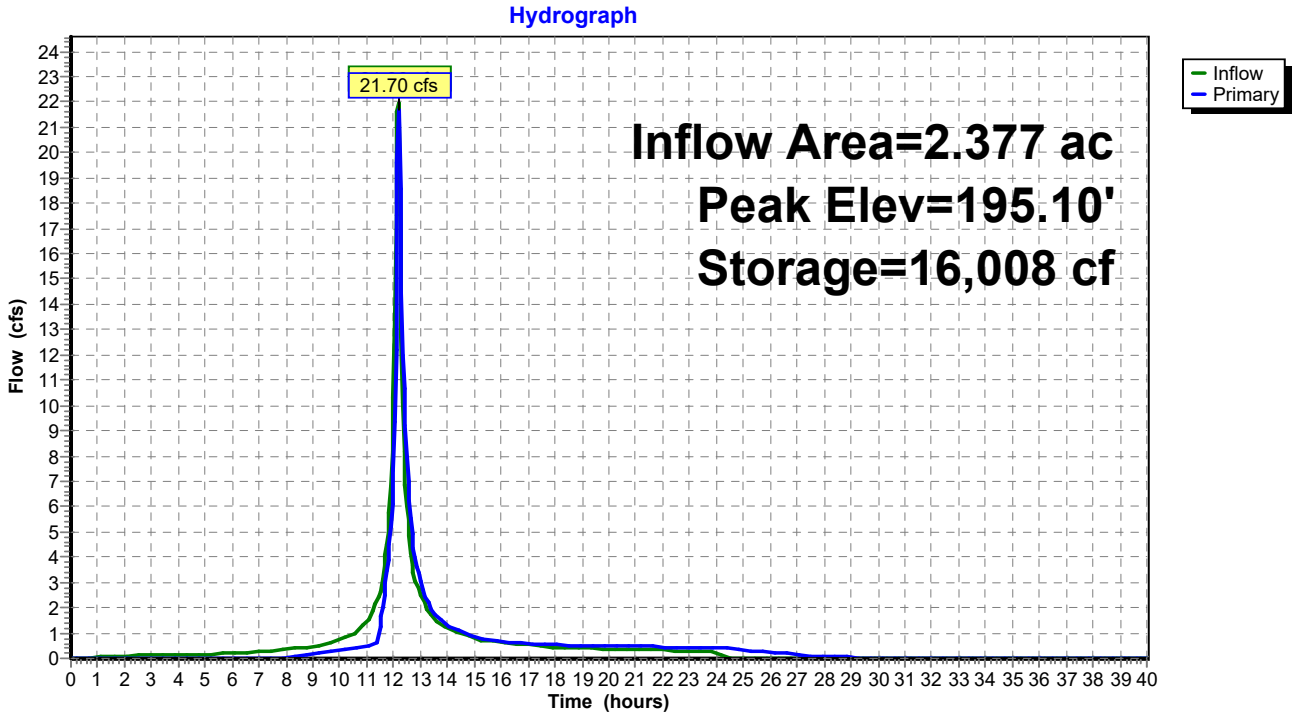
Volume	Invert	Avail.Storage	Storage Description
#1	190.50'	16,844 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.50	0	0	0
191.00	2,366	592	592
192.00	2,995	2,681	3,272
193.00	3,681	3,338	6,610
194.00	4,424	4,053	10,663
195.00	5,223	4,824	15,486
195.25	5,644	1,358	16,844

Device	Routing	Invert	Outlet Devices
#1	Primary	190.50'	**18.0" Round Culvert** L= 82.0' Ke= 0.500 Inlet / Outlet Invert= 190.50' / 190.10' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.24'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	194.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.95'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=21.41 cfs @ 12.20 hrs HW=195.10' (Free Discharge)
- **1=Culvert** (Passes 14.87 cfs of 15.31 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.69 cfs @ 7.90 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 14.18 cfs @ 3.42 fps)
- **4=Broad-Crested Rectangular Weir** (Weir Controls 6.55 cfs @ 0.89 fps)

Pond B-36A: Basin #36A



Stage-Discharge for Pond B-36A: Basin #36A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.50	0.00	191.02	0.00	191.54	0.00	192.06	0.00
190.51	0.00	191.03	0.00	191.55	0.00	192.07	0.00
190.52	0.00	191.04	0.00	191.56	0.00	192.08	0.00
190.53	0.00	191.05	0.00	191.57	0.00	192.09	0.00
190.54	0.00	191.06	0.00	191.58	0.00	192.10	0.00
190.55	0.00	191.07	0.00	191.59	0.00	192.11	0.00
190.56	0.00	191.08	0.00	191.60	0.00	192.12	0.00
190.57	0.00	191.09	0.00	191.61	0.00	192.13	0.00
190.58	0.00	191.10	0.00	191.62	0.00	192.14	0.00
190.59	0.00	191.11	0.00	191.63	0.00	192.15	0.00
190.60	0.00	191.12	0.00	191.64	0.00	192.16	0.00
190.61	0.00	191.13	0.00	191.65	0.00	192.17	0.00
190.62	0.00	191.14	0.00	191.66	0.00	192.18	0.00
190.63	0.00	191.15	0.00	191.67	0.00	192.19	0.00
190.64	0.00	191.16	0.00	191.68	0.00	192.20	0.00
190.65	0.00	191.17	0.00	191.69	0.00	192.21	0.00
190.66	0.00	191.18	0.00	191.70	0.00	192.22	0.00
190.67	0.00	191.19	0.00	191.71	0.00	192.23	0.00
190.68	0.00	191.20	0.00	191.72	0.00	192.24	0.00
190.69	0.00	191.21	0.00	191.73	0.00	192.25	0.00
190.70	0.00	191.22	0.00	191.74	0.00	192.26	0.00
190.71	0.00	191.23	0.00	191.75	0.00	192.27	0.00
190.72	0.00	191.24	0.00	191.76	0.00	192.28	0.00
190.73	0.00	191.25	0.00	191.77	0.00	192.29	0.01
190.74	0.00	191.26	0.00	191.78	0.00	192.30	0.01
190.75	0.00	191.27	0.00	191.79	0.00	192.31	0.01
190.76	0.00	191.28	0.00	191.80	0.00	192.32	0.02
190.77	0.00	191.29	0.00	191.81	0.00	192.33	0.02
190.78	0.00	191.30	0.00	191.82	0.00	192.34	0.02
190.79	0.00	191.31	0.00	191.83	0.00	192.35	0.03
190.80	0.00	191.32	0.00	191.84	0.00	192.36	0.03
190.81	0.00	191.33	0.00	191.85	0.00	192.37	0.04
190.82	0.00	191.34	0.00	191.86	0.00	192.38	0.04
190.83	0.00	191.35	0.00	191.87	0.00	192.39	0.05
190.84	0.00	191.36	0.00	191.88	0.00	192.40	0.06
190.85	0.00	191.37	0.00	191.89	0.00	192.41	0.06
190.86	0.00	191.38	0.00	191.90	0.00	192.42	0.07
190.87	0.00	191.39	0.00	191.91	0.00	192.43	0.08
190.88	0.00	191.40	0.00	191.92	0.00	192.44	0.08
190.89	0.00	191.41	0.00	191.93	0.00	192.45	0.09
190.90	0.00	191.42	0.00	191.94	0.00	192.46	0.10
190.91	0.00	191.43	0.00	191.95	0.00	192.47	0.10
190.92	0.00	191.44	0.00	191.96	0.00	192.48	0.11
190.93	0.00	191.45	0.00	191.97	0.00	192.49	0.12
190.94	0.00	191.46	0.00	191.98	0.00	192.50	0.13
190.95	0.00	191.47	0.00	191.99	0.00	192.51	0.13
190.96	0.00	191.48	0.00	192.00	0.00	192.52	0.14
190.97	0.00	191.49	0.00	192.01	0.00	192.53	0.15
190.98	0.00	191.50	0.00	192.02	0.00	192.54	0.15
190.99	0.00	191.51	0.00	192.03	0.00	192.55	0.16
191.00	0.00	191.52	0.00	192.04	0.00	192.56	0.17
191.01	0.00	191.53	0.00	192.05	0.00	192.57	0.17

Stage-Discharge for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.58	0.17	193.10	0.35	193.62	0.46	194.14	1.23
192.59	0.18	193.11	0.35	193.63	0.46	194.15	1.31
192.60	0.18	193.12	0.35	193.64	0.47	194.16	1.39
192.61	0.19	193.13	0.36	193.65	0.47	194.17	1.47
192.62	0.19	193.14	0.36	193.66	0.47	194.18	1.55
192.63	0.20	193.15	0.36	193.67	0.47	194.19	1.63
192.64	0.20	193.16	0.36	193.68	0.47	194.20	1.72
192.65	0.21	193.17	0.37	193.69	0.48	194.21	1.81
192.66	0.21	193.18	0.37	193.70	0.48	194.22	1.90
192.67	0.22	193.19	0.37	193.71	0.48	194.23	1.99
192.68	0.22	193.20	0.37	193.72	0.48	194.24	2.09
192.69	0.22	193.21	0.38	193.73	0.48	194.25	2.19
192.70	0.23	193.22	0.38	193.74	0.49	194.26	2.28
192.71	0.23	193.23	0.38	193.75	0.49	194.27	2.38
192.72	0.24	193.24	0.38	193.76	0.49	194.28	2.49
192.73	0.24	193.25	0.39	193.77	0.49	194.29	2.59
192.74	0.24	193.26	0.39	193.78	0.49	194.30	2.70
192.75	0.25	193.27	0.39	193.79	0.49	194.31	2.80
192.76	0.25	193.28	0.39	193.80	0.50	194.32	2.91
192.77	0.25	193.29	0.39	193.81	0.50	194.33	3.02
192.78	0.26	193.30	0.40	193.82	0.50	194.34	3.13
192.79	0.26	193.31	0.40	193.83	0.50	194.35	3.25
192.80	0.26	193.32	0.40	193.84	0.50	194.36	3.36
192.81	0.27	193.33	0.40	193.85	0.50	194.37	3.48
192.82	0.27	193.34	0.41	193.86	0.51	194.38	3.60
192.83	0.27	193.35	0.41	193.87	0.51	194.39	3.72
192.84	0.28	193.36	0.41	193.88	0.51	194.40	3.84
192.85	0.28	193.37	0.41	193.89	0.51	194.41	3.96
192.86	0.28	193.38	0.41	193.90	0.51	194.42	4.08
192.87	0.29	193.39	0.42	193.91	0.52	194.43	4.21
192.88	0.29	193.40	0.42	193.92	0.52	194.44	4.33
192.89	0.29	193.41	0.42	193.93	0.52	194.45	4.46
192.90	0.30	193.42	0.42	193.94	0.52	194.46	4.59
192.91	0.30	193.43	0.43	193.95	0.52	194.47	4.72
192.92	0.30	193.44	0.43	193.96	0.52	194.48	4.85
192.93	0.30	193.45	0.43	193.97	0.53	194.49	4.98
192.94	0.31	193.46	0.43	193.98	0.53	194.50	5.12
192.95	0.31	193.47	0.43	193.99	0.53	194.51	5.25
192.96	0.31	193.48	0.44	194.00	0.53	194.52	5.39
192.97	0.32	193.49	0.44	194.01	0.55	194.53	5.53
192.98	0.32	193.50	0.44	194.02	0.57	194.54	5.66
192.99	0.32	193.51	0.44	194.03	0.60	194.55	5.80
193.00	0.32	193.52	0.44	194.04	0.64	194.56	5.94
193.01	0.33	193.53	0.45	194.05	0.68	194.57	6.09
193.02	0.33	193.54	0.45	194.06	0.73	194.58	6.23
193.03	0.33	193.55	0.45	194.07	0.78	194.59	6.37
193.04	0.33	193.56	0.45	194.08	0.84	194.60	6.52
193.05	0.34	193.57	0.45	194.09	0.90	194.61	6.67
193.06	0.34	193.58	0.46	194.10	0.96	194.62	6.81
193.07	0.34	193.59	0.46	194.11	1.02	194.63	6.96
193.08	0.34	193.60	0.46	194.12	1.09	194.64	7.11
193.09	0.35	193.61	0.46	194.13	1.16	194.65	7.26

Stage-Discharge for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Primary (cfs)
194.66	7.41
194.67	7.57
194.68	7.72
194.69	7.87
194.70	8.03
194.71	8.19
194.72	8.34
194.73	8.50
194.74	8.66
194.75	8.82
194.76	8.98
194.77	9.14
194.78	9.31
194.79	9.47
194.80	9.63
194.81	9.80
194.82	9.97
194.83	10.13
194.84	10.30
194.85	10.47
194.86	10.64
194.87	10.81
194.88	10.98
194.89	11.16
194.90	11.33
194.91	11.50
194.92	11.68
194.93	11.85
194.94	12.03
194.95	12.21
194.96	12.50
194.97	12.89
194.98	13.35
194.99	13.86
195.00	14.41
195.01	15.01
195.02	15.64
195.03	16.31
195.04	17.01
195.05	17.74
195.06	18.49
195.07	19.28
195.08	20.09
195.09	20.93
195.10	21.80
195.11	22.68
195.12	23.60
195.13	24.40
195.14	25.18
195.15	25.99
195.16	26.86
195.17	27.75
195.18	28.67
195.19	29.62
195.20	30.59
195.21	31.58
195.22	32.60
195.23	33.65
195.24	34.72
195.25	**35.81**

Stage-Area-Storage for Pond B-36A: Basin #36A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.50	0	0
190.51	47	0
190.52	95	1
190.53	142	2
190.54	189	4
190.55	237	6
190.56	284	9
190.57	331	12
190.58	379	15
190.59	426	19
190.60	473	24
190.61	521	29
190.62	568	34
190.63	615	40
190.64	662	46
190.65	710	53
190.66	757	61
190.67	804	68
190.68	852	77
190.69	899	85
190.70	946	95
190.71	994	104
190.72	1,041	115
190.73	1,088	125
190.74	1,136	136
190.75	1,183	148
190.76	1,230	160
190.77	1,278	172
190.78	1,325	185
190.79	1,372	199
190.80	1,420	213
190.81	1,467	227
190.82	1,514	242
190.83	1,562	258
190.84	1,609	274
190.85	1,656	290
190.86	1,704	307
190.87	1,751	324
190.88	1,798	342
190.89	1,845	360
190.90	1,893	379
190.91	1,940	398
190.92	1,987	417
190.93	2,035	437
190.94	2,082	458
190.95	2,129	479
190.96	2,177	501
190.97	2,224	523
190.98	2,271	545
190.99	2,319	568
191.00	2,366	592
191.01	2,372	615
191.02	2,379	639
191.03	2,385	663
191.04	2,391	687
191.05	2,397	711
191.06	2,404	735
191.07	2,410	759
191.08	2,416	783
191.09	2,423	807
191.10	2,429	831
191.11	2,435	856
191.12	2,441	880
191.13	2,448	904
191.14	2,454	929
191.15	2,460	953
191.16	2,467	978
191.17	2,473	1,003
191.18	2,479	1,028
191.19	2,486	1,052
191.20	2,492	1,077
191.21	2,498	1,102
191.22	2,504	1,127
191.23	2,511	1,152
191.24	2,517	1,177
191.25	2,523	1,203
191.26	2,530	1,228
191.27	2,536	1,253
191.28	2,542	1,279
191.29	2,548	1,304
191.30	2,555	1,330
191.31	2,561	1,355
191.32	2,567	1,381
191.33	2,574	1,407
191.34	2,580	1,432
191.35	2,586	1,458
191.36	2,592	1,484
191.37	2,599	1,510
191.38	2,605	1,536
191.39	2,611	1,562
191.40	2,618	1,588
191.41	2,624	1,614
191.42	2,630	1,641
191.43	2,636	1,667
191.44	2,643	1,693
191.45	2,649	1,720
191.46	2,655	1,746
191.47	2,662	1,773
191.48	2,668	1,800
191.49	2,674	1,826
191.50	2,681	1,853
191.51	2,687	1,880
191.52	2,693	1,907
191.53	2,699	1,934

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.54	2,706	1,961
191.55	2,712	1,988
191.56	2,718	2,015
191.57	2,725	2,042
191.58	2,731	2,070
191.59	2,737	2,097
191.60	2,743	2,124
191.61	2,750	2,152
191.62	2,756	2,179
191.63	2,762	2,207
191.64	2,769	2,235
191.65	2,775	2,262
191.66	2,781	2,290
191.67	2,787	2,318
191.68	2,794	2,346
191.69	2,800	2,374
191.70	2,806	2,402
191.71	2,813	2,430
191.72	2,819	2,458
191.73	2,825	2,486
191.74	2,831	2,515
191.75	2,838	2,543
191.76	2,844	2,571
191.77	2,850	2,600
191.78	2,857	2,628
191.79	2,863	2,657
191.80	2,869	2,686
191.81	2,875	2,714
191.82	2,882	2,743
191.83	2,888	2,772
191.84	2,894	2,801
191.85	2,901	2,830
191.86	2,907	2,859
191.87	2,913	2,888
191.88	2,920	2,917
191.89	2,926	2,946
191.90	2,932	2,976
191.91	2,938	3,005
191.92	2,945	3,034
191.93	2,951	3,064
191.94	2,957	3,093
191.95	2,964	3,123
191.96	2,970	3,153
191.97	2,976	3,182
191.98	2,982	3,212
191.99	2,989	3,242
192.00	2,995	3,272
192.01	3,002	3,302
192.02	3,009	3,332
192.03	3,016	3,362
192.04	3,022	3,392
192.05	3,029	3,423
192.06	3,036	3,453
192.07	3,043	3,483
192.08	3,050	3,514
192.09	3,057	3,544
192.10	3,064	3,575
192.11	3,070	3,606
192.12	3,077	3,636
192.13	3,084	3,667
192.14	3,091	3,698
192.15	3,098	3,729
192.16	3,105	3,760
192.17	3,112	3,791
192.18	3,118	3,822
192.19	3,125	3,853
192.20	3,132	3,885
192.21	3,139	3,916
192.22	3,146	3,948
192.23	3,153	3,979
192.24	3,160	4,011
192.25	3,167	4,042
192.26	3,173	4,074
192.27	3,180	4,106
192.28	3,187	4,137
192.29	3,194	4,169
192.30	3,201	4,201
192.31	3,208	4,233
192.32	3,215	4,266
192.33	3,221	4,298
192.34	3,228	4,330
192.35	3,235	4,362
192.36	3,242	4,395
192.37	3,249	4,427
192.38	3,256	4,460
192.39	3,263	4,492
192.40	3,269	4,525
192.41	3,276	4,558
192.42	3,283	4,590
192.43	3,290	4,623
192.44	3,297	4,656
192.45	3,304	4,689
192.46	3,311	4,722
192.47	3,317	4,755
192.48	3,324	4,789
192.49	3,331	4,822
192.50	3,338	4,855
192.51	3,345	4,889
192.52	3,352	4,922
192.53	3,359	4,956
192.54	3,365	4,989
192.55	3,372	5,023
192.56	3,379	5,057
192.57	3,386	5,091

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.58	3,393	5,124
192.59	3,400	5,158
192.60	3,407	5,192
192.61	3,413	5,227
192.62	3,420	5,261
192.63	3,427	5,295
192.64	3,434	5,329
192.65	3,441	5,364
192.66	3,448	5,398
192.67	3,455	5,433
192.68	3,461	5,467
192.69	3,468	5,502
192.70	3,475	5,537
192.71	3,482	5,571
192.72	3,489	5,606
192.73	3,496	5,641
192.74	3,503	5,676
192.75	3,510	5,711
192.76	3,516	5,746
192.77	3,523	5,782
192.78	3,530	5,817
192.79	3,537	5,852
192.80	3,544	5,888
192.81	3,551	5,923
192.82	3,558	5,959
192.83	3,564	5,994
192.84	3,571	6,030
192.85	3,578	6,066
192.86	3,585	6,101
192.87	3,592	6,137
192.88	3,599	6,173
192.89	3,606	6,209
192.90	3,612	6,245
192.91	3,619	6,281
192.92	3,626	6,318
192.93	3,633	6,354
192.94	3,640	6,390
192.95	3,647	6,427
192.96	3,654	6,463
192.97	3,660	6,500
192.98	3,667	6,537
192.99	3,674	6,573
193.00	3,681	6,610
193.01	3,688	6,647
193.02	3,696	6,684
193.03	3,703	6,721
193.04	3,711	6,758
193.05	3,718	6,795
193.06	3,726	6,832
193.07	3,733	6,869
193.08	3,740	6,907
193.09	3,748	6,944
193.10	3,755	6,982
193.11	3,763	7,019
193.12	3,770	7,057
193.13	3,778	7,095
193.14	3,785	7,133
193.15	3,792	7,171
193.16	3,800	7,208
193.17	3,807	7,247
193.18	3,815	7,285
193.19	3,822	7,323
193.20	3,830	7,361
193.21	3,837	7,399
193.22	3,844	7,438
193.23	3,852	7,476
193.24	3,859	7,515
193.25	3,867	7,553
193.26	3,874	7,592
193.27	3,882	7,631
193.28	3,889	7,670
193.29	3,896	7,709
193.30	3,904	7,748
193.31	3,911	7,787
193.32	3,919	7,826
193.33	3,926	7,865
193.34	3,934	7,904
193.35	3,941	7,944
193.36	3,948	7,983
193.37	3,956	8,023
193.38	3,963	8,062
193.39	3,971	8,102
193.40	3,978	8,142
193.41	3,986	8,182
193.42	3,993	8,222
193.43	4,000	8,262
193.44	4,008	8,302
193.45	4,015	8,342
193.46	4,023	8,382
193.47	4,030	8,422
193.48	4,038	8,462
193.49	4,045	8,503
193.50	4,053	8,543
193.51	4,060	8,584
193.52	4,067	8,625
193.53	4,075	8,665
193.54	4,082	8,706
193.55	4,090	8,747
193.56	4,097	8,788
193.57	4,105	8,829
193.58	4,112	8,870
193.59	4,119	8,911
193.60	4,127	8,952
193.61	4,134	8,994

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.62	4,142	9,035	194.14	4,536	11,290
193.63	4,149	9,076	194.15	4,544	11,335
193.64	4,157	9,118	194.16	4,552	11,381
193.65	4,164	9,160	194.17	4,560	11,426
193.66	4,171	9,201	194.18	4,568	11,472
193.67	4,179	9,243	194.19	4,576	11,517
193.68	4,186	9,285	194.20	4,584	11,563
193.69	4,194	9,327	194.21	4,592	11,609
193.70	4,201	9,369	194.22	4,600	11,655
193.71	4,209	9,411	194.23	4,608	11,701
193.72	4,216	9,453	194.24	4,616	11,747
193.73	4,223	9,495	194.25	4,624	11,793
193.74	4,231	9,537	194.26	4,632	11,840
193.75	4,238	9,580	194.27	4,640	11,886
193.76	4,246	9,622	194.28	4,648	11,933
193.77	4,253	9,665	194.29	4,656	11,979
193.78	4,261	9,707	194.30	4,664	12,026
193.79	4,268	9,750	194.31	4,672	12,072
193.80	4,275	9,793	194.32	4,680	12,119
193.81	4,283	9,835	194.33	4,688	12,166
193.82	4,290	9,878	194.34	4,696	12,213
193.83	4,298	9,921	194.35	4,704	12,260
193.84	4,305	9,964	194.36	4,712	12,307
193.85	4,313	10,007	194.37	4,720	12,354
193.86	4,320	10,050	194.38	4,728	12,401
193.87	4,327	10,094	194.39	4,736	12,449
193.88	4,335	10,137	194.40	4,744	12,496
193.89	4,342	10,180	194.41	4,752	12,543
193.90	4,350	10,224	194.42	4,760	12,591
193.91	4,357	10,267	194.43	4,768	12,639
193.92	4,365	10,311	194.44	4,776	12,686
193.93	4,372	10,355	194.45	4,784	12,734
193.94	4,379	10,398	194.46	4,792	12,782
193.95	4,387	10,442	194.47	4,800	12,830
193.96	4,394	10,486	194.48	4,808	12,878
193.97	4,402	10,530	194.49	4,816	12,926
193.98	4,409	10,574	194.50	4,824	12,974
193.99	4,417	10,618	194.51	4,831	13,023
194.00	4,424	10,663	194.52	4,839	13,071
194.01	4,432	10,707	194.53	4,847	13,119
194.02	4,440	10,751	194.54	4,855	13,168
194.03	4,448	10,796	194.55	4,863	13,217
194.04	4,456	10,840	194.56	4,871	13,265
194.05	4,464	10,885	194.57	4,879	13,314
194.06	4,472	10,929	194.58	4,887	13,363
194.07	4,480	10,974	194.59	4,895	13,412
194.08	4,488	11,019	194.60	4,903	13,461
194.09	4,496	11,064	194.61	4,911	13,510
194.10	4,504	11,109	194.62	4,919	13,559
194.11	4,512	11,154	194.63	4,927	13,608
194.12	4,520	11,199	194.64	4,935	13,657
194.13	4,528	11,244	194.65	4,943	13,707

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.66	4,951	13,756
194.67	4,959	13,806
194.68	4,967	13,856
194.69	4,975	13,905
194.70	4,983	13,955
194.71	4,991	14,005
194.72	4,999	14,055
194.73	5,007	14,105
194.74	5,015	14,155
194.75	5,023	14,205
194.76	5,031	14,255
194.77	5,039	14,306
194.78	5,047	14,356
194.79	5,055	14,407
194.80	5,063	14,457
194.81	5,071	14,508
194.82	5,079	14,559
194.83	5,087	14,610
194.84	5,095	14,661
194.85	5,103	14,712
194.86	5,111	14,763
194.87	5,119	14,814
194.88	5,127	14,865
194.89	5,135	14,916
194.90	5,143	14,968
194.91	5,151	15,019
194.92	5,159	15,071
194.93	5,167	15,122
194.94	5,175	15,174
194.95	5,183	15,226
194.96	5,191	15,278
194.97	5,199	15,330
194.98	5,207	15,382
194.99	5,215	15,434
195.00	5,223	15,486
195.01	5,240	15,538
195.02	5,257	15,591
195.03	5,274	15,643
195.04	5,290	15,696
195.05	5,307	15,749
195.06	5,324	15,802
195.07	5,341	15,856
195.08	5,358	15,909
195.09	5,375	15,963
195.10	5,391	16,017
195.11	5,408	16,071
195.12	5,425	16,125
195.13	5,442	16,179
195.14	5,459	16,234
195.15	5,476	16,288
195.16	5,492	16,343
195.17	5,509	16,398
195.18	5,526	16,453
195.19	5,543	16,509
195.20	5,560	16,564
195.21	5,577	16,620
195.22	5,593	16,676
195.23	5,610	16,732
195.24	5,627	16,788
195.25	**5,644**	**16,844**

Summary for Pond B-36B: Basin #36B

Inflow Area = 2.469 ac, 46.54% Impervious, Inflow Depth = 9.33" for Future 100 yr event
Inflow = 23.06 cfs @ 12.17 hrs, Volume= 1.920 af
Outflow = 17.09 cfs @ 12.26 hrs, Volume= 1.813 af, Atten= 26%, Lag= 5.3 min
Primary = 17.09 cfs @ 12.26 hrs, Volume= 1.813 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 195.02' @ 12.27 hrs Surf.Area= 5,424 sf Storage= 15,552 cf

Plug-Flow detention time= 75.2 min calculated for 1.813 af (94% of inflow)
Center-of-Mass det. time= 42.1 min (814.4 - 772.3)

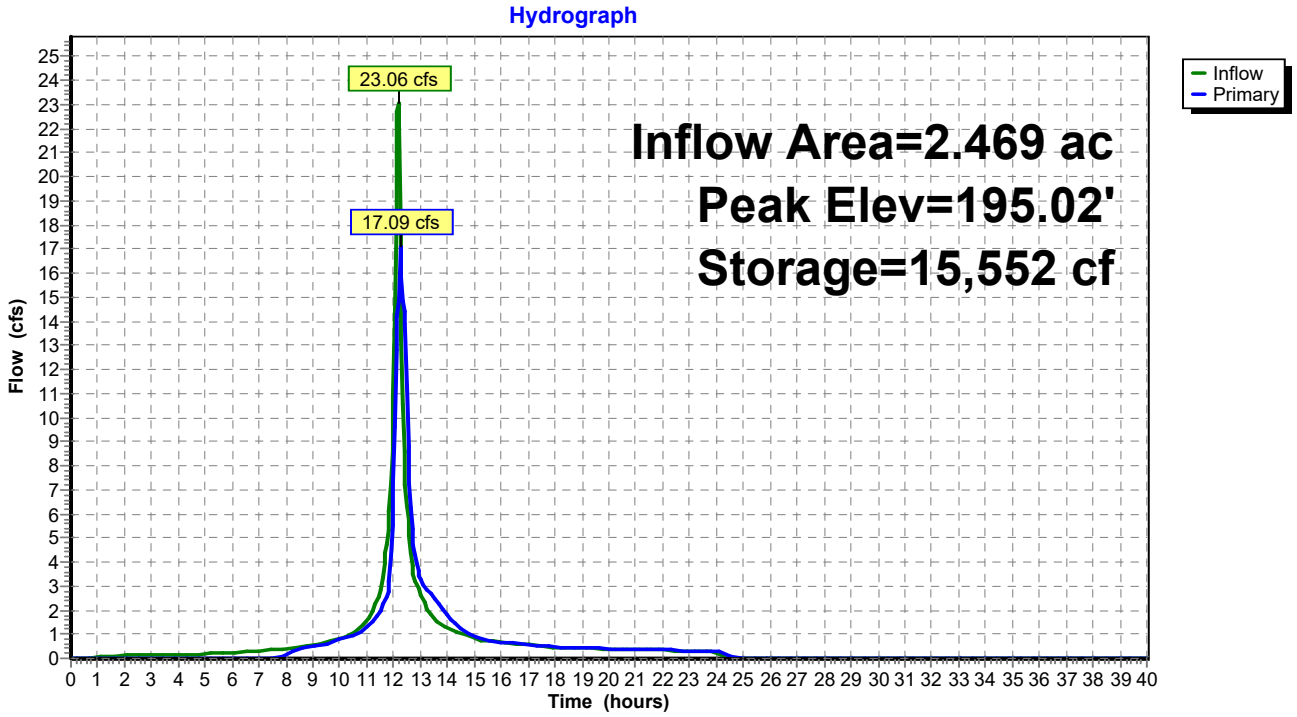
Volume	Invert	Avail.Storage	Storage Description
#1	190.50'	16,864 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.50	0	0	0
191.00	2,110	528	528
192.00	2,893	2,502	3,029
193.00	3,730	3,312	6,341
194.00	4,547	4,139	10,479
195.00	5,356	4,952	15,431
195.25	6,113	1,434	16,864

Device	Routing	Invert	Outlet Devices
#1	Primary	190.50'	**18.0" Round Culvert** L= 82.0' Ke= 0.500 Inlet / Outlet Invert= 190.50' / 190.10' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.53'	**36.0" W x 2.5" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.55'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.95'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=16.82 cfs @ 12.26 hrs HW=195.01' (Free Discharge)
- **1=Culvert** (Barrel Controls 15.12 cfs @ 8.56 fps)
  - **2=Orifice/Grate** (Passes < 4.64 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 21.38 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Weir Controls 1.70 cfs @ 0.57 fps)

Pond B-36B: Basin #36B



Stage-Discharge for Pond B-36B: Basin #36B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.50	0.00	191.02	0.00	191.54	0.00	192.06	0.00
190.51	0.00	191.03	0.00	191.55	0.00	192.07	0.00
190.52	0.00	191.04	0.00	191.56	0.00	192.08	0.00
190.53	0.00	191.05	0.00	191.57	0.00	192.09	0.00
190.54	0.00	191.06	0.00	191.58	0.00	192.10	0.00
190.55	0.00	191.07	0.00	191.59	0.00	192.11	0.00
190.56	0.00	191.08	0.00	191.60	0.00	192.12	0.00
190.57	0.00	191.09	0.00	191.61	0.00	192.13	0.00
190.58	0.00	191.10	0.00	191.62	0.00	192.14	0.00
190.59	0.00	191.11	0.00	191.63	0.00	192.15	0.00
190.60	0.00	191.12	0.00	191.64	0.00	192.16	0.00
190.61	0.00	191.13	0.00	191.65	0.00	192.17	0.00
190.62	0.00	191.14	0.00	191.66	0.00	192.18	0.00
190.63	0.00	191.15	0.00	191.67	0.00	192.19	0.00
190.64	0.00	191.16	0.00	191.68	0.00	192.20	0.00
190.65	0.00	191.17	0.00	191.69	0.00	192.21	0.00
190.66	0.00	191.18	0.00	191.70	0.00	192.22	0.00
190.67	0.00	191.19	0.00	191.71	0.00	192.23	0.00
190.68	0.00	191.20	0.00	191.72	0.00	192.24	0.00
190.69	0.00	191.21	0.00	191.73	0.00	192.25	0.00
190.70	0.00	191.22	0.00	191.74	0.00	192.26	0.00
190.71	0.00	191.23	0.00	191.75	0.00	192.27	0.00
190.72	0.00	191.24	0.00	191.76	0.00	192.28	0.00
190.73	0.00	191.25	0.00	191.77	0.00	192.29	0.00
190.74	0.00	191.26	0.00	191.78	0.00	192.30	0.00
190.75	0.00	191.27	0.00	191.79	0.00	192.31	0.00
190.76	0.00	191.28	0.00	191.80	0.00	192.32	0.00
190.77	0.00	191.29	0.00	191.81	0.00	192.33	0.00
190.78	0.00	191.30	0.00	191.82	0.00	192.34	0.00
190.79	0.00	191.31	0.00	191.83	0.00	192.35	0.00
190.80	0.00	191.32	0.00	191.84	0.00	192.36	0.00
190.81	0.00	191.33	0.00	191.85	0.00	192.37	0.00
190.82	0.00	191.34	0.00	191.86	0.00	192.38	0.00
190.83	0.00	191.35	0.00	191.87	0.00	192.39	0.00
190.84	0.00	191.36	0.00	191.88	0.00	192.40	0.00
190.85	0.00	191.37	0.00	191.89	0.00	192.41	0.00
190.86	0.00	191.38	0.00	191.90	0.00	192.42	0.00
190.87	0.00	191.39	0.00	191.91	0.00	192.43	0.00
190.88	0.00	191.40	0.00	191.92	0.00	192.44	0.00
190.89	0.00	191.41	0.00	191.93	0.00	192.45	0.00
190.90	0.00	191.42	0.00	191.94	0.00	192.46	0.00
190.91	0.00	191.43	0.00	191.95	0.00	192.47	0.00
190.92	0.00	191.44	0.00	191.96	0.00	192.48	0.00
190.93	0.00	191.45	0.00	191.97	0.00	192.49	0.00
190.94	0.00	191.46	0.00	191.98	0.00	192.50	0.00
190.95	0.00	191.47	0.00	191.99	0.00	192.51	0.00
190.96	0.00	191.48	0.00	192.00	0.00	192.52	0.00
190.97	0.00	191.49	0.00	192.01	0.00	192.53	0.00
190.98	0.00	191.50	0.00	192.02	0.00	192.54	0.01
190.99	0.00	191.51	0.00	192.03	0.00	192.55	0.03
191.00	0.00	191.52	0.00	192.04	0.00	192.56	0.05
191.01	0.00	191.53	0.00	192.05	0.00	192.57	0.08

Stage-Discharge for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.58	0.11	193.10	2.05	193.62	3.23	194.14	9.44
192.59	0.14	193.11	2.07	193.63	3.30	194.15	9.60
192.60	0.18	193.12	2.09	193.64	3.37	194.16	9.76
192.61	0.22	193.13	2.12	193.65	3.44	194.17	9.92
192.62	0.26	193.14	2.14	193.66	3.52	194.18	10.08
192.63	0.30	193.15	2.16	193.67	3.60	194.19	10.24
192.64	0.35	193.16	2.18	193.68	3.69	194.20	10.40
192.65	0.40	193.17	2.20	193.69	3.77	194.21	10.56
192.66	0.45	193.18	2.22	193.70	3.86	194.22	10.72
192.67	0.50	193.19	2.24	193.71	3.95	194.23	10.89
192.68	0.56	193.20	2.26	193.72	4.04	194.24	11.05
192.69	0.62	193.21	2.28	193.73	4.14	194.25	11.22
192.70	0.67	193.22	2.30	193.74	4.24	194.26	11.38
192.71	0.74	193.23	2.32	193.75	4.34	194.27	11.55
192.72	0.80	193.24	2.34	193.76	4.44	194.28	11.72
192.73	0.86	193.25	2.36	193.77	4.54	194.29	11.89
192.74	0.93	193.26	2.38	193.78	4.65	194.30	12.06
192.75	0.98	193.27	2.40	193.79	4.75	194.31	12.23
192.76	1.03	193.28	2.42	193.80	4.86	194.32	12.40
192.77	1.08	193.29	2.43	193.81	4.97	194.33	12.58
192.78	1.12	193.30	2.45	193.82	5.09	194.34	12.75
192.79	1.16	193.31	2.47	193.83	5.20	194.35	12.93
192.80	1.20	193.32	2.49	193.84	5.32	194.36	13.10
192.81	1.24	193.33	2.51	193.85	5.43	194.37	13.28
192.82	1.28	193.34	2.53	193.86	5.55	194.38	13.46
192.83	1.32	193.35	2.54	193.87	5.67	194.39	13.63
192.84	1.35	193.36	2.56	193.88	5.80	194.40	13.70
192.85	1.38	193.37	2.58	193.89	5.92	194.41	13.73
192.86	1.42	193.38	2.60	193.90	6.05	194.42	13.75
192.87	1.45	193.39	2.61	193.91	6.17	194.43	13.77
192.88	1.48	193.40	2.63	193.92	6.30	194.44	13.80
192.89	1.51	193.41	2.65	193.93	6.43	194.45	13.82
192.90	1.54	193.42	2.67	193.94	6.56	194.46	13.85
192.91	1.57	193.43	2.68	193.95	6.69	194.47	13.87
192.92	1.60	193.44	2.70	193.96	6.83	194.48	13.90
192.93	1.63	193.45	2.72	193.97	6.96	194.49	13.92
192.94	1.66	193.46	2.73	193.98	7.10	194.50	13.94
192.95	1.68	193.47	2.75	193.99	7.24	194.51	13.97
192.96	1.71	193.48	2.77	194.00	7.38	194.52	13.99
192.97	1.74	193.49	2.78	194.01	7.52	194.53	14.02
192.98	1.76	193.50	2.80	194.02	7.66	194.54	14.04
192.99	1.79	193.51	2.81	194.03	7.80	194.55	14.06
193.00	1.81	193.52	2.83	194.04	7.94	194.56	14.09
193.01	1.84	193.53	2.85	194.05	8.09	194.57	14.11
193.02	1.86	193.54	2.86	194.06	8.24	194.58	14.13
193.03	1.89	193.55	2.88	194.07	8.38	194.59	14.16
193.04	1.91	193.56	2.91	194.08	8.53	194.60	14.18
193.05	1.94	193.57	2.95	194.09	8.68	194.61	14.21
193.06	1.96	193.58	2.99	194.10	8.83	194.62	14.23
193.07	1.98	193.59	3.05	194.11	8.98	194.63	14.25
193.08	2.00	193.60	3.10	194.12	9.14	194.64	14.28
193.09	2.03	193.61	3.16	194.13	9.29	194.65	14.30

Stage-Discharge for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Primary (cfs)
194.66	14.32
194.67	14.35
194.68	14.37
194.69	14.39
194.70	14.42
194.71	14.44
194.72	14.46
194.73	14.49
194.74	14.51
194.75	14.53
194.76	14.56
194.77	14.58
194.78	14.60
194.79	14.62
194.80	14.65
194.81	14.67
194.82	14.69
194.83	14.72
194.84	14.74
194.85	14.76
194.86	14.78
194.87	14.81
194.88	14.83
194.89	14.85
194.90	14.87
194.91	14.90
194.92	14.92
194.93	14.94
194.94	14.96
194.95	14.99
194.96	15.13
194.97	15.36
194.98	15.66
194.99	16.01
195.00	16.41
195.01	16.84
195.02	17.32
195.03	17.82
195.04	18.36
195.05	18.93
195.06	19.52
195.07	20.14
195.08	20.79
195.09	21.47
195.10	22.16
195.11	22.89
195.12	23.63
195.13	24.40
195.14	25.18
195.15	25.99
195.16	26.86
195.17	27.75
195.18	28.67
195.19	29.62
195.20	30.59
195.21	31.58
195.22	32.60
195.23	33.65
195.24	34.72
195.25	**35.81**

Stage-Area-Storage for Pond B-36B: Basin #36B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.50	0	0
190.51	42	0
190.52	84	1
190.53	127	2
190.54	169	3
190.55	211	5
190.56	253	8
190.57	295	10
190.58	338	14
190.59	380	17
190.60	422	21
190.61	464	26
190.62	506	30
190.63	549	36
190.64	591	41
190.65	633	47
190.66	675	54
190.67	717	61
190.68	760	68
190.69	802	76
190.70	844	84
190.71	886	93
190.72	928	102
190.73	971	112
190.74	1,013	122
190.75	1,055	132
190.76	1,097	143
190.77	1,139	154
190.78	1,182	165
190.79	1,224	177
190.80	1,266	190
190.81	1,308	203
190.82	1,350	216
190.83	1,393	230
190.84	1,435	244
190.85	1,477	258
190.86	1,519	273
190.87	1,561	289
190.88	1,604	305
190.89	1,646	321
190.90	1,688	338
190.91	1,730	355
190.92	1,772	372
190.93	1,815	390
190.94	1,857	408
190.95	1,899	427
190.96	1,941	446
190.97	1,983	466
190.98	2,026	486
190.99	2,068	507
191.00	2,110	528
191.01	2,118	549
191.02	2,126	570
191.03	2,133	591
191.04	2,141	613
191.05	2,149	634
191.06	2,157	656
191.07	2,165	677
191.08	2,173	699
191.09	2,180	721
191.10	2,188	742
191.11	2,196	764
191.12	2,204	786
191.13	2,212	808
191.14	2,220	831
191.15	2,227	853
191.16	2,235	875
191.17	2,243	898
191.18	2,251	920
191.19	2,259	943
191.20	2,267	965
191.21	2,274	988
191.22	2,282	1,011
191.23	2,290	1,034
191.24	2,298	1,056
191.25	2,306	1,079
191.26	2,314	1,103
191.27	2,321	1,126
191.28	2,329	1,149
191.29	2,337	1,172
191.30	2,345	1,196
191.31	2,353	1,219
191.32	2,361	1,243
191.33	2,368	1,266
191.34	2,376	1,290
191.35	2,384	1,314
191.36	2,392	1,338
191.37	2,400	1,362
191.38	2,408	1,386
191.39	2,415	1,410
191.40	2,423	1,434
191.41	2,431	1,458
191.42	2,439	1,483
191.43	2,447	1,507
191.44	2,455	1,532
191.45	2,462	1,556
191.46	2,470	1,581
191.47	2,478	1,606
191.48	2,486	1,631
191.49	2,494	1,655
191.50	2,502	1,680
191.51	2,509	1,705
191.52	2,517	1,731
191.53	2,525	1,756

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.54	2,533	1,781
191.55	2,541	1,806
191.56	2,548	1,832
191.57	2,556	1,857
191.58	2,564	1,883
191.59	2,572	1,909
191.60	2,580	1,934
191.61	2,588	1,960
191.62	2,595	1,986
191.63	2,603	2,012
191.64	2,611	2,038
191.65	2,619	2,064
191.66	2,627	2,091
191.67	2,635	2,117
191.68	2,642	2,143
191.69	2,650	2,170
191.70	2,658	2,196
191.71	2,666	2,223
191.72	2,674	2,250
191.73	2,682	2,276
191.74	2,689	2,303
191.75	2,697	2,330
191.76	2,705	2,357
191.77	2,713	2,384
191.78	2,721	2,411
191.79	2,729	2,439
191.80	2,736	2,466
191.81	2,744	2,493
191.82	2,752	2,521
191.83	2,760	2,549
191.84	2,768	2,576
191.85	2,776	2,604
191.86	2,783	2,632
191.87	2,791	2,660
191.88	2,799	2,687
191.89	2,807	2,716
191.90	2,815	2,744
191.91	2,823	2,772
191.92	2,830	2,800
191.93	2,838	2,828
191.94	2,846	2,857
191.95	2,854	2,885
191.96	2,862	2,914
191.97	2,870	2,943
191.98	2,877	2,971
191.99	2,885	3,000
192.00	2,893	3,029
192.01	2,901	3,058
192.02	2,910	3,087
192.03	2,918	3,116
192.04	2,926	3,145
192.05	2,935	3,175
192.06	2,943	3,204
192.07	2,952	3,234
192.08	2,960	3,263
192.09	2,968	3,293
192.10	2,977	3,322
192.11	2,985	3,352
192.12	2,993	3,382
192.13	3,002	3,412
192.14	3,010	3,442
192.15	3,019	3,472
192.16	3,027	3,503
192.17	3,035	3,533
192.18	3,044	3,563
192.19	3,052	3,594
192.20	3,060	3,624
192.21	3,069	3,655
192.22	3,077	3,686
192.23	3,086	3,717
192.24	3,094	3,747
192.25	3,102	3,778
192.26	3,111	3,809
192.27	3,119	3,841
192.28	3,127	3,872
192.29	3,136	3,903
192.30	3,144	3,935
192.31	3,152	3,966
192.32	3,161	3,998
192.33	3,169	4,029
192.34	3,178	4,061
192.35	3,186	4,093
192.36	3,194	4,125
192.37	3,203	4,157
192.38	3,211	4,189
192.39	3,219	4,221
192.40	3,228	4,253
192.41	3,236	4,285
192.42	3,245	4,318
192.43	3,253	4,350
192.44	3,261	4,383
192.45	3,270	4,416
192.46	3,278	4,448
192.47	3,286	4,481
192.48	3,295	4,514
192.49	3,303	4,547
192.50	3,312	4,580
192.51	3,320	4,613
192.52	3,328	4,647
192.53	3,337	4,680
192.54	3,345	4,713
192.55	3,353	4,747
192.56	3,362	4,780
192.57	3,370	4,814

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.58	3,378	4,848	193.10	3,812	6,718
192.59	3,387	4,882	193.11	3,820	6,756
192.60	3,395	4,915	193.12	3,828	6,794
192.61	3,404	4,949	193.13	3,836	6,832
192.62	3,412	4,984	193.14	3,844	6,871
192.63	3,420	5,018	193.15	3,853	6,909
192.64	3,429	5,052	193.16	3,861	6,948
192.65	3,437	5,086	193.17	3,869	6,986
192.66	3,445	5,121	193.18	3,877	7,025
192.67	3,454	5,155	193.19	3,885	7,064
192.68	3,462	5,190	193.20	3,893	7,103
192.69	3,471	5,224	193.21	3,902	7,142
192.70	3,479	5,259	193.22	3,910	7,181
192.71	3,487	5,294	193.23	3,918	7,220
192.72	3,496	5,329	193.24	3,926	7,259
192.73	3,504	5,364	193.25	3,934	7,299
192.74	3,512	5,399	193.26	3,942	7,338
192.75	3,521	5,434	193.27	3,951	7,377
192.76	3,529	5,469	193.28	3,959	7,417
192.77	3,537	5,505	193.29	3,967	7,457
192.78	3,546	5,540	193.30	3,975	7,496
192.79	3,554	5,576	193.31	3,983	7,536
192.80	3,563	5,611	193.32	3,991	7,576
192.81	3,571	5,647	193.33	4,000	7,616
192.82	3,579	5,683	193.34	4,008	7,656
192.83	3,588	5,718	193.35	4,016	7,696
192.84	3,596	5,754	193.36	4,024	7,736
192.85	3,604	5,790	193.37	4,032	7,777
192.86	3,613	5,827	193.38	4,040	7,817
192.87	3,621	5,863	193.39	4,049	7,857
192.88	3,630	5,899	193.40	4,057	7,898
192.89	3,638	5,935	193.41	4,065	7,938
192.90	3,646	5,972	193.42	4,073	7,979
192.91	3,655	6,008	193.43	4,081	8,020
192.92	3,663	6,045	193.44	4,089	8,061
192.93	3,671	6,081	193.45	4,098	8,102
192.94	3,680	6,118	193.46	4,106	8,143
192.95	3,688	6,155	193.47	4,114	8,184
192.96	3,697	6,192	193.48	4,122	8,225
192.97	3,705	6,229	193.49	4,130	8,266
192.98	3,713	6,266	193.50	4,139	8,308
192.99	3,722	6,303	193.51	4,147	8,349
193.00	3,730	6,341	193.52	4,155	8,391
193.01	3,738	6,378	193.53	4,163	8,432
193.02	3,746	6,415	193.54	4,171	8,474
193.03	3,755	6,453	193.55	4,179	8,516
193.04	3,763	6,490	193.56	4,188	8,557
193.05	3,771	6,528	193.57	4,196	8,599
193.06	3,779	6,566	193.58	4,204	8,641
193.07	3,787	6,604	193.59	4,212	8,683
193.08	3,795	6,642	193.60	4,220	8,726
193.09	3,804	6,680	193.61	4,228	8,768

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.62	4,237	8,810
193.63	4,245	8,853
193.64	4,253	8,895
193.65	4,261	8,938
193.66	4,269	8,980
193.67	4,277	9,023
193.68	4,286	9,066
193.69	4,294	9,109
193.70	4,302	9,152
193.71	4,310	9,195
193.72	4,318	9,238
193.73	4,326	9,281
193.74	4,335	9,324
193.75	4,343	9,368
193.76	4,351	9,411
193.77	4,359	9,455
193.78	4,367	9,498
193.79	4,375	9,542
193.80	4,384	9,586
193.81	4,392	9,630
193.82	4,400	9,674
193.83	4,408	9,718
193.84	4,416	9,762
193.85	4,424	9,806
193.86	4,433	9,850
193.87	4,441	9,895
193.88	4,449	9,939
193.89	4,457	9,984
193.90	4,465	10,028
193.91	4,473	10,073
193.92	4,482	10,118
193.93	4,490	10,163
193.94	4,498	10,208
193.95	4,506	10,253
193.96	4,514	10,298
193.97	4,522	10,343
193.98	4,531	10,388
193.99	4,539	10,434
194.00	4,547	10,479
194.01	4,555	10,525
194.02	4,563	10,570
194.03	4,571	10,616
194.04	4,579	10,662
194.05	4,587	10,707
194.06	4,596	10,753
194.07	4,604	10,799
194.08	4,612	10,845
194.09	4,620	10,892
194.10	4,628	10,938
194.11	4,636	10,984
194.12	4,644	11,030
194.13	4,652	11,077
194.14	4,660	11,124
194.15	4,668	11,170
194.16	4,676	11,217
194.17	4,685	11,264
194.18	4,693	11,311
194.19	4,701	11,358
194.20	4,709	11,405
194.21	4,717	11,452
194.22	4,725	11,499
194.23	4,733	11,546
194.24	4,741	11,594
194.25	4,749	11,641
194.26	4,757	11,689
194.27	4,765	11,736
194.28	4,774	11,784
194.29	4,782	11,832
194.30	4,790	11,880
194.31	4,798	11,927
194.32	4,806	11,975
194.33	4,814	12,024
194.34	4,822	12,072
194.35	4,830	12,120
194.36	4,838	12,168
194.37	4,846	12,217
194.38	4,854	12,265
194.39	4,863	12,314
194.40	4,871	12,363
194.41	4,879	12,411
194.42	4,887	12,460
194.43	4,895	12,509
194.44	4,903	12,558
194.45	4,911	12,607
194.46	4,919	12,656
194.47	4,927	12,705
194.48	4,935	12,755
194.49	4,943	12,804
194.50	4,952	12,854
194.51	4,960	12,903
194.52	4,968	12,953
194.53	4,976	13,003
194.54	4,984	13,052
194.55	4,992	13,102
194.56	5,000	13,152
194.57	5,008	13,202
194.58	5,016	13,252
194.59	5,024	13,303
194.60	5,032	13,353
194.61	5,040	13,403
194.62	5,049	13,454
194.63	5,057	13,504
194.64	5,065	13,555
194.65	5,073	13,605

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.66	5,081	13,656
194.67	5,089	13,707
194.68	5,097	13,758
194.69	5,105	13,809
194.70	5,113	13,860
194.71	5,121	13,911
194.72	5,129	13,963
194.73	5,138	14,014
194.74	5,146	14,065
194.75	5,154	14,117
194.76	5,162	14,168
194.77	5,170	14,220
194.78	5,178	14,272
194.79	5,186	14,324
194.80	5,194	14,375
194.81	5,202	14,427
194.82	5,210	14,480
194.83	5,218	14,532
194.84	5,227	14,584
194.85	5,235	14,636
194.86	5,243	14,689
194.87	5,251	14,741
194.88	5,259	14,794
194.89	5,267	14,846
194.90	5,275	14,899
194.91	5,283	14,952
194.92	5,291	15,005
194.93	5,299	15,058
194.94	5,307	15,111
194.95	5,316	15,164
194.96	5,324	15,217
194.97	5,332	15,270
194.98	5,340	15,324
194.99	5,348	15,377
195.00	5,356	15,431
195.01	5,386	15,484
195.02	5,417	15,538
195.03	5,447	15,593
195.04	5,477	15,647
195.05	5,507	15,702
195.06	5,538	15,757
195.07	5,568	15,813
195.08	5,598	15,869
195.09	5,629	15,925
195.10	5,659	15,981
195.11	5,689	16,038
195.12	5,719	16,095
195.13	5,750	16,152
195.14	5,780	16,210
195.15	5,810	16,268
195.16	5,840	16,326
195.17	5,871	16,385
195.18	5,901	16,444
195.19	5,931	16,503
195.20	5,962	16,562
195.21	5,992	16,622
195.22	6,022	16,682
195.23	6,052	16,742
195.24	6,083	16,803
195.25	**6,113**	**16,864**

Summary for Pond B-37A: Basin #37A

Inflow Area = 2.154 ac, 39.65% Impervious, Inflow Depth = 9.12" for Future 100 yr event
Inflow = 19.86 cfs @ 12.17 hrs, Volume= 1.637 af
Outflow = 12.73 cfs @ 12.29 hrs, Volume= 1.554 af, Atten= 36%, Lag= 7.0 min
Primary = 12.73 cfs @ 12.29 hrs, Volume= 1.554 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 197.94' @ 12.29 hrs Surf.Area= 5,853 sf Storage= 18,202 cf

Plug-Flow detention time= 142.2 min calculated for 1.554 af (95% of inflow)
Center-of-Mass det. time= 112.4 min (889.4 - 777.1)

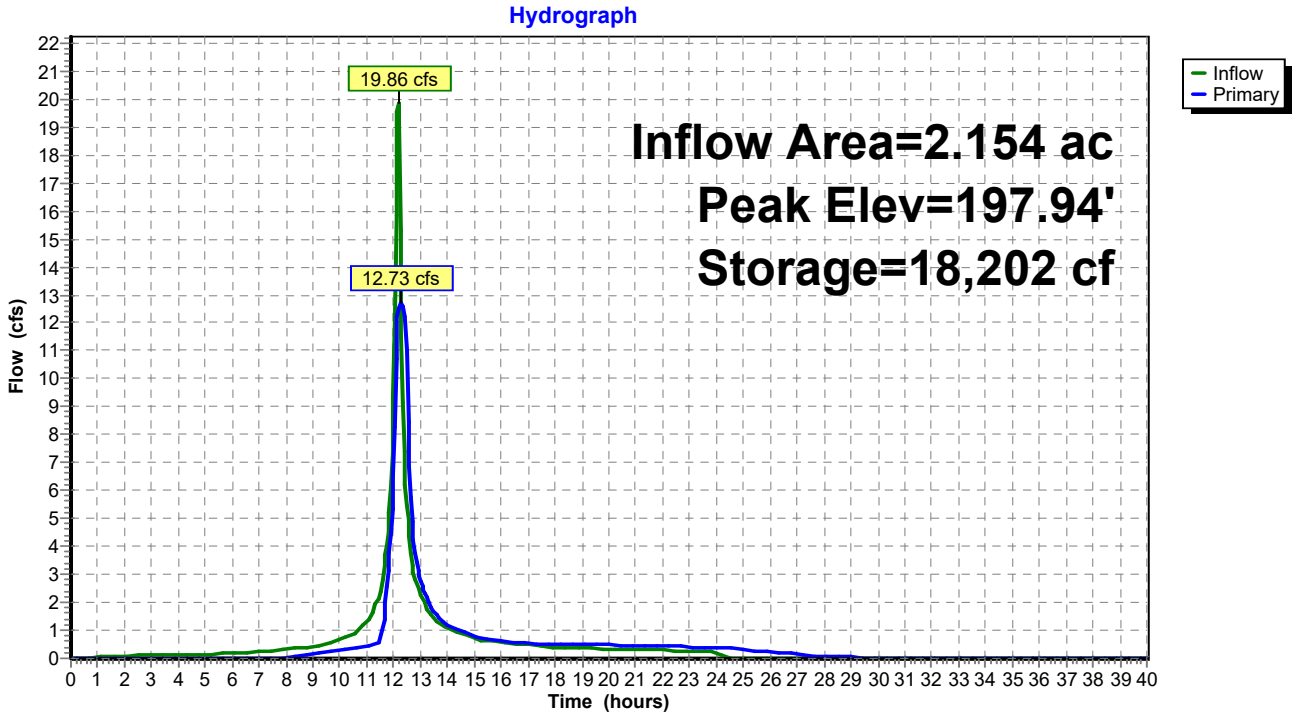
Volume	Invert	Avail.Storage	Storage Description
#1	193.30'	18,546 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
193.30	0	0	0
194.00	2,990	1,046	1,046
195.00	3,633	3,312	4,358
196.00	4,332	3,983	8,340
197.00	5,089	4,711	13,051
198.00	5,901	5,495	18,546

Device	Routing	Invert	Outlet Devices
#1	Primary	192.65'	**18.0" Round Culvert** L= 265.0' Ke= 0.500 Inlet / Outlet Invert= 192.65' / 191.33' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	194.77'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	196.48'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=12.72 cfs @ 12.29 hrs HW=197.93' (Free Discharge)
- **1=Culvert** (Barrel Controls 12.72 cfs @ 7.20 fps)
  - **2=Orifice/Grate** (Passes < 0.73 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 21.23 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-37A: Basin #37A



Stage-Discharge for Pond B-37A: Basin #37A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.30	0.00	193.82	0.00	194.34	0.00	194.86	0.02
193.31	0.00	193.83	0.00	194.35	0.00	194.87	0.02
193.32	0.00	193.84	0.00	194.36	0.00	194.88	0.03
193.33	0.00	193.85	0.00	194.37	0.00	194.89	0.03
193.34	0.00	193.86	0.00	194.38	0.00	194.90	0.04
193.35	0.00	193.87	0.00	194.39	0.00	194.91	0.04
193.36	0.00	193.88	0.00	194.40	0.00	194.92	0.05
193.37	0.00	193.89	0.00	194.41	0.00	194.93	0.06
193.38	0.00	193.90	0.00	194.42	0.00	194.94	0.06
193.39	0.00	193.91	0.00	194.43	0.00	194.95	0.07
193.40	0.00	193.92	0.00	194.44	0.00	194.96	0.08
193.41	0.00	193.93	0.00	194.45	0.00	194.97	0.08
193.42	0.00	193.94	0.00	194.46	0.00	194.98	0.09
193.43	0.00	193.95	0.00	194.47	0.00	194.99	0.10
193.44	0.00	193.96	0.00	194.48	0.00	195.00	0.10
193.45	0.00	193.97	0.00	194.49	0.00	195.01	0.11
193.46	0.00	193.98	0.00	194.50	0.00	195.02	0.12
193.47	0.00	193.99	0.00	194.51	0.00	195.03	0.13
193.48	0.00	194.00	0.00	194.52	0.00	195.04	0.13
193.49	0.00	194.01	0.00	194.53	0.00	195.05	0.14
193.50	0.00	194.02	0.00	194.54	0.00	195.06	0.15
193.51	0.00	194.03	0.00	194.55	0.00	195.07	0.15
193.52	0.00	194.04	0.00	194.56	0.00	195.08	0.16
193.53	0.00	194.05	0.00	194.57	0.00	195.09	0.17
193.54	0.00	194.06	0.00	194.58	0.00	195.10	0.17
193.55	0.00	194.07	0.00	194.59	0.00	195.11	0.17
193.56	0.00	194.08	0.00	194.60	0.00	195.12	0.18
193.57	0.00	194.09	0.00	194.61	0.00	195.13	0.18
193.58	0.00	194.10	0.00	194.62	0.00	195.14	0.19
193.59	0.00	194.11	0.00	194.63	0.00	195.15	0.19
193.60	0.00	194.12	0.00	194.64	0.00	195.16	0.20
193.61	0.00	194.13	0.00	194.65	0.00	195.17	0.20
193.62	0.00	194.14	0.00	194.66	0.00	195.18	0.21
193.63	0.00	194.15	0.00	194.67	0.00	195.19	0.21
193.64	0.00	194.16	0.00	194.68	0.00	195.20	0.22
193.65	0.00	194.17	0.00	194.69	0.00	195.21	0.22
193.66	0.00	194.18	0.00	194.70	0.00	195.22	0.22
193.67	0.00	194.19	0.00	194.71	0.00	195.23	0.23
193.68	0.00	194.20	0.00	194.72	0.00	195.24	0.23
193.69	0.00	194.21	0.00	194.73	0.00	195.25	0.24
193.70	0.00	194.22	0.00	194.74	0.00	195.26	0.24
193.71	0.00	194.23	0.00	194.75	0.00	195.27	0.24
193.72	0.00	194.24	0.00	194.76	0.00	195.28	0.25
193.73	0.00	194.25	0.00	194.77	0.00	195.29	0.25
193.74	0.00	194.26	0.00	194.78	0.00	195.30	0.25
193.75	0.00	194.27	0.00	194.79	0.00	195.31	0.26
193.76	0.00	194.28	0.00	194.80	0.00	195.32	0.26
193.77	0.00	194.29	0.00	194.81	0.00	195.33	0.26
193.78	0.00	194.30	0.00	194.82	0.01	195.34	0.27
193.79	0.00	194.31	0.00	194.83	0.01	195.35	0.27
193.80	0.00	194.32	0.00	194.84	0.01	195.36	0.27
193.81	0.00	194.33	0.00	194.85	0.02	195.37	0.28

Stage-Discharge for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.38	0.28	195.90	0.41	196.42	0.51	196.94	4.58
195.39	0.28	195.91	0.41	196.43	0.51	196.95	4.71
195.40	0.29	195.92	0.42	196.44	0.52	196.96	4.84
195.41	0.29	195.93	0.42	196.45	0.52	196.97	4.98
195.42	0.29	195.94	0.42	196.46	0.52	196.98	5.11
195.43	0.30	195.95	0.42	196.47	0.52	196.99	5.24
195.44	0.30	195.96	0.43	196.48	0.52	197.00	5.38
195.45	0.30	195.97	0.43	196.49	0.54	197.01	5.52
195.46	0.30	195.98	0.43	196.50	0.56	197.02	5.66
195.47	0.31	195.99	0.43	196.51	0.59	197.03	5.80
195.48	0.31	196.00	0.43	196.52	0.63	197.04	5.94
195.49	0.31	196.01	0.44	196.53	0.68	197.05	6.08
195.50	0.32	196.02	0.44	196.54	0.72	197.06	6.22
195.51	0.32	196.03	0.44	196.55	0.78	197.07	6.37
195.52	0.32	196.04	0.44	196.56	0.83	197.08	6.51
195.53	0.32	196.05	0.44	196.57	0.89	197.09	6.66
195.54	0.33	196.06	0.45	196.58	0.95	197.10	6.81
195.55	0.33	196.07	0.45	196.59	1.01	197.11	6.95
195.56	0.33	196.08	0.45	196.60	1.08	197.12	7.10
195.57	0.33	196.09	0.45	196.61	1.15	197.13	7.25
195.58	0.34	196.10	0.45	196.62	1.23	197.14	7.41
195.59	0.34	196.11	0.46	196.63	1.30	197.15	7.56
195.60	0.34	196.12	0.46	196.64	1.38	197.16	7.71
195.61	0.34	196.13	0.46	196.65	1.46	197.17	7.87
195.62	0.35	196.14	0.46	196.66	1.54	197.18	8.02
195.63	0.35	196.15	0.46	196.67	1.63	197.19	8.18
195.64	0.35	196.16	0.46	196.68	1.71	197.20	8.34
195.65	0.35	196.17	0.47	196.69	1.80	197.21	8.49
195.66	0.36	196.18	0.47	196.70	1.89	197.22	8.65
195.67	0.36	196.19	0.47	196.71	1.99	197.23	8.81
195.68	0.36	196.20	0.47	196.72	2.08	197.24	8.97
195.69	0.36	196.21	0.47	196.73	2.18	197.25	9.14
195.70	0.37	196.22	0.48	196.74	2.28	197.26	9.30
195.71	0.37	196.23	0.48	196.75	2.38	197.27	9.46
195.72	0.37	196.24	0.48	196.76	2.48	197.28	9.63
195.73	0.37	196.25	0.48	196.77	2.58	197.29	9.79
195.74	0.38	196.26	0.48	196.78	2.69	197.30	9.96
195.75	0.38	196.27	0.49	196.79	2.79	197.31	10.13
195.76	0.38	196.28	0.49	196.80	2.90	197.32	10.30
195.77	0.38	196.29	0.49	196.81	3.01	197.33	10.46
195.78	0.39	196.30	0.49	196.82	3.13	197.34	10.63
195.79	0.39	196.31	0.49	196.83	3.24	197.35	10.81
195.80	0.39	196.32	0.49	196.84	3.35	197.36	10.98
195.81	0.39	196.33	0.50	196.85	3.47	197.37	11.15
195.82	0.39	196.34	0.50	196.86	3.59	197.38	11.32
195.83	0.40	196.35	0.50	196.87	3.71	197.39	11.50
195.84	0.40	196.36	0.50	196.88	3.83	197.40	11.67
195.85	0.40	196.37	0.50	196.89	3.95	197.41	11.85
195.86	0.40	196.38	0.50	196.90	4.07	197.42	12.02
195.87	0.41	196.39	0.51	196.91	4.20	197.43	12.07
195.88	0.41	196.40	0.51	196.92	4.33	197.44	12.09
195.89	0.41	196.41	0.51	196.93	4.45	197.45	12.10

Stage-Discharge for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Primary (cfs)
197.46	12.11
197.47	12.13
197.48	12.14
197.49	12.15
197.50	12.17
197.51	12.18
197.52	12.19
197.53	12.20
197.54	12.22
197.55	12.23
197.56	12.24
197.57	12.26
197.58	12.27
197.59	12.28
197.60	12.29
197.61	12.31
197.62	12.32
197.63	12.33
197.64	12.35
197.65	12.36
197.66	12.37
197.67	12.38
197.68	12.40
197.69	12.41
197.70	12.42
197.71	12.44
197.72	12.45
197.73	12.46
197.74	12.47
197.75	12.49
197.76	12.50
197.77	12.51
197.78	12.52
197.79	12.54
197.80	12.55
197.81	12.56
197.82	12.57
197.83	12.59
197.84	12.60
197.85	12.61
197.86	12.63
197.87	12.64
197.88	12.65
197.89	12.66
197.90	12.68
197.91	12.69
197.92	12.70
197.93	12.71
197.94	12.73
197.95	12.74
197.96	12.87
197.97	13.09
197.98	13.38
197.99	13.73
198.00	**14.11**

Stage-Area-Storage for Pond B-37A: Basin #37A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.30	0	0
193.31	43	0
193.32	85	1
193.33	128	2
193.34	171	3
193.35	214	5
193.36	256	8
193.37	299	10
193.38	342	14
193.39	384	17
193.40	427	21
193.41	470	26
193.42	513	31
193.43	555	36
193.44	598	42
193.45	641	48
193.46	683	55
193.47	726	62
193.48	769	69
193.49	812	77
193.50	854	85
193.51	897	94
193.52	940	103
193.53	982	113
193.54	1,025	123
193.55	1,068	133
193.56	1,111	144
193.57	1,153	156
193.58	1,196	167
193.59	1,239	180
193.60	1,281	192
193.61	1,324	205
193.62	1,367	219
193.63	1,410	233
193.64	1,452	247
193.65	1,495	262
193.66	1,538	277
193.67	1,580	292
193.68	1,623	308
193.69	1,666	325
193.70	1,709	342
193.71	1,751	359
193.72	1,794	377
193.73	1,837	395
193.74	1,879	413
193.75	1,922	432
193.76	1,965	452
193.77	2,008	472
193.78	2,050	492
193.79	2,093	513
193.80	2,136	534
193.81	2,178	555
193.82	2,221	577
193.83	2,264	600
193.84	2,307	623
193.85	2,349	646
193.86	2,392	670
193.87	2,435	694
193.88	2,477	718
193.89	2,520	743
193.90	2,563	769
193.91	2,606	795
193.92	2,648	821
193.93	2,691	848
193.94	2,734	875
193.95	2,776	902
193.96	2,819	930
193.97	2,862	959
193.98	2,905	988
193.99	2,947	1,017
194.00	2,990	1,046
194.01	2,996	1,076
194.02	3,003	1,106
194.03	3,009	1,136
194.04	3,016	1,167
194.05	3,022	1,197
194.06	3,029	1,227
194.07	3,035	1,257
194.08	3,041	1,288
194.09	3,048	1,318
194.10	3,054	1,349
194.11	3,061	1,379
194.12	3,067	1,410
194.13	3,074	1,441
194.14	3,080	1,471
194.15	3,086	1,502
194.16	3,093	1,533
194.17	3,099	1,564
194.18	3,106	1,595
194.19	3,112	1,626
194.20	3,119	1,657
194.21	3,125	1,689
194.22	3,131	1,720
194.23	3,138	1,751
194.24	3,144	1,783
194.25	3,151	1,814
194.26	3,157	1,846
194.27	3,164	1,877
194.28	3,170	1,909
194.29	3,176	1,941
194.30	3,183	1,972
194.31	3,189	2,004
194.32	3,196	2,036
194.33	3,202	2,068

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.34	3,209	2,100
194.35	3,215	2,132
194.36	3,221	2,165
194.37	3,228	2,197
194.38	3,234	2,229
194.39	3,241	2,262
194.40	3,247	2,294
194.41	3,254	2,326
194.42	3,260	2,359
194.43	3,266	2,392
194.44	3,273	2,424
194.45	3,279	2,457
194.46	3,286	2,490
194.47	3,292	2,523
194.48	3,299	2,556
194.49	3,305	2,589
194.50	3,312	2,622
194.51	3,318	2,655
194.52	3,324	2,688
194.53	3,331	2,722
194.54	3,337	2,755
194.55	3,344	2,788
194.56	3,350	2,822
194.57	3,357	2,855
194.58	3,363	2,889
194.59	3,369	2,923
194.60	3,376	2,956
194.61	3,382	2,990
194.62	3,389	3,024
194.63	3,395	3,058
194.64	3,402	3,092
194.65	3,408	3,126
194.66	3,414	3,160
194.67	3,421	3,194
194.68	3,427	3,228
194.69	3,434	3,263
194.70	3,440	3,297
194.71	3,447	3,331
194.72	3,453	3,366
194.73	3,459	3,401
194.74	3,466	3,435
194.75	3,472	3,470
194.76	3,479	3,505
194.77	3,485	3,539
194.78	3,492	3,574
194.79	3,498	3,609
194.80	3,504	3,644
194.81	3,511	3,679
194.82	3,517	3,714
194.83	3,524	3,750
194.84	3,530	3,785
194.85	3,537	3,820
194.86	3,543	3,856
194.87	3,549	3,891
194.88	3,556	3,927
194.89	3,562	3,962
194.90	3,569	3,998
194.91	3,575	4,034
194.92	3,582	4,069
194.93	3,588	4,105
194.94	3,594	4,141
194.95	3,601	4,177
194.96	3,607	4,213
194.97	3,614	4,249
194.98	3,620	4,285
194.99	3,627	4,322
195.00	3,633	4,358
195.01	3,640	4,394
195.02	3,647	4,431
195.03	3,654	4,467
195.04	3,661	4,504
195.05	3,668	4,541
195.06	3,675	4,577
195.07	3,682	4,614
195.08	3,689	4,651
195.09	3,696	4,688
195.10	3,703	4,725
195.11	3,710	4,762
195.12	3,717	4,799
195.13	3,724	4,836
195.14	3,731	4,873
195.15	3,738	4,911
195.16	3,745	4,948
195.17	3,752	4,986
195.18	3,759	5,023
195.19	3,766	5,061
195.20	3,773	5,099
195.21	3,780	5,136
195.22	3,787	5,174
195.23	3,794	5,212
195.24	3,801	5,250
195.25	3,808	5,288
195.26	3,815	5,326
195.27	3,822	5,364
195.28	3,829	5,403
195.29	3,836	5,441
195.30	3,843	5,479
195.31	3,850	5,518
195.32	3,857	5,556
195.33	3,864	5,595
195.34	3,871	5,634
195.35	3,878	5,672
195.36	3,885	5,711
195.37	3,892	5,750

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.38	3,899	5,789
195.39	3,906	5,828
195.40	3,913	5,867
195.41	3,920	5,906
195.42	3,927	5,946
195.43	3,934	5,985
195.44	3,941	6,024
195.45	3,948	6,064
195.46	3,955	6,103
195.47	3,962	6,143
195.48	3,969	6,182
195.49	3,976	6,222
195.50	3,983	6,262
195.51	3,989	6,302
195.52	3,996	6,342
195.53	4,003	6,382
195.54	4,010	6,422
195.55	4,017	6,462
195.56	4,024	6,502
195.57	4,031	6,542
195.58	4,038	6,583
195.59	4,045	6,623
195.60	4,052	6,664
195.61	4,059	6,704
195.62	4,066	6,745
195.63	4,073	6,786
195.64	4,080	6,826
195.65	4,087	6,867
195.66	4,094	6,908
195.67	4,101	6,949
195.68	4,108	6,990
195.69	4,115	7,031
195.70	4,122	7,072
195.71	4,129	7,114
195.72	4,136	7,155
195.73	4,143	7,196
195.74	4,150	7,238
195.75	4,157	7,279
195.76	4,164	7,321
195.77	4,171	7,363
195.78	4,178	7,404
195.79	4,185	7,446
195.80	4,192	7,488
195.81	4,199	7,530
195.82	4,206	7,572
195.83	4,213	7,614
195.84	4,220	7,656
195.85	4,227	7,699
195.86	4,234	7,741
195.87	4,241	7,783
195.88	4,248	7,826
195.89	4,255	7,868
195.90	4,262	7,911
195.91	4,269	7,953
195.92	4,276	7,996
195.93	4,283	8,039
195.94	4,290	8,082
195.95	4,297	8,125
195.96	4,304	8,168
195.97	4,311	8,211
195.98	4,318	8,254
195.99	4,325	8,297
196.00	4,332	8,340
196.01	4,340	8,384
196.02	4,347	8,427
196.03	4,355	8,471
196.04	4,362	8,514
196.05	4,370	8,558
196.06	4,377	8,602
196.07	4,385	8,646
196.08	4,393	8,689
196.09	4,400	8,733
196.10	4,408	8,777
196.11	4,415	8,822
196.12	4,423	8,866
196.13	4,430	8,910
196.14	4,438	8,954
196.15	4,446	8,999
196.16	4,453	9,043
196.17	4,461	9,088
196.18	4,468	9,133
196.19	4,476	9,177
196.20	4,483	9,222
196.21	4,491	9,267
196.22	4,499	9,312
196.23	4,506	9,357
196.24	4,514	9,402
196.25	4,521	9,447
196.26	4,529	9,492
196.27	4,536	9,538
196.28	4,544	9,583
196.29	4,552	9,629
196.30	4,559	9,674
196.31	4,567	9,720
196.32	4,574	9,765
196.33	4,582	9,811
196.34	4,589	9,857
196.35	4,597	9,903
196.36	4,605	9,949
196.37	4,612	9,995
196.38	4,620	10,041
196.39	4,627	10,088
196.40	4,635	10,134
196.41	4,642	10,180

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.42	4,650	10,227	196.94	5,044	12,747
196.43	4,658	10,273	196.95	5,051	12,797
196.44	4,665	10,320	196.96	5,059	12,848
196.45	4,673	10,367	196.97	5,066	12,899
196.46	4,680	10,413	196.98	5,074	12,949
196.47	4,688	10,460	196.99	5,081	13,000
196.48	4,695	10,507	197.00	5,089	13,051
196.49	4,703	10,554	197.01	5,097	13,102
196.50	4,711	10,601	197.02	5,105	13,153
196.51	4,718	10,648	197.03	5,113	13,204
196.52	4,726	10,695	197.04	5,121	13,255
196.53	4,733	10,743	197.05	5,130	13,306
196.54	4,741	10,790	197.06	5,138	13,358
196.55	4,748	10,838	197.07	5,146	13,409
196.56	4,756	10,885	197.08	5,154	13,461
196.57	4,763	10,933	197.09	5,162	13,512
196.58	4,771	10,980	197.10	5,170	13,564
196.59	4,779	11,028	197.11	5,178	13,616
196.60	4,786	11,076	197.12	5,186	13,668
196.61	4,794	11,124	197.13	5,195	13,719
196.62	4,801	11,172	197.14	5,203	13,771
196.63	4,809	11,220	197.15	5,211	13,823
196.64	4,816	11,268	197.16	5,219	13,876
196.65	4,824	11,316	197.17	5,227	13,928
196.66	4,832	11,364	197.18	5,235	13,980
196.67	4,839	11,413	197.19	5,243	14,033
196.68	4,847	11,461	197.20	5,251	14,085
196.69	4,854	11,510	197.21	5,260	14,138
196.70	4,862	11,558	197.22	5,268	14,190
196.71	4,869	11,607	197.23	5,276	14,243
196.72	4,877	11,656	197.24	5,284	14,296
196.73	4,885	11,705	197.25	5,292	14,349
196.74	4,892	11,753	197.26	5,300	14,402
196.75	4,900	11,802	197.27	5,308	14,455
196.76	4,907	11,851	197.28	5,316	14,508
196.77	4,915	11,901	197.29	5,324	14,561
196.78	4,922	11,950	197.30	5,333	14,614
196.79	4,930	11,999	197.31	5,341	14,668
196.80	4,938	12,048	197.32	5,349	14,721
196.81	4,945	12,098	197.33	5,357	14,775
196.82	4,953	12,147	197.34	5,365	14,828
196.83	4,960	12,197	197.35	5,373	14,882
196.84	4,968	12,246	197.36	5,381	14,936
196.85	4,975	12,296	197.37	5,389	14,990
196.86	4,983	12,346	197.38	5,398	15,043
196.87	4,991	12,396	197.39	5,406	15,097
196.88	4,998	12,446	197.40	5,414	15,152
196.89	5,006	12,496	197.41	5,422	15,206
196.90	5,013	12,546	197.42	5,430	15,260
196.91	5,021	12,596	197.43	5,438	15,314
196.92	5,028	12,646	197.44	5,446	15,369
196.93	5,036	12,697	197.45	5,454	15,423

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.46	5,463	15,478
197.47	5,471	15,533
197.48	5,479	15,587
197.49	5,487	15,642
197.50	5,495	15,697
197.51	5,503	15,752
197.52	5,511	15,807
197.53	5,519	15,862
197.54	5,527	15,917
197.55	5,536	15,973
197.56	5,544	16,028
197.57	5,552	16,084
197.58	5,560	16,139
197.59	5,568	16,195
197.60	5,576	16,251
197.61	5,584	16,306
197.62	5,592	16,362
197.63	5,601	16,418
197.64	5,609	16,474
197.65	5,617	16,530
197.66	5,625	16,587
197.67	5,633	16,643
197.68	5,641	16,699
197.69	5,649	16,756
197.70	5,657	16,812
197.71	5,666	16,869
197.72	5,674	16,926
197.73	5,682	16,982
197.74	5,690	17,039
197.75	5,698	17,096
197.76	5,706	17,153
197.77	5,714	17,210
197.78	5,722	17,267
197.79	5,730	17,325
197.80	5,739	17,382
197.81	5,747	17,439
197.82	5,755	17,497
197.83	5,763	17,555
197.84	5,771	17,612
197.85	5,779	17,670
197.86	5,787	17,728
197.87	5,795	17,786
197.88	5,804	17,844
197.89	5,812	17,902
197.90	5,820	17,960
197.91	5,828	18,018
197.92	5,836	18,077
197.93	5,844	18,135
197.94	5,852	18,193
197.95	5,860	18,252
197.96	5,869	18,311
197.97	5,877	18,369
197.98	5,885	18,428
197.99	5,893	18,487
198.00	**5,901**	**18,546**

Summary for Pond B-37B: Basin #37B

Inflow Area = 2.179 ac, 53.42% Impervious, Inflow Depth = 9.55" for Future 100 yr event
Inflow = 20.61 cfs @ 12.17 hrs, Volume= 1.734 af
Outflow = 12.95 cfs @ 12.30 hrs, Volume= 1.592 af, Atten= 37%, Lag= 7.7 min
Primary = 12.95 cfs @ 12.30 hrs, Volume= 1.592 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 197.96' @ 12.29 hrs Surf.Area= 8,061 sf Storage= 24,332 cf

Plug-Flow detention time= 241.7 min calculated for 1.592 af (92% of inflow)
Center-of-Mass det. time= 197.0 min (964.8 - 767.8)

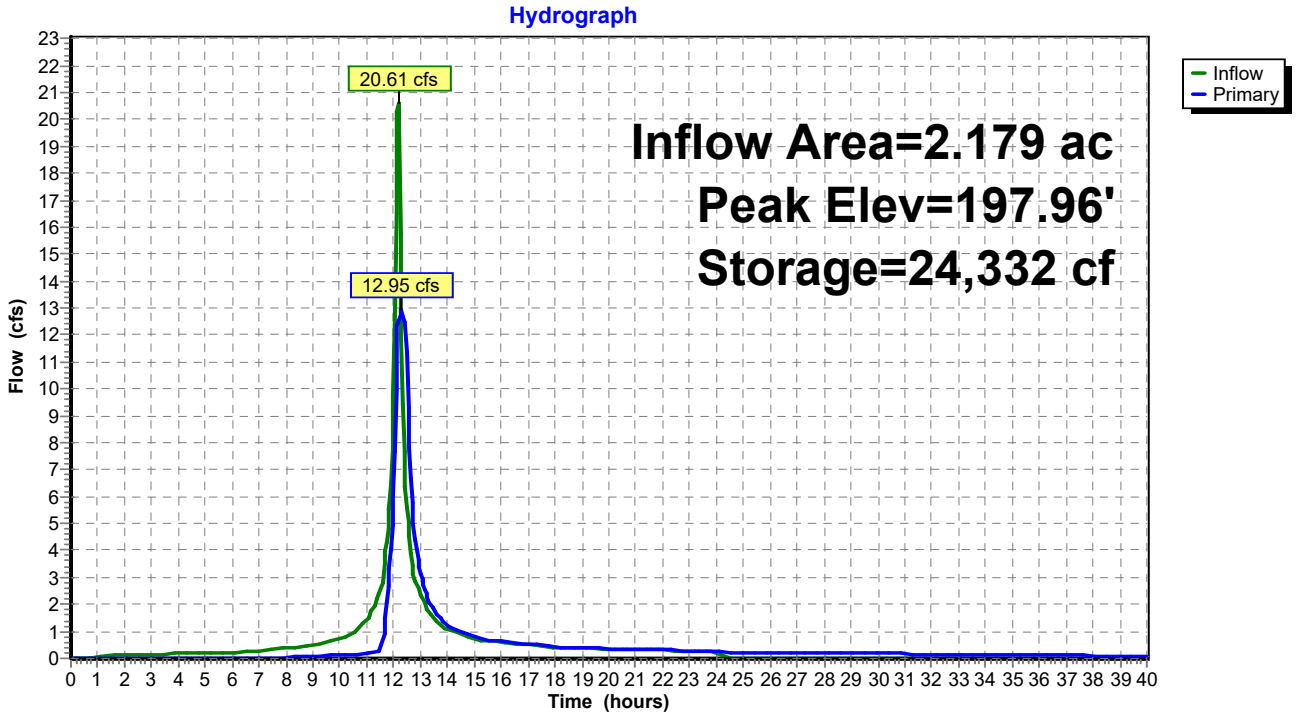
Volume	Invert	Avail.Storage	Storage Description
#1	193.30'	24,651 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
193.30	0	0	0
194.00	3,709	1,298	1,298
195.00	4,724	4,217	5,515
196.00	5,796	5,260	10,775
197.00	6,924	6,360	17,135
198.00	8,108	7,516	24,651

Device	Routing	Invert	Outlet Devices
#1	Primary	192.65'	**18.0" Round Culvert** L= 265.0' Ke= 0.500 Inlet / Outlet Invert= 192.65' / 191.33' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	194.81'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	196.63'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=12.85 cfs @ 12.30 hrs HW=197.96' (Free Discharge)
- **1=Culvert** (Barrel Controls 12.75 cfs @ 7.21 fps)
  - **2=Orifice/Grate** (Passes < 0.29 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 18.70 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Weir Controls 0.10 cfs @ 0.22 fps)

Pond B-37B: Basin #37B



Stage-Discharge for Pond B-37B: Basin #37B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.30	0.00	193.82	0.00	194.34	0.00	194.86	0.00
193.31	0.00	193.83	0.00	194.35	0.00	194.87	0.01
193.32	0.00	193.84	0.00	194.36	0.00	194.88	0.01
193.33	0.00	193.85	0.00	194.37	0.00	194.89	0.01
193.34	0.00	193.86	0.00	194.38	0.00	194.90	0.01
193.35	0.00	193.87	0.00	194.39	0.00	194.91	0.02
193.36	0.00	193.88	0.00	194.40	0.00	194.92	0.02
193.37	0.00	193.89	0.00	194.41	0.00	194.93	0.02
193.38	0.00	193.90	0.00	194.42	0.00	194.94	0.03
193.39	0.00	193.91	0.00	194.43	0.00	194.95	0.03
193.40	0.00	193.92	0.00	194.44	0.00	194.96	0.03
193.41	0.00	193.93	0.00	194.45	0.00	194.97	0.04
193.42	0.00	193.94	0.00	194.46	0.00	194.98	0.04
193.43	0.00	193.95	0.00	194.47	0.00	194.99	0.05
193.44	0.00	193.96	0.00	194.48	0.00	195.00	0.05
193.45	0.00	193.97	0.00	194.49	0.00	195.01	0.05
193.46	0.00	193.98	0.00	194.50	0.00	195.02	0.05
193.47	0.00	193.99	0.00	194.51	0.00	195.03	0.06
193.48	0.00	194.00	0.00	194.52	0.00	195.04	0.06
193.49	0.00	194.01	0.00	194.53	0.00	195.05	0.06
193.50	0.00	194.02	0.00	194.54	0.00	195.06	0.06
193.51	0.00	194.03	0.00	194.55	0.00	195.07	0.06
193.52	0.00	194.04	0.00	194.56	0.00	195.08	0.07
193.53	0.00	194.05	0.00	194.57	0.00	195.09	0.07
193.54	0.00	194.06	0.00	194.58	0.00	195.10	0.07
193.55	0.00	194.07	0.00	194.59	0.00	195.11	0.07
193.56	0.00	194.08	0.00	194.60	0.00	195.12	0.07
193.57	0.00	194.09	0.00	194.61	0.00	195.13	0.08
193.58	0.00	194.10	0.00	194.62	0.00	195.14	0.08
193.59	0.00	194.11	0.00	194.63	0.00	195.15	0.08
193.60	0.00	194.12	0.00	194.64	0.00	195.16	0.08
193.61	0.00	194.13	0.00	194.65	0.00	195.17	0.08
193.62	0.00	194.14	0.00	194.66	0.00	195.18	0.08
193.63	0.00	194.15	0.00	194.67	0.00	195.19	0.09
193.64	0.00	194.16	0.00	194.68	0.00	195.20	0.09
193.65	0.00	194.17	0.00	194.69	0.00	195.21	0.09
193.66	0.00	194.18	0.00	194.70	0.00	195.22	0.09
193.67	0.00	194.19	0.00	194.71	0.00	195.23	0.09
193.68	0.00	194.20	0.00	194.72	0.00	195.24	0.09
193.69	0.00	194.21	0.00	194.73	0.00	195.25	0.10
193.70	0.00	194.22	0.00	194.74	0.00	195.26	0.10
193.71	0.00	194.23	0.00	194.75	0.00	195.27	0.10
193.72	0.00	194.24	0.00	194.76	0.00	195.28	0.10
193.73	0.00	194.25	0.00	194.77	0.00	195.29	0.10
193.74	0.00	194.26	0.00	194.78	0.00	195.30	0.10
193.75	0.00	194.27	0.00	194.79	0.00	195.31	0.10
193.76	0.00	194.28	0.00	194.80	0.00	195.32	0.10
193.77	0.00	194.29	0.00	194.81	0.00	195.33	0.11
193.78	0.00	194.30	0.00	194.82	0.00	195.34	0.11
193.79	0.00	194.31	0.00	194.83	0.00	195.35	0.11
193.80	0.00	194.32	0.00	194.84	0.00	195.36	0.11
193.81	0.00	194.33	0.00	194.85	0.00	195.37	0.11

Stage-Discharge for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.38	0.11	195.90	0.16	196.42	0.20	196.94	2.46
195.39	0.11	195.91	0.16	196.43	0.20	196.95	2.56
195.40	0.11	195.92	0.16	196.44	0.20	196.96	2.67
195.41	0.12	195.93	0.17	196.45	0.20	196.97	2.78
195.42	0.12	195.94	0.17	196.46	0.20	196.98	2.90
195.43	0.12	195.95	0.17	196.47	0.20	196.99	3.01
195.44	0.12	195.96	0.17	196.48	0.21	197.00	3.13
195.45	0.12	195.97	0.17	196.49	0.21	197.01	3.24
195.46	0.12	195.98	0.17	196.50	0.21	197.02	3.36
195.47	0.12	195.99	0.17	196.51	0.21	197.03	3.48
195.48	0.12	196.00	0.17	196.52	0.21	197.04	3.60
195.49	0.12	196.01	0.17	196.53	0.21	197.05	3.73
195.50	0.13	196.02	0.17	196.54	0.21	197.06	3.85
195.51	0.13	196.03	0.17	196.55	0.21	197.07	3.97
195.52	0.13	196.04	0.17	196.56	0.21	197.08	4.10
195.53	0.13	196.05	0.17	196.57	0.21	197.09	4.23
195.54	0.13	196.06	0.18	196.58	0.21	197.10	4.36
195.55	0.13	196.07	0.18	196.59	0.21	197.11	4.49
195.56	0.13	196.08	0.18	196.60	0.21	197.12	4.62
195.57	0.13	196.09	0.18	196.61	0.21	197.13	4.75
195.58	0.13	196.10	0.18	196.62	0.21	197.14	4.89
195.59	0.13	196.11	0.18	196.63	0.22	197.15	5.02
195.60	0.14	196.12	0.18	196.64	0.23	197.16	5.16
195.61	0.14	196.13	0.18	196.65	0.25	197.17	5.30
195.62	0.14	196.14	0.18	196.66	0.28	197.18	5.44
195.63	0.14	196.15	0.18	196.67	0.32	197.19	5.58
195.64	0.14	196.16	0.18	196.68	0.36	197.20	5.72
195.65	0.14	196.17	0.18	196.69	0.41	197.21	5.86
195.66	0.14	196.18	0.18	196.70	0.46	197.22	6.00
195.67	0.14	196.19	0.19	196.71	0.51	197.23	6.15
195.68	0.14	196.20	0.19	196.72	0.57	197.24	6.29
195.69	0.14	196.21	0.19	196.73	0.63	197.25	6.44
195.70	0.15	196.22	0.19	196.74	0.70	197.26	6.59
195.71	0.15	196.23	0.19	196.75	0.76	197.27	6.73
195.72	0.15	196.24	0.19	196.76	0.83	197.28	6.88
195.73	0.15	196.25	0.19	196.77	0.90	197.29	7.03
195.74	0.15	196.26	0.19	196.78	0.98	197.30	7.19
195.75	0.15	196.27	0.19	196.79	1.06	197.31	7.34
195.76	0.15	196.28	0.19	196.80	1.13	197.32	7.49
195.77	0.15	196.29	0.19	196.81	1.22	197.33	7.65
195.78	0.15	196.30	0.19	196.82	1.30	197.34	7.80
195.79	0.15	196.31	0.19	196.83	1.39	197.35	7.96
195.80	0.15	196.32	0.19	196.84	1.47	197.36	8.12
195.81	0.16	196.33	0.20	196.85	1.56	197.37	8.28
195.82	0.16	196.34	0.20	196.86	1.66	197.38	8.43
195.83	0.16	196.35	0.20	196.87	1.75	197.39	8.60
195.84	0.16	196.36	0.20	196.88	1.84	197.40	8.76
195.85	0.16	196.37	0.20	196.89	1.94	197.41	8.92
195.86	0.16	196.38	0.20	196.90	2.04	197.42	9.08
195.87	0.16	196.39	0.20	196.91	2.14	197.43	9.25
195.88	0.16	196.40	0.20	196.92	2.25	197.44	9.41
195.89	0.16	196.41	0.20	196.93	2.35	197.45	9.58

Stage-Discharge for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Primary (cfs)
197.46	9.74
197.47	9.91
197.48	10.08
197.49	10.25
197.50	10.42
197.51	10.59
197.52	10.76
197.53	10.93
197.54	11.10
197.55	11.28
197.56	11.45
197.57	11.63
197.58	11.80
197.59	11.98
197.60	12.16
197.61	12.31
197.62	12.32
197.63	12.33
197.64	12.35
197.65	12.36
197.66	12.37
197.67	12.38
197.68	12.40
197.69	12.41
197.70	12.42
197.71	12.44
197.72	12.45
197.73	12.46
197.74	12.47
197.75	12.49
197.76	12.50
197.77	12.51
197.78	12.52
197.79	12.54
197.80	12.55
197.81	12.56
197.82	12.57
197.83	12.59
197.84	12.60
197.85	12.61
197.86	12.63
197.87	12.64
197.88	12.65
197.89	12.66
197.90	12.68
197.91	12.69
197.92	12.70
197.93	12.71
197.94	12.73
197.95	12.74
197.96	12.87
197.97	13.09
197.98	13.38
197.99	13.73
198.00	**14.11**

Stage-Area-Storage for Pond B-37B: Basin #37B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.30	0	0
193.31	53	0
193.32	106	1
193.33	159	2
193.34	212	4
193.35	265	7
193.36	318	10
193.37	371	13
193.38	424	17
193.39	477	21
193.40	530	26
193.41	583	32
193.42	636	38
193.43	689	45
193.44	742	52
193.45	795	60
193.46	848	68
193.47	901	77
193.48	954	86
193.49	1,007	96
193.50	1,060	106
193.51	1,113	117
193.52	1,166	128
193.53	1,219	140
193.54	1,272	153
193.55	1,325	166
193.56	1,378	179
193.57	1,431	193
193.58	1,484	208
193.59	1,537	223
193.60	1,590	238
193.61	1,643	255
193.62	1,696	271
193.63	1,749	289
193.64	1,802	306
193.65	1,855	325
193.66	1,907	343
193.67	1,960	363
193.68	2,013	383
193.69	2,066	403
193.70	2,119	424
193.71	2,172	445
193.72	2,225	467
193.73	2,278	490
193.74	2,331	513
193.75	2,384	536
193.76	2,437	561
193.77	2,490	585
193.78	2,543	610
193.79	2,596	636
193.80	2,649	662
193.81	2,702	689
193.82	2,755	716
193.83	2,808	744
193.84	2,861	773
193.85	2,914	801
193.86	2,967	831
193.87	3,020	861
193.88	3,073	891
193.89	3,126	922
193.90	3,179	954
193.91	3,232	986
193.92	3,285	1,018
193.93	3,338	1,052
193.94	3,391	1,085
193.95	3,444	1,119
193.96	3,497	1,154
193.97	3,550	1,189
193.98	3,603	1,225
193.99	3,656	1,261
194.00	3,709	1,298
194.01	3,719	1,335
194.02	3,729	1,373
194.03	3,739	1,410
194.04	3,750	1,447
194.05	3,760	1,485
194.06	3,770	1,523
194.07	3,780	1,560
194.08	3,790	1,598
194.09	3,800	1,636
194.10	3,811	1,674
194.11	3,821	1,712
194.12	3,831	1,751
194.13	3,841	1,789
194.14	3,851	1,827
194.15	3,861	1,866
194.16	3,871	1,905
194.17	3,882	1,943
194.18	3,892	1,982
194.19	3,902	2,021
194.20	3,912	2,060
194.21	3,922	2,099
194.22	3,932	2,139
194.23	3,942	2,178
194.24	3,953	2,218
194.25	3,963	2,257
194.26	3,973	2,297
194.27	3,983	2,337
194.28	3,993	2,376
194.29	4,003	2,416
194.30	4,014	2,457
194.31	4,024	2,497
194.32	4,034	2,537
194.33	4,044	2,577

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.34	4,054	2,618
194.35	4,064	2,658
194.36	4,074	2,699
194.37	4,085	2,740
194.38	4,095	2,781
194.39	4,105	2,822
194.40	4,115	2,863
194.41	4,125	2,904
194.42	4,135	2,945
194.43	4,145	2,987
194.44	4,156	3,028
194.45	4,166	3,070
194.46	4,176	3,112
194.47	4,186	3,153
194.48	4,196	3,195
194.49	4,206	3,237
194.50	4,217	3,280
194.51	4,227	3,322
194.52	4,237	3,364
194.53	4,247	3,406
194.54	4,257	3,449
194.55	4,267	3,492
194.56	4,277	3,534
194.57	4,288	3,577
194.58	4,298	3,620
194.59	4,308	3,663
194.60	4,318	3,706
194.61	4,328	3,749
194.62	4,338	3,793
194.63	4,348	3,836
194.64	4,359	3,880
194.65	4,369	3,923
194.66	4,379	3,967
194.67	4,389	4,011
194.68	4,399	4,055
194.69	4,409	4,099
194.70	4,420	4,143
194.71	4,430	4,187
194.72	4,440	4,232
194.73	4,450	4,276
194.74	4,460	4,321
194.75	4,470	4,365
194.76	4,480	4,410
194.77	4,491	4,455
194.78	4,501	4,500
194.79	4,511	4,545
194.80	4,521	4,590
194.81	4,531	4,635
194.82	4,541	4,681
194.83	4,551	4,726
194.84	4,562	4,772
194.85	4,572	4,817
194.86	4,582	4,863
194.87	4,592	4,909
194.88	4,602	4,955
194.89	4,612	5,001
194.90	4,623	5,047
194.91	4,633	5,094
194.92	4,643	5,140
194.93	4,653	5,186
194.94	4,663	5,233
194.95	4,673	5,280
194.96	4,683	5,327
194.97	4,694	5,373
194.98	4,704	5,420
194.99	4,714	5,467
195.00	4,724	5,515
195.01	4,735	5,562
195.02	4,745	5,609
195.03	4,756	5,657
195.04	4,767	5,704
195.05	4,778	5,752
195.06	4,788	5,800
195.07	4,799	5,848
195.08	4,810	5,896
195.09	4,820	5,944
195.10	4,831	5,992
195.11	4,842	6,041
195.12	4,853	6,089
195.13	4,863	6,138
195.14	4,874	6,187
195.15	4,885	6,235
195.16	4,896	6,284
195.17	4,906	6,333
195.18	4,917	6,382
195.19	4,928	6,432
195.20	4,938	6,481
195.21	4,949	6,530
195.22	4,960	6,580
195.23	4,971	6,630
195.24	4,981	6,679
195.25	4,992	6,729
195.26	5,003	6,779
195.27	5,013	6,829
195.28	5,024	6,879
195.29	5,035	6,930
195.30	5,046	6,980
195.31	5,056	7,031
195.32	5,067	7,081
195.33	5,078	7,132
195.34	5,088	7,183
195.35	5,099	7,234
195.36	5,110	7,285
195.37	5,121	7,336

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.38	5,131	7,387	195.90	5,689	10,200
195.39	5,142	7,439	195.91	5,700	10,257
195.40	5,153	7,490	195.92	5,710	10,314
195.41	5,164	7,542	195.93	5,721	10,372
195.42	5,174	7,593	195.94	5,732	10,429
195.43	5,185	7,645	195.95	5,742	10,486
195.44	5,196	7,697	195.96	5,753	10,544
195.45	5,206	7,749	195.97	5,764	10,601
195.46	5,217	7,801	195.98	5,775	10,659
195.47	5,228	7,853	195.99	5,785	10,717
195.48	5,239	7,906	196.00	5,796	10,775
195.49	5,249	7,958	196.01	5,807	10,833
195.50	5,260	8,011	196.02	5,819	10,891
195.51	5,271	8,063	196.03	5,830	10,949
195.52	5,281	8,116	196.04	5,841	11,007
195.53	5,292	8,169	196.05	5,852	11,066
195.54	5,303	8,222	196.06	5,864	11,124
195.55	5,314	8,275	196.07	5,875	11,183
195.56	5,324	8,328	196.08	5,886	11,242
195.57	5,335	8,381	196.09	5,898	11,301
195.58	5,346	8,435	196.10	5,909	11,360
195.59	5,356	8,488	196.11	5,920	11,419
195.60	5,367	8,542	196.12	5,931	11,478
195.61	5,378	8,596	196.13	5,943	11,538
195.62	5,389	8,650	196.14	5,954	11,597
195.63	5,399	8,704	196.15	5,965	11,657
195.64	5,410	8,758	196.16	5,976	11,716
195.65	5,421	8,812	196.17	5,988	11,776
195.66	5,432	8,866	196.18	5,999	11,836
195.67	5,442	8,920	196.19	6,010	11,896
195.68	5,453	8,975	196.20	6,022	11,956
195.69	5,464	9,029	196.21	6,033	12,017
195.70	5,474	9,084	196.22	6,044	12,077
195.71	5,485	9,139	196.23	6,055	12,138
195.72	5,496	9,194	196.24	6,067	12,198
195.73	5,507	9,249	196.25	6,078	12,259
195.74	5,517	9,304	196.26	6,089	12,320
195.75	5,528	9,359	196.27	6,101	12,381
195.76	5,539	9,414	196.28	6,112	12,442
195.77	5,549	9,470	196.29	6,123	12,503
195.78	5,560	9,525	196.30	6,134	12,564
195.79	5,571	9,581	196.31	6,146	12,626
195.80	5,582	9,637	196.32	6,157	12,687
195.81	5,592	9,693	196.33	6,168	12,749
195.82	5,603	9,749	196.34	6,180	12,810
195.83	5,614	9,805	196.35	6,191	12,872
195.84	5,624	9,861	196.36	6,202	12,934
195.85	5,635	9,917	196.37	6,213	12,996
195.86	5,646	9,974	196.38	6,225	13,059
195.87	5,657	10,030	196.39	6,236	13,121
195.88	5,667	10,087	196.40	6,247	13,183
195.89	5,678	10,144	196.41	6,258	13,246

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.42	6,270	13,308	196.94	6,856	16,721
196.43	6,281	13,371	196.95	6,868	16,790
196.44	6,292	13,434	196.96	6,879	16,859
196.45	6,304	13,497	196.97	6,890	16,927
196.46	6,315	13,560	196.98	6,901	16,996
196.47	6,326	13,623	196.99	6,913	17,065
196.48	6,337	13,687	197.00	6,924	17,135
196.49	6,349	13,750	197.01	6,936	17,204
196.50	6,360	13,814	197.02	6,948	17,273
196.51	6,371	13,877	197.03	6,960	17,343
196.52	6,383	13,941	197.04	6,971	17,413
196.53	6,394	14,005	197.05	6,983	17,482
196.54	6,405	14,069	197.06	6,995	17,552
196.55	6,416	14,133	197.07	7,007	17,622
196.56	6,428	14,197	197.08	7,019	17,692
196.57	6,439	14,262	197.09	7,031	17,763
196.58	6,450	14,326	197.10	7,042	17,833
196.59	6,462	14,391	197.11	7,054	17,903
196.60	6,473	14,455	197.12	7,066	17,974
196.61	6,484	14,520	197.13	7,078	18,045
196.62	6,495	14,585	197.14	7,090	18,116
196.63	6,507	14,650	197.15	7,102	18,187
196.64	6,518	14,715	197.16	7,113	18,258
196.65	6,529	14,780	197.17	7,125	18,329
196.66	6,540	14,846	197.18	7,137	18,400
196.67	6,552	14,911	197.19	7,149	18,472
196.68	6,563	14,977	197.20	7,161	18,543
196.69	6,574	15,042	197.21	7,173	18,615
196.70	6,586	15,108	197.22	7,184	18,687
196.71	6,597	15,174	197.23	7,196	18,758
196.72	6,608	15,240	197.24	7,208	18,831
196.73	6,619	15,306	197.25	7,220	18,903
196.74	6,631	15,373	197.26	7,232	18,975
196.75	6,642	15,439	197.27	7,244	19,047
196.76	6,653	15,505	197.28	7,256	19,120
196.77	6,665	15,572	197.29	7,267	19,192
196.78	6,676	15,639	197.30	7,279	19,265
196.79	6,687	15,705	197.31	7,291	19,338
196.80	6,698	15,772	197.32	7,303	19,411
196.81	6,710	15,839	197.33	7,315	19,484
196.82	6,721	15,907	197.34	7,327	19,557
196.83	6,732	15,974	197.35	7,338	19,631
196.84	6,744	16,041	197.36	7,350	19,704
196.85	6,755	16,109	197.37	7,362	19,778
196.86	6,766	16,176	197.38	7,374	19,851
196.87	6,777	16,244	197.39	7,386	19,925
196.88	6,789	16,312	197.40	7,398	19,999
196.89	6,800	16,380	197.41	7,409	20,073
196.90	6,811	16,448	197.42	7,421	20,147
196.91	6,822	16,516	197.43	7,433	20,221
196.92	6,834	16,584	197.44	7,445	20,296
196.93	6,845	16,653	197.45	7,457	20,370

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.46	7,469	20,445
197.47	7,480	20,520
197.48	7,492	20,595
197.49	7,504	20,670
197.50	7,516	20,745
197.51	7,528	20,820
197.52	7,540	20,895
197.53	7,552	20,971
197.54	7,563	21,046
197.55	7,575	21,122
197.56	7,587	21,198
197.57	7,599	21,274
197.58	7,611	21,350
197.59	7,623	21,426
197.60	7,634	21,502
197.61	7,646	21,579
197.62	7,658	21,655
197.63	7,670	21,732
197.64	7,682	21,808
197.65	7,694	21,885
197.66	7,705	21,962
197.67	7,717	22,039
197.68	7,729	22,117
197.69	7,741	22,194
197.70	7,753	22,272
197.71	7,765	22,349
197.72	7,776	22,427
197.73	7,788	22,505
197.74	7,800	22,583
197.75	7,812	22,661
197.76	7,824	22,739
197.77	7,836	22,817
197.78	7,848	22,896
197.79	7,859	22,974
197.80	7,871	23,053
197.81	7,883	23,132
197.82	7,895	23,210
197.83	7,907	23,289
197.84	7,919	23,369
197.85	7,930	23,448
197.86	7,942	23,527
197.87	7,954	23,607
197.88	7,966	23,686
197.89	7,978	23,766
197.90	7,990	23,846
197.91	8,001	23,926
197.92	8,013	24,006
197.93	8,025	24,086
197.94	8,037	24,166
197.95	8,049	24,247
197.96	8,061	24,327
197.97	8,072	24,408
197.98	8,084	24,489
197.99	8,096	24,570
198.00	**8,108**	**24,651**

Summary for Pond B-38: Basin #38

Inflow Area = 2.114 ac, 34.96% Impervious, Inflow Depth = 8.98" for Future 100 yr event
Inflow = 19.32 cfs @ 12.17 hrs, Volume= 1.581 af
Outflow = 14.23 cfs @ 12.26 hrs, Volume= 1.478 af, Atten= 26%, Lag= 5.4 min
Primary = 14.23 cfs @ 12.26 hrs, Volume= 1.478 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 207.85' @ 12.26 hrs Surf.Area= 7,725 sf Storage= 19,930 cf

Plug-Flow detention time= 211.7 min calculated for 1.478 af (94% of inflow)
Center-of-Mass det. time= 175.1 min (955.5 - 780.4)

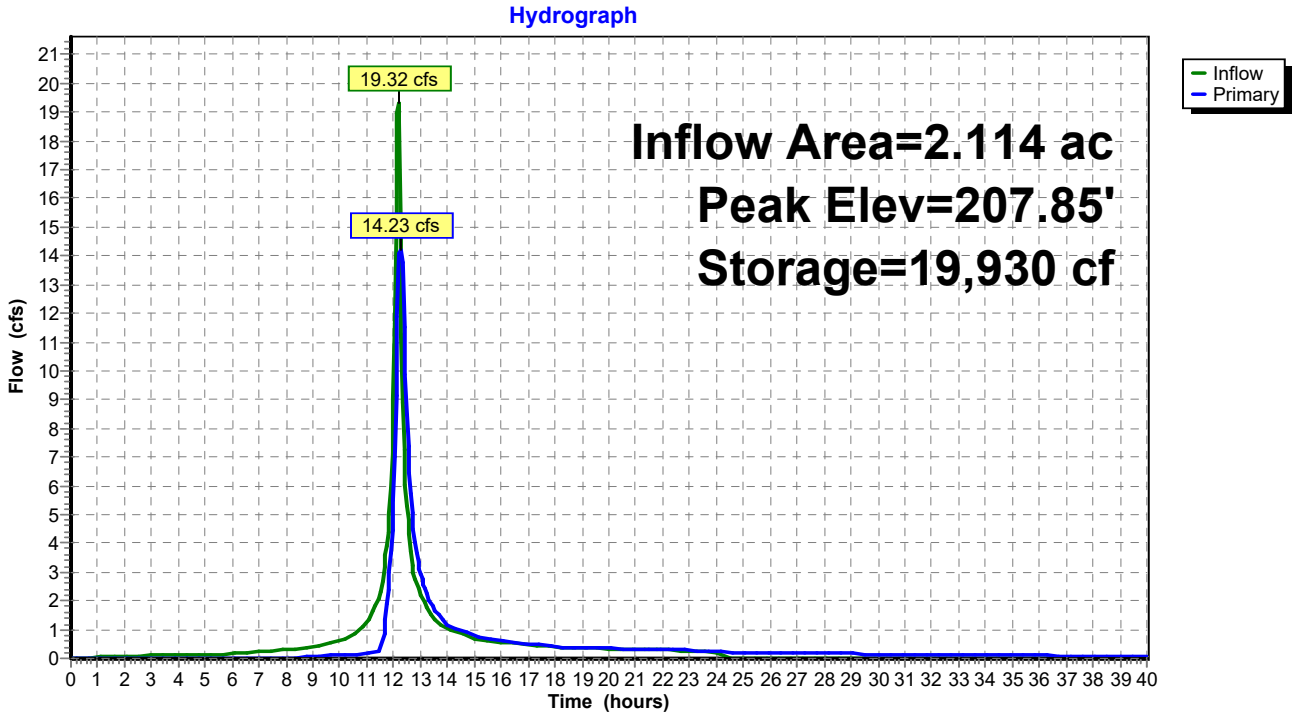
Volume	Invert	Avail.Storage	Storage Description
#1	204.30'	29,525 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
204.30	0	0	0
205.00	5,096	1,784	1,784
206.00	5,966	5,531	7,315
207.00	6,893	6,430	13,744
208.00	7,876	7,385	21,129
209.00	8,916	8,396	29,525

Device	Routing	Invert	Outlet Devices
#1	Primary	204.30'	**18.0" Round Culvert** L= 33.0' Ke= 0.500 Inlet / Outlet Invert= 204.30' / 204.13' S= 0.0052 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	205.26'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	206.69'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	208.25'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=14.21 cfs @ 12.26 hrs HW=207.84' (Free Discharge)
- **1=Culvert** (Inlet Controls 14.21 cfs @ 8.04 fps)
  - **2=Orifice/Grate** (Passes < 0.26 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 15.19 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-38: Basin #38



Stage-Discharge for Pond B-38: Basin #38

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.30	0.00	204.82	0.00	205.34	0.01	205.86	0.12
204.31	0.00	204.83	0.00	205.35	0.01	205.87	0.12
204.32	0.00	204.84	0.00	205.36	0.02	205.88	0.12
204.33	0.00	204.85	0.00	205.37	0.02	205.89	0.12
204.34	0.00	204.86	0.00	205.38	0.02	205.90	0.12
204.35	0.00	204.87	0.00	205.39	0.03	205.91	0.12
204.36	0.00	204.88	0.00	205.40	0.03	205.92	0.12
204.37	0.00	204.89	0.00	205.41	0.03	205.93	0.12
204.38	0.00	204.90	0.00	205.42	0.04	205.94	0.12
204.39	0.00	204.91	0.00	205.43	0.04	205.95	0.13
204.40	0.00	204.92	0.00	205.44	0.05	205.96	0.13
204.41	0.00	204.93	0.00	205.45	0.05	205.97	0.13
204.42	0.00	204.94	0.00	205.46	0.05	205.98	0.13
204.43	0.00	204.95	0.00	205.47	0.05	205.99	0.13
204.44	0.00	204.96	0.00	205.48	0.06	206.00	0.13
204.45	0.00	204.97	0.00	205.49	0.06	206.01	0.13
204.46	0.00	204.98	0.00	205.50	0.06	206.02	0.13
204.47	0.00	204.99	0.00	205.51	0.06	206.03	0.13
204.48	0.00	205.00	0.00	205.52	0.06	206.04	0.13
204.49	0.00	205.01	0.00	205.53	0.07	206.05	0.14
204.50	0.00	205.02	0.00	205.54	0.07	206.06	0.14
204.51	0.00	205.03	0.00	205.55	0.07	206.07	0.14
204.52	0.00	205.04	0.00	205.56	0.07	206.08	0.14
204.53	0.00	205.05	0.00	205.57	0.07	206.09	0.14
204.54	0.00	205.06	0.00	205.58	0.08	206.10	0.14
204.55	0.00	205.07	0.00	205.59	0.08	206.11	0.14
204.56	0.00	205.08	0.00	205.60	0.08	206.12	0.14
204.57	0.00	205.09	0.00	205.61	0.08	206.13	0.14
204.58	0.00	205.10	0.00	205.62	0.08	206.14	0.14
204.59	0.00	205.11	0.00	205.63	0.08	206.15	0.15
204.60	0.00	205.12	0.00	205.64	0.09	206.16	0.15
204.61	0.00	205.13	0.00	205.65	0.09	206.17	0.15
204.62	0.00	205.14	0.00	205.66	0.09	206.18	0.15
204.63	0.00	205.15	0.00	205.67	0.09	206.19	0.15
204.64	0.00	205.16	0.00	205.68	0.09	206.20	0.15
204.65	0.00	205.17	0.00	205.69	0.09	206.21	0.15
204.66	0.00	205.18	0.00	205.70	0.10	206.22	0.15
204.67	0.00	205.19	0.00	205.71	0.10	206.23	0.15
204.68	0.00	205.20	0.00	205.72	0.10	206.24	0.15
204.69	0.00	205.21	0.00	205.73	0.10	206.25	0.15
204.70	0.00	205.22	0.00	205.74	0.10	206.26	0.16
204.71	0.00	205.23	0.00	205.75	0.10	206.27	0.16
204.72	0.00	205.24	0.00	205.76	0.10	206.28	0.16
204.73	0.00	205.25	0.00	205.77	0.10	206.29	0.16
204.74	0.00	205.26	0.00	205.78	0.11	206.30	0.16
204.75	0.00	205.27	0.00	205.79	0.11	206.31	0.16
204.76	0.00	205.28	0.00	205.80	0.11	206.32	0.16
204.77	0.00	205.29	0.00	205.81	0.11	206.33	0.16
204.78	0.00	205.30	0.00	205.82	0.11	206.34	0.16
204.79	0.00	205.31	0.00	205.83	0.11	206.35	0.16
204.80	0.00	205.32	0.01	205.84	0.11	206.36	0.16
204.81	0.00	205.33	0.01	205.85	0.11	206.37	0.16

Stage-Discharge for Pond B-38: Basin #38 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
206.38	0.17	206.90	1.45	207.42	8.10	207.94	14.46
206.39	0.17	206.91	1.54	207.43	8.25	207.95	14.49
206.40	0.17	206.92	1.63	207.44	8.41	207.96	14.51
206.41	0.17	206.93	1.72	207.45	8.57	207.97	14.54
206.42	0.17	206.94	1.82	207.46	8.74	207.98	14.56
206.43	0.17	206.95	1.92	207.47	8.90	207.99	14.59
206.44	0.17	206.96	2.02	207.48	9.06	208.00	14.61
206.45	0.17	206.97	2.12	207.49	9.22	208.01	14.64
206.46	0.17	206.98	2.22	207.50	9.39	208.02	14.66
206.47	0.17	206.99	2.33	207.51	9.55	208.03	14.69
206.48	0.17	207.00	2.43	207.52	9.72	208.04	14.71
206.49	0.17	207.01	2.54	207.53	9.89	208.05	14.74
206.50	0.17	207.02	2.65	207.54	10.06	208.06	14.76
206.51	0.18	207.03	2.76	207.55	10.23	208.07	14.79
206.52	0.18	207.04	2.87	207.56	10.40	208.08	14.81
206.53	0.18	207.05	2.99	207.57	10.57	208.09	14.84
206.54	0.18	207.06	3.10	207.58	10.74	208.10	14.86
206.55	0.18	207.07	3.22	207.59	10.91	208.11	14.88
206.56	0.18	207.08	3.34	207.60	11.08	208.12	14.91
206.57	0.18	207.09	3.46	207.61	11.26	208.13	14.93
206.58	0.18	207.10	3.58	207.62	11.43	208.14	14.96
206.59	0.18	207.11	3.70	207.63	11.61	208.15	14.98
206.60	0.18	207.12	3.83	207.64	11.78	208.16	15.01
206.61	0.18	207.13	3.95	207.65	11.96	208.17	15.03
206.62	0.18	207.14	4.08	207.66	12.14	208.18	15.05
206.63	0.18	207.15	4.21	207.67	12.32	208.19	15.08
206.64	0.19	207.16	4.34	207.68	12.50	208.20	15.10
206.65	0.19	207.17	4.47	207.69	12.68	208.21	15.13
206.66	0.19	207.18	4.60	207.70	12.86	208.22	15.15
206.67	0.19	207.19	4.73	207.71	13.04	208.23	15.17
206.68	0.19	207.20	4.86	207.72	13.22	208.24	15.20
206.69	0.19	207.21	5.00	207.73	13.40	208.25	15.22
206.70	0.20	207.22	5.14	207.74	13.59	208.26	15.36
206.71	0.23	207.23	5.27	207.75	13.77	208.27	15.60
206.72	0.26	207.24	5.41	207.76	13.96	208.28	15.90
206.73	0.30	207.25	5.55	207.77	14.03	208.29	16.25
206.74	0.34	207.26	5.69	207.78	14.06	208.30	16.65
206.75	0.38	207.27	5.84	207.79	14.08	208.31	17.09
206.76	0.44	207.28	5.98	207.80	14.11	208.32	17.56
206.77	0.49	207.29	6.12	207.81	14.14	208.33	18.07
206.78	0.55	207.30	6.27	207.82	14.16	208.34	18.61
206.79	0.61	207.31	6.42	207.83	14.19	208.35	19.17
206.80	0.67	207.32	6.56	207.84	14.21	208.36	19.77
206.81	0.74	207.33	6.71	207.85	14.24	208.37	20.40
206.82	0.81	207.34	6.86	207.86	14.26	208.38	21.05
206.83	0.88	207.35	7.01	207.87	14.29	208.39	21.72
206.84	0.95	207.36	7.16	207.88	14.31	208.40	22.42
206.85	1.03	207.37	7.32	207.89	14.34	208.41	23.14
206.86	1.11	207.38	7.47	207.90	14.36	208.42	23.89
206.87	1.19	207.39	7.63	207.91	14.39	208.43	24.66
206.88	1.28	207.40	7.78	207.92	14.41	208.44	25.44
206.89	1.36	207.41	7.94	207.93	14.44	208.45	26.25

Stage-Discharge for Pond B-38: Basin #38 (continued)

Elevation (feet)	Primary (cfs)
208.46	27.12
208.47	28.02
208.48	28.94
208.49	29.89
208.50	30.86
208.51	31.85
208.52	32.88
208.53	33.92
208.54	34.99
208.55	36.09
208.56	37.21
208.57	38.35
208.58	39.52
208.59	40.71
208.60	41.93
208.61	43.17
208.62	44.43
208.63	45.72
208.64	47.04
208.65	48.37
208.66	49.76
208.67	51.18
208.68	52.62
208.69	54.08
208.70	55.58
208.71	57.09
208.72	58.64
208.73	60.21
208.74	61.81
208.75	63.43
208.76	65.08
208.77	66.76
208.78	68.46
208.79	70.19
208.80	71.95
208.81	73.73
208.82	75.54
208.83	77.38
208.84	79.24
208.85	81.14
208.86	82.78
208.87	84.45
208.88	86.12
208.89	87.81
208.90	89.51
208.91	91.23
208.92	92.96
208.93	94.70
208.94	96.45
208.95	98.22
208.96	100.00
208.97	101.79
208.98	103.60
208.99	105.42
209.00	**107.25**

Stage-Area-Storage for Pond B-38: Basin #38

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.30	0	0
204.31	73	0
204.32	146	1
204.33	218	3
204.34	291	6
204.35	364	9
204.36	437	13
204.37	510	18
204.38	582	23
204.39	655	29
204.40	728	36
204.41	801	44
204.42	874	52
204.43	946	62
204.44	1,019	71
204.45	1,092	82
204.46	1,165	93
204.47	1,238	105
204.48	1,310	118
204.49	1,383	131
204.50	1,456	146
204.51	1,529	161
204.52	1,602	176
204.53	1,674	193
204.54	1,747	210
204.55	1,820	228
204.56	1,893	246
204.57	1,966	265
204.58	2,038	285
204.59	2,111	306
204.60	2,184	328
204.61	2,257	350
204.62	2,330	373
204.63	2,402	396
204.64	2,475	421
204.65	2,548	446
204.66	2,621	472
204.67	2,694	498
204.68	2,766	526
204.69	2,839	554
204.70	2,912	582
204.71	2,985	612
204.72	3,058	642
204.73	3,130	673
204.74	3,203	705
204.75	3,276	737
204.76	3,349	770
204.77	3,422	804
204.78	3,494	839
204.79	3,567	874
204.80	3,640	910
204.81	3,713	947
204.82	3,786	984
204.83	3,858	1,022
204.84	3,931	1,061
204.85	4,004	1,101
204.86	4,077	1,142
204.87	4,150	1,183
204.88	4,222	1,224
204.89	4,295	1,267
204.90	4,368	1,310
204.91	4,441	1,354
204.92	4,514	1,399
204.93	4,586	1,445
204.94	4,659	1,491
204.95	4,732	1,538
204.96	4,805	1,586
204.97	4,878	1,634
204.98	4,950	1,683
204.99	5,023	1,733
205.00	5,096	1,784
205.01	5,105	1,835
205.02	5,113	1,886
205.03	5,122	1,937
205.04	5,131	1,988
205.05	5,140	2,039
205.06	5,148	2,091
205.07	5,157	2,142
205.08	5,166	2,194
205.09	5,174	2,246
205.10	5,183	2,298
205.11	5,192	2,349
205.12	5,200	2,401
205.13	5,209	2,453
205.14	5,218	2,506
205.15	5,227	2,558
205.16	5,235	2,610
205.17	5,244	2,662
205.18	5,253	2,715
205.19	5,261	2,768
205.20	5,270	2,820
205.21	5,279	2,873
205.22	5,287	2,926
205.23	5,296	2,979
205.24	5,305	3,032
205.25	5,314	3,085
205.26	5,322	3,138
205.27	5,331	3,191
205.28	5,340	3,245
205.29	5,348	3,298
205.30	5,357	3,352
205.31	5,366	3,405
205.32	5,374	3,459
205.33	5,383	3,513

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.34	5,392	3,567
205.35	5,401	3,620
205.36	5,409	3,675
205.37	5,418	3,729
205.38	5,427	3,783
205.39	5,435	3,837
205.40	5,444	3,892
205.41	5,453	3,946
205.42	5,461	4,001
205.43	5,470	4,055
205.44	5,479	4,110
205.45	5,488	4,165
205.46	5,496	4,220
205.47	5,505	4,275
205.48	5,514	4,330
205.49	5,522	4,385
205.50	5,531	4,440
205.51	5,540	4,496
205.52	5,548	4,551
205.53	5,557	4,607
205.54	5,566	4,662
205.55	5,575	4,718
205.56	5,583	4,774
205.57	5,592	4,830
205.58	5,601	4,886
205.59	5,609	4,942
205.60	5,618	4,998
205.61	5,627	5,054
205.62	5,635	5,110
205.63	5,644	5,167
205.64	5,653	5,223
205.65	5,662	5,280
205.66	5,670	5,336
205.67	5,679	5,393
205.68	5,688	5,450
205.69	5,696	5,507
205.70	5,705	5,564
205.71	5,714	5,621
205.72	5,722	5,678
205.73	5,731	5,735
205.74	5,740	5,793
205.75	5,749	5,850
205.76	5,757	5,908
205.77	5,766	5,965
205.78	5,775	6,023
205.79	5,783	6,081
205.80	5,792	6,139
205.81	5,801	6,197
205.82	5,809	6,255
205.83	5,818	6,313
205.84	5,827	6,371
205.85	5,836	6,429
205.86	5,844	6,488
205.87	5,853	6,546
205.88	5,862	6,605
205.89	5,870	6,664
205.90	5,879	6,722
205.91	5,888	6,781
205.92	5,896	6,840
205.93	5,905	6,899
205.94	5,914	6,958
205.95	5,923	7,017
205.96	5,931	7,077
205.97	5,940	7,136
205.98	5,949	7,195
205.99	5,957	7,255
206.00	5,966	7,315
206.01	5,975	7,374
206.02	5,985	7,434
206.03	5,994	7,494
206.04	6,003	7,554
206.05	6,012	7,614
206.06	6,022	7,674
206.07	6,031	7,734
206.08	6,040	7,795
206.09	6,049	7,855
206.10	6,059	7,916
206.11	6,068	7,976
206.12	6,077	8,037
206.13	6,087	8,098
206.14	6,096	8,159
206.15	6,105	8,220
206.16	6,114	8,281
206.17	6,124	8,342
206.18	6,133	8,403
206.19	6,142	8,465
206.20	6,151	8,526
206.21	6,161	8,588
206.22	6,170	8,650
206.23	6,179	8,711
206.24	6,188	8,773
206.25	6,198	8,835
206.26	6,207	8,897
206.27	6,216	8,959
206.28	6,226	9,021
206.29	6,235	9,084
206.30	6,244	9,146
206.31	6,253	9,209
206.32	6,263	9,271
206.33	6,272	9,334
206.34	6,281	9,397
206.35	6,290	9,459
206.36	6,300	9,522
206.37	6,309	9,585

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
206.38	6,318	9,649
206.39	6,328	9,712
206.40	6,337	9,775
206.41	6,346	9,839
206.42	6,355	9,902
206.43	6,365	9,966
206.44	6,374	10,029
206.45	6,383	10,093
206.46	6,392	10,157
206.47	6,402	10,221
206.48	6,411	10,285
206.49	6,420	10,349
206.50	6,430	10,413
206.51	6,439	10,478
206.52	6,448	10,542
206.53	6,457	10,607
206.54	6,467	10,671
206.55	6,476	10,736
206.56	6,485	10,801
206.57	6,494	10,866
206.58	6,504	10,931
206.59	6,513	10,996
206.60	6,522	11,061
206.61	6,531	11,126
206.62	6,541	11,192
206.63	6,550	11,257
206.64	6,559	11,323
206.65	6,569	11,388
206.66	6,578	11,454
206.67	6,587	11,520
206.68	6,596	11,586
206.69	6,606	11,652
206.70	6,615	11,718
206.71	6,624	11,784
206.72	6,633	11,850
206.73	6,643	11,917
206.74	6,652	11,983
206.75	6,661	12,050
206.76	6,671	12,116
206.77	6,680	12,183
206.78	6,689	12,250
206.79	6,698	12,317
206.80	6,708	12,384
206.81	6,717	12,451
206.82	6,726	12,518
206.83	6,735	12,586
206.84	6,745	12,653
206.85	6,754	12,721
206.86	6,763	12,788
206.87	6,772	12,856
206.88	6,782	12,924
206.89	6,791	12,991
206.90	6,800	13,059
206.91	6,810	13,127
206.92	6,819	13,196
206.93	6,828	13,264
206.94	6,837	13,332
206.95	6,847	13,401
206.96	6,856	13,469
206.97	6,865	13,538
206.98	6,874	13,606
206.99	6,884	13,675
207.00	6,893	13,744
207.01	6,903	13,813
207.02	6,913	13,882
207.03	6,922	13,951
207.04	6,932	14,021
207.05	6,942	14,090
207.06	6,952	14,159
207.07	6,962	14,229
207.08	6,972	14,299
207.09	6,981	14,368
207.10	6,991	14,438
207.11	7,001	14,508
207.12	7,011	14,578
207.13	7,021	14,648
207.14	7,031	14,719
207.15	7,040	14,789
207.16	7,050	14,860
207.17	7,060	14,930
207.18	7,070	15,001
207.19	7,080	15,072
207.20	7,090	15,142
207.21	7,099	15,213
207.22	7,109	15,284
207.23	7,119	15,355
207.24	7,129	15,427
207.25	7,139	15,498
207.26	7,149	15,570
207.27	7,158	15,641
207.28	7,168	15,713
207.29	7,178	15,784
207.30	7,188	15,856
207.31	7,198	15,928
207.32	7,208	16,000
207.33	7,217	16,072
207.34	7,227	16,145
207.35	7,237	16,217
207.36	7,247	16,289
207.37	7,257	16,362
207.38	7,267	16,434
207.39	7,276	16,507
207.40	7,286	16,580
207.41	7,296	16,653

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
207.42	7,306	16,726
207.43	7,316	16,799
207.44	7,326	16,872
207.45	7,335	16,945
207.46	7,345	17,019
207.47	7,355	17,092
207.48	7,365	17,166
207.49	7,375	17,240
207.50	7,385	17,313
207.51	7,394	17,387
207.52	7,404	17,461
207.53	7,414	17,535
207.54	7,424	17,610
207.55	7,434	17,684
207.56	7,443	17,758
207.57	7,453	17,833
207.58	7,463	17,907
207.59	7,473	17,982
207.60	7,483	18,057
207.61	7,493	18,132
207.62	7,502	18,207
207.63	7,512	18,282
207.64	7,522	18,357
207.65	7,532	18,432
207.66	7,542	18,508
207.67	7,552	18,583
207.68	7,561	18,659
207.69	7,571	18,734
207.70	7,581	18,810
207.71	7,591	18,886
207.72	7,601	18,962
207.73	7,611	19,038
207.74	7,620	19,114
207.75	7,630	19,190
207.76	7,640	19,267
207.77	7,650	19,343
207.78	7,660	19,420
207.79	7,670	19,496
207.80	7,679	19,573
207.81	7,689	19,650
207.82	7,699	19,727
207.83	7,709	19,804
207.84	7,719	19,881
207.85	7,729	19,958
207.86	7,738	20,036
207.87	7,748	20,113
207.88	7,758	20,191
207.89	7,768	20,268
207.90	7,778	20,346
207.91	7,788	20,424
207.92	7,797	20,502
207.93	7,807	20,580
207.94	7,817	20,658
207.95	7,827	20,736
207.96	7,837	20,814
207.97	7,847	20,893
207.98	7,856	20,971
207.99	7,866	21,050
208.00	7,876	21,129
208.01	7,886	21,207
208.02	7,897	21,286
208.03	7,907	21,365
208.04	7,918	21,444
208.05	7,928	21,524
208.06	7,938	21,603
208.07	7,949	21,682
208.08	7,959	21,762
208.09	7,970	21,842
208.10	7,980	21,921
208.11	7,990	22,001
208.12	8,001	22,081
208.13	8,011	22,161
208.14	8,022	22,241
208.15	8,032	22,322
208.16	8,042	22,402
208.17	8,053	22,483
208.18	8,063	22,563
208.19	8,074	22,644
208.20	8,084	22,725
208.21	8,094	22,805
208.22	8,105	22,886
208.23	8,115	22,968
208.24	8,126	23,049
208.25	8,136	23,130
208.26	8,146	23,212
208.27	8,157	23,293
208.28	8,167	23,375
208.29	8,178	23,456
208.30	8,188	23,538
208.31	8,198	23,620
208.32	8,209	23,702
208.33	8,219	23,784
208.34	8,230	23,867
208.35	8,240	23,949
208.36	8,250	24,031
208.37	8,261	24,114
208.38	8,271	24,197
208.39	8,282	24,279
208.40	8,292	24,362
208.41	8,302	24,445
208.42	8,313	24,528
208.43	8,323	24,611
208.44	8,334	24,695
208.45	8,344	24,778

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.46	8,354	24,862
208.47	8,365	24,945
208.48	8,375	25,029
208.49	8,386	25,113
208.50	8,396	25,197
208.51	8,406	25,281
208.52	8,417	25,365
208.53	8,427	25,449
208.54	8,438	25,533
208.55	8,448	25,618
208.56	8,458	25,702
208.57	8,469	25,787
208.58	8,479	25,872
208.59	8,490	25,956
208.60	8,500	26,041
208.61	8,510	26,126
208.62	8,521	26,212
208.63	8,531	26,297
208.64	8,542	26,382
208.65	8,552	26,468
208.66	8,562	26,553
208.67	8,573	26,639
208.68	8,583	26,725
208.69	8,594	26,811
208.70	8,604	26,897
208.71	8,614	26,983
208.72	8,625	27,069
208.73	8,635	27,155
208.74	8,646	27,242
208.75	8,656	27,328
208.76	8,666	27,415
208.77	8,677	27,501
208.78	8,687	27,588
208.79	8,698	27,675
208.80	8,708	27,762
208.81	8,718	27,849
208.82	8,729	27,937
208.83	8,739	28,024
208.84	8,750	28,111
208.85	8,760	28,199
208.86	8,770	28,287
208.87	8,781	28,374
208.88	8,791	28,462
208.89	8,802	28,550
208.90	8,812	28,638
208.91	8,822	28,726
208.92	8,833	28,815
208.93	8,843	28,903
208.94	8,854	28,992
208.95	8,864	29,080
208.96	8,874	29,169
208.97	8,885	29,258
208.98	8,895	29,346
208.99	8,906	29,435
209.00	**8,916**	**29,525**

Summary for Pond B-39: Basin #39

Inflow Area = 1.884 ac, 41.56% Impervious, Inflow Depth = 9.18" for Future 100 yr event
Inflow = 17.43 cfs @ 12.17 hrs, Volume= 1.441 af
Outflow = 15.08 cfs @ 12.23 hrs, Volume= 1.367 af, Atten= 14%, Lag= 3.3 min
Primary = 15.08 cfs @ 12.23 hrs, Volume= 1.367 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 204.13' @ 12.23 hrs Surf.Area= 4,527 sf Storage= 12,620 cf

Plug-Flow detention time= 99.0 min calculated for 1.367 af (95% of inflow)
Center-of-Mass det. time= 68.7 min (844.4 - 775.7)

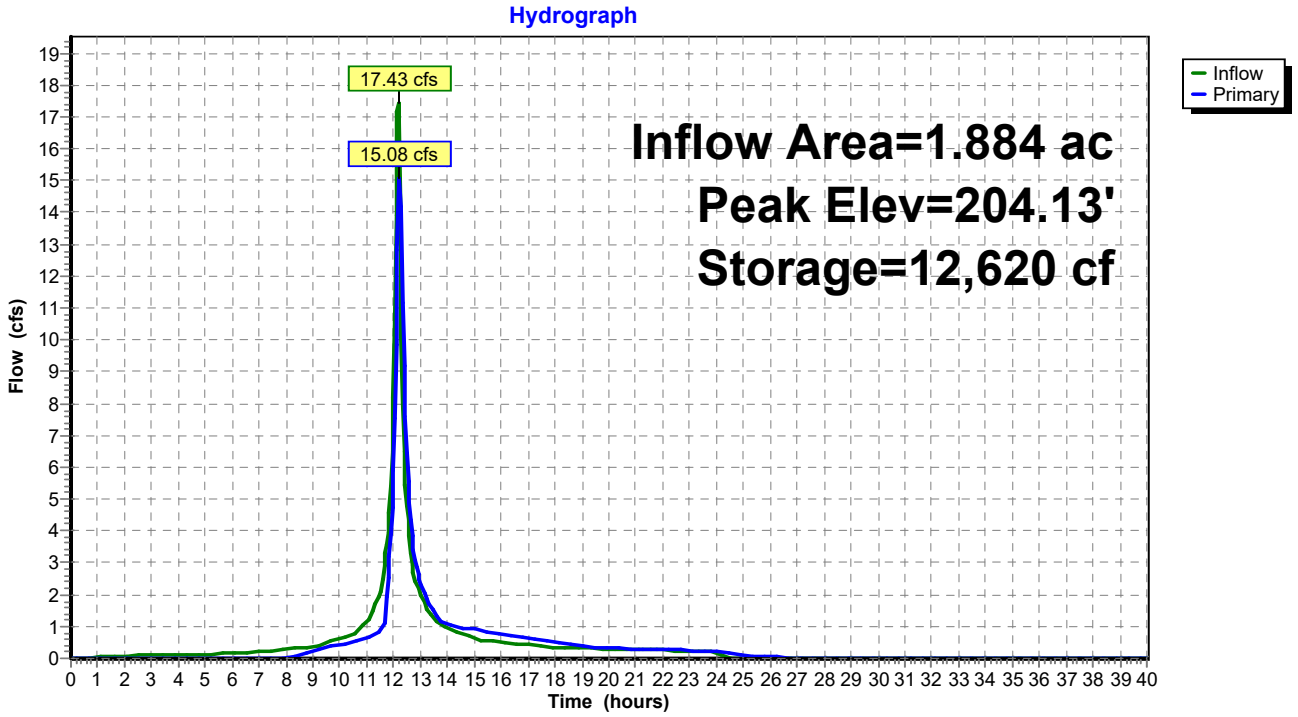
Volume	Invert	Avail.Storage	Storage Description
#1	200.30'	16,777 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.30	0	0	0
201.00	2,928	1,025	1,025
202.00	3,408	3,168	4,193
203.00	3,917	3,663	7,855
204.00	4,454	4,186	12,041
205.00	5,019	4,737	16,777

Device	Routing	Invert	Outlet Devices
#1	Primary	200.30'	**18.0" Round Culvert** L= 38.0' Ke= 0.500 Inlet / Outlet Invert= 200.30' / 200.11' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	201.71'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	203.04'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	204.50'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=14.90 cfs @ 12.23 hrs HW=204.12' (Free Discharge)
- **1=Culvert** (Inlet Controls 14.90 cfs @ 8.43 fps)
  - **2=Orifice/Grate** (Passes < 1.39 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 13.81 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-39: Basin #39



Stage-Discharge for Pond B-39: Basin #39

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.07
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.07
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.08
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.09
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.10
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.11
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.12
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.13
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.14
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.16
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.17
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.18
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.19
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.20
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.22
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.23
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.24
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.26
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.27
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.28
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.30
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.31
200.52	0.00	201.04	0.00	201.56	0.00	202.08	0.32
200.53	0.00	201.05	0.00	201.57	0.00	202.09	0.34
200.54	0.00	201.06	0.00	201.58	0.00	202.10	0.35
200.55	0.00	201.07	0.00	201.59	0.00	202.11	0.36
200.56	0.00	201.08	0.00	201.60	0.00	202.12	0.38
200.57	0.00	201.09	0.00	201.61	0.00	202.13	0.39
200.58	0.00	201.10	0.00	201.62	0.00	202.14	0.40
200.59	0.00	201.11	0.00	201.63	0.00	202.15	0.41
200.60	0.00	201.12	0.00	201.64	0.00	202.16	0.43
200.61	0.00	201.13	0.00	201.65	0.00	202.17	0.44
200.62	0.00	201.14	0.00	201.66	0.00	202.18	0.45
200.63	0.00	201.15	0.00	201.67	0.00	202.19	0.46
200.64	0.00	201.16	0.00	201.68	0.00	202.20	0.47
200.65	0.00	201.17	0.00	201.69	0.00	202.21	0.47
200.66	0.00	201.18	0.00	201.70	0.00	202.22	0.48
200.67	0.00	201.19	0.00	201.71	0.00	202.23	0.49
200.68	0.00	201.20	0.00	201.72	0.00	202.24	0.50
200.69	0.00	201.21	0.00	201.73	0.00	202.25	0.51
200.70	0.00	201.22	0.00	201.74	0.00	202.26	0.52
200.71	0.00	201.23	0.00	201.75	0.01	202.27	0.53
200.72	0.00	201.24	0.00	201.76	0.01	202.28	0.53
200.73	0.00	201.25	0.00	201.77	0.01	202.29	0.54
200.74	0.00	201.26	0.00	201.78	0.02	202.30	0.55
200.75	0.00	201.27	0.00	201.79	0.02	202.31	0.56
200.76	0.00	201.28	0.00	201.80	0.02	202.32	0.57
200.77	0.00	201.29	0.00	201.81	0.03	202.33	0.58
200.78	0.00	201.30	0.00	201.82	0.04	202.34	0.58
200.79	0.00	201.31	0.00	201.83	0.04	202.35	0.59
200.80	0.00	201.32	0.00	201.84	0.05	202.36	0.60
200.81	0.00	201.33	0.00	201.85	0.06	202.37	0.61

Stage-Discharge for Pond B-39: Basin #39 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.38	0.61	202.90	0.92	203.42	4.15	203.94	12.00
202.39	0.62	202.91	0.92	203.43	4.27	203.95	12.17
202.40	0.63	202.92	0.93	203.44	4.39	203.96	12.35
202.41	0.63	202.93	0.93	203.45	4.52	203.97	12.53
202.42	0.64	202.94	0.94	203.46	4.64	203.98	12.70
202.43	0.65	202.95	0.94	203.47	4.77	203.99	12.88
202.44	0.66	202.96	0.95	203.48	4.90	204.00	13.06
202.45	0.66	202.97	0.95	203.49	5.03	204.01	13.24
202.46	0.67	202.98	0.95	203.50	5.16	204.02	13.42
202.47	0.68	202.99	0.96	203.51	5.29	204.03	13.61
202.48	0.68	203.00	0.96	203.52	5.43	204.04	13.79
202.49	0.69	203.01	0.97	203.53	5.56	204.05	13.97
202.50	0.69	203.02	0.97	203.54	5.70	204.06	14.16
202.51	0.70	203.03	0.98	203.55	5.83	204.07	14.34
202.52	0.71	203.04	0.98	203.56	5.97	204.08	14.53
202.53	0.71	203.05	1.00	203.57	6.11	204.09	14.71
202.54	0.72	203.06	1.03	203.58	6.25	204.10	14.86
202.55	0.73	203.07	1.06	203.59	6.40	204.11	14.88
202.56	0.73	203.08	1.10	203.60	6.54	204.12	14.91
202.57	0.74	203.09	1.15	203.61	6.68	204.13	14.93
202.58	0.74	203.10	1.20	203.62	6.83	204.14	14.96
202.59	0.75	203.11	1.26	203.63	6.97	204.15	14.98
202.60	0.76	203.12	1.31	203.64	7.12	204.16	15.01
202.61	0.76	203.13	1.37	203.65	7.27	204.17	15.03
202.62	0.77	203.14	1.44	203.66	7.42	204.18	15.05
202.63	0.77	203.15	1.51	203.67	7.57	204.19	15.08
202.64	0.78	203.16	1.58	203.68	7.72	204.20	15.10
202.65	0.79	203.17	1.65	203.69	7.88	204.21	15.13
202.66	0.79	203.18	1.72	203.70	8.03	204.22	15.15
202.67	0.80	203.19	1.80	203.71	8.18	204.23	15.17
202.68	0.80	203.20	1.88	203.72	8.34	204.24	15.20
202.69	0.81	203.21	1.97	203.73	8.50	204.25	15.22
202.70	0.81	203.22	2.05	203.74	8.65	204.26	15.24
202.71	0.82	203.23	2.14	203.75	8.81	204.27	15.27
202.72	0.82	203.24	2.23	203.76	8.97	204.28	15.29
202.73	0.83	203.25	2.32	203.77	9.13	204.29	15.32
202.74	0.83	203.26	2.41	203.78	9.29	204.30	15.34
202.75	0.84	203.27	2.51	203.79	9.46	204.31	15.36
202.76	0.85	203.28	2.61	203.80	9.62	204.32	15.39
202.77	0.85	203.29	2.70	203.81	9.78	204.33	15.41
202.78	0.86	203.30	2.81	203.82	9.95	204.34	15.43
202.79	0.86	203.31	2.91	203.83	10.11	204.35	15.46
202.80	0.87	203.32	3.01	203.84	10.28	204.36	15.48
202.81	0.87	203.33	3.12	203.85	10.45	204.37	15.50
202.82	0.88	203.34	3.23	203.86	10.62	204.38	15.53
202.83	0.88	203.35	3.34	203.87	10.79	204.39	15.55
202.84	0.89	203.36	3.45	203.88	10.96	204.40	15.57
202.85	0.89	203.37	3.56	203.89	11.13	204.41	15.60
202.86	0.90	203.38	3.68	203.90	11.30	204.42	15.62
202.87	0.90	203.39	3.79	203.91	11.47	204.43	15.64
202.88	0.91	203.40	3.91	203.92	11.65	204.44	15.67
202.89	0.91	203.41	4.03	203.93	11.82	204.45	15.69

Stage-Discharge for Pond B-39: Basin #39 (continued)

Elevation (feet)	Primary (cfs)
204.46	15.71
204.47	15.74
204.48	15.76
204.49	15.78
204.50	15.80
204.51	15.94
204.52	16.18
204.53	16.48
204.54	16.83
204.55	17.23
204.56	17.67
204.57	18.14
204.58	18.64
204.59	19.18
204.60	19.75
204.61	20.35
204.62	20.97
204.63	21.62
204.64	22.29
204.65	22.99
204.66	23.71
204.67	24.46
204.68	25.22
204.69	26.01
204.70	26.82
204.71	27.69
204.72	28.58
204.73	29.50
204.74	30.45
204.75	31.42
204.76	32.42
204.77	33.44
204.78	34.48
204.79	35.55
204.80	36.65
204.81	37.76
204.82	38.91
204.83	40.08
204.84	41.27
204.85	42.48
204.86	43.72
204.87	44.99
204.88	46.28
204.89	47.59
204.90	48.93
204.91	50.31
204.92	51.73
204.93	53.17
204.94	54.63
204.95	56.12
204.96	57.64
204.97	59.19
204.98	60.76
204.99	62.35
205.00	**63.98**

Stage-Area-Storage for Pond B-39: Basin #39

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.30	0	0	200.82	2,175	566
200.31	42	0	200.83	2,217	587
200.32	84	1	200.84	2,259	610
200.33	125	2	200.85	2,301	633
200.34	167	3	200.86	2,342	656
200.35	209	5	200.87	2,384	680
200.36	251	8	200.88	2,426	704
200.37	293	10	200.89	2,468	728
200.38	335	13	200.90	2,510	753
200.39	376	17	200.91	2,552	778
200.40	418	21	200.92	2,593	804
200.41	460	25	200.93	2,635	830
200.42	502	30	200.94	2,677	857
200.43	544	35	200.95	2,719	884
200.44	586	41	200.96	2,761	911
200.45	627	47	200.97	2,803	939
200.46	669	54	200.98	2,844	967
200.47	711	60	200.99	2,886	996
200.48	753	68	201.00	2,928	1,025
200.49	795	76	201.01	2,933	1,054
200.50	837	84	201.02	2,938	1,083
200.51	878	92	201.03	2,942	1,113
200.52	920	101	201.04	2,947	1,142
200.53	962	111	201.05	2,952	1,172
200.54	1,004	120	201.06	2,957	1,201
200.55	1,046	131	201.07	2,962	1,231
200.56	1,088	141	201.08	2,966	1,261
200.57	1,129	152	201.09	2,971	1,290
200.58	1,171	164	201.10	2,976	1,320
200.59	1,213	176	201.11	2,981	1,350
200.60	1,255	188	201.12	2,986	1,380
200.61	1,297	201	201.13	2,990	1,409
200.62	1,339	214	201.14	2,995	1,439
200.63	1,380	228	201.15	3,000	1,469
200.64	1,422	242	201.16	3,005	1,499
200.65	1,464	256	201.17	3,010	1,529
200.66	1,506	271	201.18	3,014	1,560
200.67	1,548	286	201.19	3,019	1,590
200.68	1,589	302	201.20	3,024	1,620
200.69	1,631	318	201.21	3,029	1,650
200.70	1,673	335	201.22	3,034	1,681
200.71	1,715	352	201.23	3,038	1,711
200.72	1,757	369	201.24	3,043	1,741
200.73	1,799	387	201.25	3,048	1,772
200.74	1,840	405	201.26	3,053	1,802
200.75	1,882	424	201.27	3,058	1,833
200.76	1,924	443	201.28	3,062	1,863
200.77	1,966	462	201.29	3,067	1,894
200.78	2,008	482	201.30	3,072	1,925
200.79	2,050	502	201.31	3,077	1,956
200.80	2,091	523	201.32	3,082	1,986
200.81	2,133	544	201.33	3,086	2,017

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.34	3,091	2,048
201.35	3,096	2,079
201.36	3,101	2,110
201.37	3,106	2,141
201.38	3,110	2,172
201.39	3,115	2,203
201.40	3,120	2,234
201.41	3,125	2,266
201.42	3,130	2,297
201.43	3,134	2,328
201.44	3,139	2,360
201.45	3,144	2,391
201.46	3,149	2,422
201.47	3,154	2,454
201.48	3,158	2,486
201.49	3,163	2,517
201.50	3,168	2,549
201.51	3,173	2,581
201.52	3,178	2,612
201.53	3,182	2,644
201.54	3,187	2,676
201.55	3,192	2,708
201.56	3,197	2,740
201.57	3,202	2,772
201.58	3,206	2,804
201.59	3,211	2,836
201.60	3,216	2,868
201.61	3,221	2,900
201.62	3,226	2,932
201.63	3,230	2,965
201.64	3,235	2,997
201.65	3,240	3,029
201.66	3,245	3,062
201.67	3,250	3,094
201.68	3,254	3,127
201.69	3,259	3,159
201.70	3,264	3,192
201.71	3,269	3,225
201.72	3,274	3,257
201.73	3,278	3,290
201.74	3,283	3,323
201.75	3,288	3,356
201.76	3,293	3,389
201.77	3,298	3,422
201.78	3,302	3,455
201.79	3,307	3,488
201.80	3,312	3,521
201.81	3,317	3,554
201.82	3,322	3,587
201.83	3,326	3,620
201.84	3,331	3,654
201.85	3,336	3,687
201.86	3,341	3,720
201.87	3,346	3,754
201.88	3,350	3,787
201.89	3,355	3,821
201.90	3,360	3,854
201.91	3,365	3,888
201.92	3,370	3,922
201.93	3,374	3,955
201.94	3,379	3,989
201.95	3,384	4,023
201.96	3,389	4,057
201.97	3,394	4,091
201.98	3,398	4,125
201.99	3,403	4,159
202.00	3,408	4,193
202.01	3,413	4,227
202.02	3,418	4,261
202.03	3,423	4,295
202.04	3,428	4,330
202.05	3,433	4,364
202.06	3,439	4,398
202.07	3,444	4,433
202.08	3,449	4,467
202.09	3,454	4,502
202.10	3,459	4,536
202.11	3,464	4,571
202.12	3,469	4,605
202.13	3,474	4,640
202.14	3,479	4,675
202.15	3,484	4,710
202.16	3,489	4,745
202.17	3,495	4,780
202.18	3,500	4,814
202.19	3,505	4,850
202.20	3,510	4,885
202.21	3,515	4,920
202.22	3,520	4,955
202.23	3,525	4,990
202.24	3,530	5,025
202.25	3,535	5,061
202.26	3,540	5,096
202.27	3,545	5,132
202.28	3,551	5,167
202.29	3,556	5,203
202.30	3,561	5,238
202.31	3,566	5,274
202.32	3,571	5,309
202.33	3,576	5,345
202.34	3,581	5,381
202.35	3,586	5,417
202.36	3,591	5,453
202.37	3,596	5,489

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.38	3,601	5,525
202.39	3,607	5,561
202.40	3,612	5,597
202.41	3,617	5,633
202.42	3,622	5,669
202.43	3,627	5,705
202.44	3,632	5,742
202.45	3,637	5,778
202.46	3,642	5,814
202.47	3,647	5,851
202.48	3,652	5,887
202.49	3,657	5,924
202.50	3,663	5,960
202.51	3,668	5,997
202.52	3,673	6,034
202.53	3,678	6,071
202.54	3,683	6,107
202.55	3,688	6,144
202.56	3,693	6,181
202.57	3,698	6,218
202.58	3,703	6,255
202.59	3,708	6,292
202.60	3,713	6,329
202.61	3,718	6,366
202.62	3,724	6,404
202.63	3,729	6,441
202.64	3,734	6,478
202.65	3,739	6,516
202.66	3,744	6,553
202.67	3,749	6,590
202.68	3,754	6,628
202.69	3,759	6,665
202.70	3,764	6,703
202.71	3,769	6,741
202.72	3,774	6,778
202.73	3,780	6,816
202.74	3,785	6,854
202.75	3,790	6,892
202.76	3,795	6,930
202.77	3,800	6,968
202.78	3,805	7,006
202.79	3,810	7,044
202.80	3,815	7,082
202.81	3,820	7,120
202.82	3,825	7,158
202.83	3,830	7,197
202.84	3,836	7,235
202.85	3,841	7,273
202.86	3,846	7,312
202.87	3,851	7,350
202.88	3,856	7,389
202.89	3,861	7,428
202.90	3,866	7,466
202.91	3,871	7,505
202.92	3,876	7,544
202.93	3,881	7,582
202.94	3,886	7,621
202.95	3,892	7,660
202.96	3,897	7,699
202.97	3,902	7,738
202.98	3,907	7,777
202.99	3,912	7,816
203.00	3,917	7,855
203.01	3,922	7,894
203.02	3,928	7,934
203.03	3,933	7,973
203.04	3,938	8,012
203.05	3,944	8,052
203.06	3,949	8,091
203.07	3,955	8,131
203.08	3,960	8,170
203.09	3,965	8,210
203.10	3,971	8,250
203.11	3,976	8,289
203.12	3,981	8,329
203.13	3,987	8,369
203.14	3,992	8,409
203.15	3,998	8,449
203.16	4,003	8,489
203.17	4,008	8,529
203.18	4,014	8,569
203.19	4,019	8,609
203.20	4,024	8,649
203.21	4,030	8,690
203.22	4,035	8,730
203.23	4,041	8,770
203.24	4,046	8,811
203.25	4,051	8,851
203.26	4,057	8,892
203.27	4,062	8,932
203.28	4,067	8,973
203.29	4,073	9,014
203.30	4,078	9,055
203.31	4,083	9,095
203.32	4,089	9,136
203.33	4,094	9,177
203.34	4,100	9,218
203.35	4,105	9,259
203.36	4,110	9,300
203.37	4,116	9,341
203.38	4,121	9,383
203.39	4,126	9,424
203.40	4,132	9,465
203.41	4,137	9,506

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.42	4,143	9,548	203.94	4,422	11,775
203.43	4,148	9,589	203.95	4,427	11,819
203.44	4,153	9,631	203.96	4,433	11,863
203.45	4,159	9,672	203.97	4,438	11,907
203.46	4,164	9,714	203.98	4,443	11,952
203.47	4,169	9,756	203.99	4,449	11,996
203.48	4,175	9,797	204.00	4,454	12,041
203.49	4,180	9,839	204.01	4,460	12,085
203.50	4,186	9,881	204.02	4,465	12,130
203.51	4,191	9,923	204.03	4,471	12,175
203.52	4,196	9,965	204.04	4,477	12,219
203.53	4,202	10,007	204.05	4,482	12,264
203.54	4,207	10,049	204.06	4,488	12,309
203.55	4,212	10,091	204.07	4,494	12,354
203.56	4,218	10,133	204.08	4,499	12,399
203.57	4,223	10,175	204.09	4,505	12,444
203.58	4,228	10,217	204.10	4,511	12,489
203.59	4,234	10,260	204.11	4,516	12,534
203.60	4,239	10,302	204.12	4,522	12,579
203.61	4,245	10,345	204.13	4,527	12,625
203.62	4,250	10,387	204.14	4,533	12,670
203.63	4,255	10,430	204.15	4,539	12,715
203.64	4,261	10,472	204.16	4,544	12,761
203.65	4,266	10,515	204.17	4,550	12,806
203.66	4,271	10,557	204.18	4,556	12,852
203.67	4,277	10,600	204.19	4,561	12,897
203.68	4,282	10,643	204.20	4,567	12,943
203.69	4,288	10,686	204.21	4,573	12,989
203.70	4,293	10,729	204.22	4,578	13,034
203.71	4,298	10,772	204.23	4,584	13,080
203.72	4,304	10,815	204.24	4,590	13,126
203.73	4,309	10,858	204.25	4,595	13,172
203.74	4,314	10,901	204.26	4,601	13,218
203.75	4,320	10,944	204.27	4,607	13,264
203.76	4,325	10,987	204.28	4,612	13,310
203.77	4,330	11,031	204.29	4,618	13,356
203.78	4,336	11,074	204.30	4,624	13,402
203.79	4,341	11,117	204.31	4,629	13,449
203.80	4,347	11,161	204.32	4,635	13,495
203.81	4,352	11,204	204.33	4,640	13,541
203.82	4,357	11,248	204.34	4,646	13,588
203.83	4,363	11,291	204.35	4,652	13,634
203.84	4,368	11,335	204.36	4,657	13,681
203.85	4,373	11,379	204.37	4,663	13,727
203.86	4,379	11,423	204.38	4,669	13,774
203.87	4,384	11,466	204.39	4,674	13,821
203.88	4,390	11,510	204.40	4,680	13,868
203.89	4,395	11,554	204.41	4,686	13,914
203.90	4,400	11,598	204.42	4,691	13,961
203.91	4,406	11,642	204.43	4,697	14,008
203.92	4,411	11,686	204.44	4,703	14,055
203.93	4,416	11,730	204.45	4,708	14,102

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.46	4,714	14,149
204.47	4,720	14,197
204.48	4,725	14,244
204.49	4,731	14,291
204.50	4,737	14,338
204.51	4,742	14,386
204.52	4,748	14,433
204.53	4,753	14,481
204.54	4,759	14,528
204.55	4,765	14,576
204.56	4,770	14,624
204.57	4,776	14,671
204.58	4,782	14,719
204.59	4,787	14,767
204.60	4,793	14,815
204.61	4,799	14,863
204.62	4,804	14,911
204.63	4,810	14,959
204.64	4,816	15,007
204.65	4,821	15,055
204.66	4,827	15,103
204.67	4,833	15,152
204.68	4,838	15,200
204.69	4,844	15,249
204.70	4,850	15,297
204.71	4,855	15,346
204.72	4,861	15,394
204.73	4,866	15,443
204.74	4,872	15,491
204.75	4,878	15,540
204.76	4,883	15,589
204.77	4,889	15,638
204.78	4,895	15,687
204.79	4,900	15,736
204.80	4,906	15,785
204.81	4,912	15,834
204.82	4,917	15,883
204.83	4,923	15,932
204.84	4,929	15,981
204.85	4,934	16,031
204.86	4,940	16,080
204.87	4,946	16,130
204.88	4,951	16,179
204.89	4,957	16,229
204.90	4,963	16,278
204.91	4,968	16,328
204.92	4,974	16,378
204.93	4,979	16,427
204.94	4,985	16,477
204.95	4,991	16,527
204.96	4,996	16,577
204.97	5,002	16,627
204.98	5,008	16,677
204.99	5,013	16,727
205.00	**5,019**	**16,777**

Summary for Pond B-40: Basin #40

Inflow Area = 1.888 ac, 47.19% Impervious, Inflow Depth = 9.35" for Future 100 yr event
Inflow = 17.66 cfs @ 12.17 hrs, Volume= 1.472 af
Outflow = 11.86 cfs @ 12.28 hrs, Volume= 1.389 af, Atten= 33%, Lag= 6.6 min
Primary = 11.86 cfs @ 12.28 hrs, Volume= 1.389 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 205.18' @ 12.28 hrs Surf.Area= 4,732 sf Storage= 14,307 cf

Plug-Flow detention time= 79.6 min calculated for 1.387 af (94% of inflow)
Center-of-Mass det. time= 47.3 min (819.2 - 771.9)

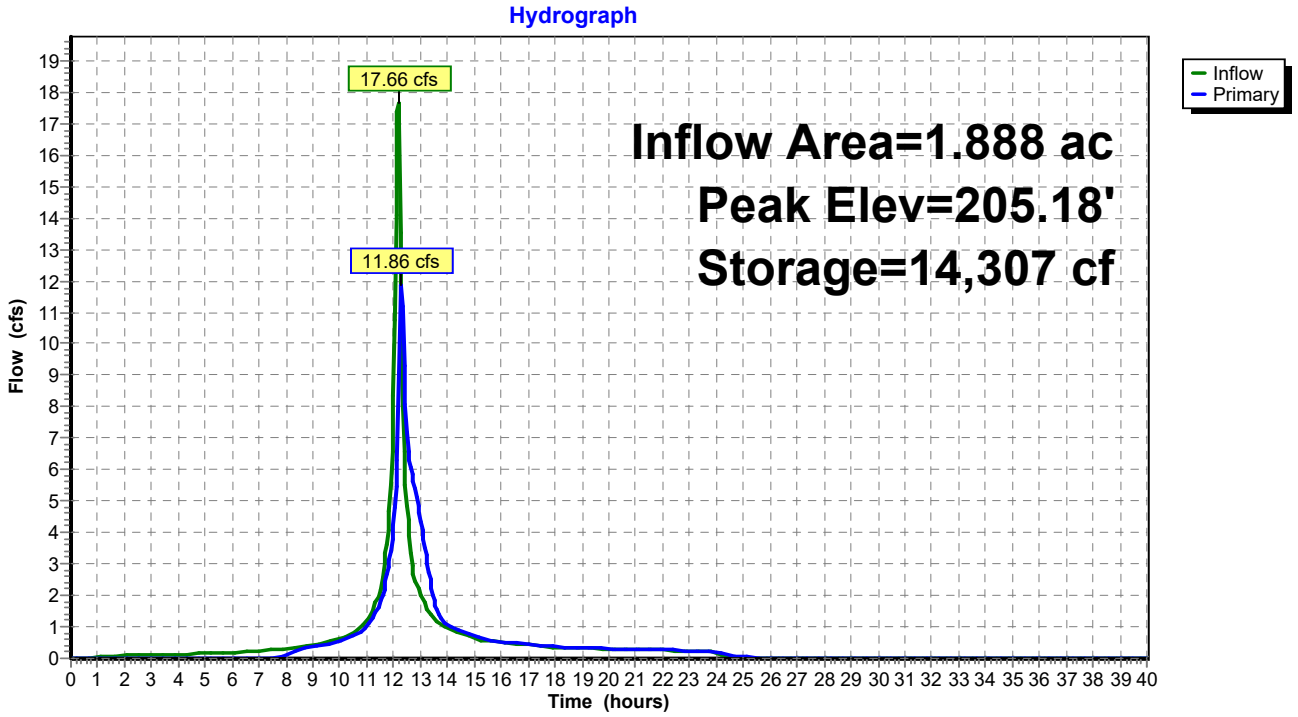
Volume	Invert	Avail.Storage	Storage Description
#1	201.30'	18,339 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
201.30	0	0	0
202.00	3,521	1,232	1,232
203.00	3,886	3,704	4,936
204.00	4,266	4,076	9,012
205.00	4,660	4,463	13,475
206.00	5,069	4,865	18,339

Device	Routing	Invert	Outlet Devices
#1	Primary	201.30'	**18.0" Round Culvert** L= 38.0' Ke= 0.500 Inlet / Outlet Invert= 201.30' / 201.11' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	202.65'	**24.0" W x 6.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	204.67'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	205.49'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=11.71 cfs @ 12.28 hrs HW=205.17' (Free Discharge)
- **1=Culvert** (Passes 11.71 cfs of 15.02 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 7.25 cfs @ 7.25 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 4.47 cfs @ 2.30 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-40: Basin #40



Stage-Discharge for Pond B-40: Basin #40

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.30	0.00	201.82	0.00	202.34	0.00	202.86	0.62
201.31	0.00	201.83	0.00	202.35	0.00	202.87	0.66
201.32	0.00	201.84	0.00	202.36	0.00	202.88	0.71
201.33	0.00	201.85	0.00	202.37	0.00	202.89	0.75
201.34	0.00	201.86	0.00	202.38	0.00	202.90	0.80
201.35	0.00	201.87	0.00	202.39	0.00	202.91	0.85
201.36	0.00	201.88	0.00	202.40	0.00	202.92	0.90
201.37	0.00	201.89	0.00	202.41	0.00	202.93	0.95
201.38	0.00	201.90	0.00	202.42	0.00	202.94	1.00
201.39	0.00	201.91	0.00	202.43	0.00	202.95	1.05
201.40	0.00	201.92	0.00	202.44	0.00	202.96	1.11
201.41	0.00	201.93	0.00	202.45	0.00	202.97	1.16
201.42	0.00	201.94	0.00	202.46	0.00	202.98	1.22
201.43	0.00	201.95	0.00	202.47	0.00	202.99	1.27
201.44	0.00	201.96	0.00	202.48	0.00	203.00	1.33
201.45	0.00	201.97	0.00	202.49	0.00	203.01	1.39
201.46	0.00	201.98	0.00	202.50	0.00	203.02	1.44
201.47	0.00	201.99	0.00	202.51	0.00	203.03	1.50
201.48	0.00	202.00	0.00	202.52	0.00	203.04	1.56
201.49	0.00	202.01	0.00	202.53	0.00	203.05	1.62
201.50	0.00	202.02	0.00	202.54	0.00	203.06	1.69
201.51	0.00	202.03	0.00	202.55	0.00	203.07	1.75
201.52	0.00	202.04	0.00	202.56	0.00	203.08	1.81
201.53	0.00	202.05	0.00	202.57	0.00	203.09	1.87
201.54	0.00	202.06	0.00	202.58	0.00	203.10	1.94
201.55	0.00	202.07	0.00	202.59	0.00	203.11	2.00
201.56	0.00	202.08	0.00	202.60	0.00	203.12	2.07
201.57	0.00	202.09	0.00	202.61	0.00	203.13	2.13
201.58	0.00	202.10	0.00	202.62	0.00	203.14	2.20
201.59	0.00	202.11	0.00	202.63	0.00	203.15	2.27
201.60	0.00	202.12	0.00	202.64	0.00	203.16	2.33
201.61	0.00	202.13	0.00	202.65	0.00	203.17	2.39
201.62	0.00	202.14	0.00	202.66	0.01	203.18	2.44
201.63	0.00	202.15	0.00	202.67	0.02	203.19	2.50
201.64	0.00	202.16	0.00	202.68	0.03	203.20	2.55
201.65	0.00	202.17	0.00	202.69	0.05	203.21	2.60
201.66	0.00	202.18	0.00	202.70	0.07	203.22	2.64
201.67	0.00	202.19	0.00	202.71	0.09	203.23	2.69
201.68	0.00	202.20	0.00	202.72	0.12	203.24	2.74
201.69	0.00	202.21	0.00	202.73	0.15	203.25	2.78
201.70	0.00	202.22	0.00	202.74	0.17	203.26	2.82
201.71	0.00	202.23	0.00	202.75	0.20	203.27	2.87
201.72	0.00	202.24	0.00	202.76	0.23	203.28	2.91
201.73	0.00	202.25	0.00	202.77	0.27	203.29	2.95
201.74	0.00	202.26	0.00	202.78	0.30	203.30	2.99
201.75	0.00	202.27	0.00	202.79	0.34	203.31	3.03
201.76	0.00	202.28	0.00	202.80	0.37	203.32	3.07
201.77	0.00	202.29	0.00	202.81	0.41	203.33	3.11
201.78	0.00	202.30	0.00	202.82	0.45	203.34	3.15
201.79	0.00	202.31	0.00	202.83	0.49	203.35	3.19
201.80	0.00	202.32	0.00	202.84	0.53	203.36	3.22
201.81	0.00	202.33	0.00	202.85	0.57	203.37	3.26

Stage-Discharge for Pond B-40: Basin #40 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.38	3.30	203.90	4.80	204.42	5.93	204.94	8.68
203.39	3.33	203.91	4.83	204.43	5.95	204.95	8.80
203.40	3.37	203.92	4.85	204.44	5.97	204.96	8.92
203.41	3.40	203.93	4.87	204.45	5.99	204.97	9.04
203.42	3.44	203.94	4.90	204.46	6.01	204.98	9.16
203.43	3.47	203.95	4.92	204.47	6.03	204.99	9.29
203.44	3.51	203.96	4.95	204.48	6.05	205.00	9.41
203.45	3.54	203.97	4.97	204.49	6.07	205.01	9.54
203.46	3.57	203.98	4.99	204.50	6.08	205.02	9.67
203.47	3.60	203.99	5.02	204.51	6.10	205.03	9.80
203.48	3.64	204.00	5.04	204.52	6.12	205.04	9.93
203.49	3.67	204.01	5.06	204.53	6.14	205.05	10.06
203.50	3.70	204.02	5.09	204.54	6.16	205.06	10.20
203.51	3.73	204.03	5.11	204.55	6.18	205.07	10.33
203.52	3.76	204.04	5.13	204.56	6.20	205.08	10.47
203.53	3.80	204.05	5.15	204.57	6.22	205.09	10.61
203.54	3.83	204.06	5.18	204.58	6.24	205.10	10.75
203.55	3.86	204.07	5.20	204.59	6.25	205.11	10.89
203.56	3.89	204.08	5.22	204.60	6.27	205.12	11.03
203.57	3.92	204.09	5.24	204.61	6.29	205.13	11.17
203.58	3.95	204.10	5.26	204.62	6.31	205.14	11.32
203.59	3.98	204.11	5.29	204.63	6.33	205.15	11.46
203.60	4.01	204.12	5.31	204.64	6.35	205.16	11.61
203.61	4.04	204.13	5.33	204.65	6.36	205.17	11.76
203.62	4.06	204.14	5.35	204.66	6.38	205.18	11.91
203.63	4.09	204.15	5.37	204.67	6.40	205.19	12.06
203.64	4.12	204.16	5.40	204.68	6.43	205.20	12.21
203.65	4.15	204.17	5.42	204.69	6.47	205.21	12.36
203.66	4.18	204.18	5.44	204.70	6.52	205.22	12.52
203.67	4.21	204.19	5.46	204.71	6.58	205.23	12.67
203.68	4.23	204.20	5.48	204.72	6.64	205.24	12.83
203.69	4.26	204.21	5.50	204.73	6.70	205.25	12.99
203.70	4.29	204.22	5.52	204.74	6.77	205.26	13.15
203.71	4.32	204.23	5.54	204.75	6.84	205.27	13.31
203.72	4.34	204.24	5.57	204.76	6.91	205.28	13.47
203.73	4.37	204.25	5.59	204.77	6.99	205.29	13.63
203.74	4.40	204.26	5.61	204.78	7.07	205.30	13.79
203.75	4.42	204.27	5.63	204.79	7.16	205.31	13.95
203.76	4.45	204.28	5.65	204.80	7.24	205.32	14.12
203.77	4.48	204.29	5.67	204.81	7.33	205.33	14.28
203.78	4.50	204.30	5.69	204.82	7.42	205.34	14.45
203.79	4.53	204.31	5.71	204.83	7.51	205.35	14.62
203.80	4.55	204.32	5.73	204.84	7.61	205.36	14.79
203.81	4.58	204.33	5.75	204.85	7.71	205.37	14.96
203.82	4.60	204.34	5.77	204.86	7.81	205.38	15.13
203.83	4.63	204.35	5.79	204.87	7.91	205.39	15.30
203.84	4.65	204.36	5.81	204.88	8.02	205.40	15.47
203.85	4.68	204.37	5.83	204.89	8.12	205.41	15.60
203.86	4.70	204.38	5.85	204.90	8.23	205.42	15.62
203.87	4.73	204.39	5.87	204.91	8.34	205.43	15.64
203.88	4.75	204.40	5.89	204.92	8.45	205.44	15.67
203.89	4.78	204.41	5.91	204.93	8.57	205.45	15.69

Stage-Discharge for Pond B-40: Basin #40 (continued)

Elevation (feet)	Primary (cfs)
205.46	15.71
205.47	15.74
205.48	15.76
205.49	15.78
205.50	15.92
205.51	16.16
205.52	16.46
205.53	16.81
205.54	17.21
205.55	17.64
205.56	18.12
205.57	18.62
205.58	19.16
205.59	19.73
205.60	20.32
205.61	20.95
205.62	21.60
205.63	22.27
205.64	22.97
205.65	23.69
205.66	24.43
205.67	25.20
205.68	25.99
205.69	26.80
205.70	27.67
205.71	28.56
205.72	29.48
205.73	30.43
205.74	31.40
205.75	32.39
205.76	33.41
205.77	34.46
205.78	35.53
205.79	36.62
205.80	37.74
205.81	38.89
205.82	40.05
205.83	41.25
205.84	42.46
205.85	43.70
205.86	44.97
205.87	46.25
205.88	47.57
205.89	48.90
205.90	50.29
205.91	51.70
205.92	53.14
205.93	54.61
205.94	56.10
205.95	57.62
205.96	59.16
205.97	60.73
205.98	62.33
205.99	63.95
206.00	**65.60**

Stage-Area-Storage for Pond B-40: Basin #40

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.30	0	0
201.31	50	0
201.32	101	1
201.33	151	2
201.34	201	4
201.35	252	6
201.36	302	9
201.37	352	12
201.38	402	16
201.39	453	20
201.40	503	25
201.41	553	30
201.42	604	36
201.43	654	43
201.44	704	49
201.45	755	57
201.46	805	64
201.47	855	73
201.48	905	81
201.49	956	91
201.50	1,006	101
201.51	1,056	111
201.52	1,107	122
201.53	1,157	133
201.54	1,207	145
201.55	1,258	157
201.56	1,308	170
201.57	1,358	183
201.58	1,408	197
201.59	1,459	212
201.60	1,509	226
201.61	1,559	242
201.62	1,610	258
201.63	1,660	274
201.64	1,710	291
201.65	1,761	308
201.66	1,811	326
201.67	1,861	344
201.68	1,911	363
201.69	1,962	383
201.70	2,012	402
201.71	2,062	423
201.72	2,113	444
201.73	2,163	465
201.74	2,213	487
201.75	2,263	509
201.76	2,314	532
201.77	2,364	556
201.78	2,414	579
201.79	2,465	604
201.80	2,515	629
201.81	2,565	654
201.82	2,616	680
201.83	2,666	706
201.84	2,716	733
201.85	2,767	761
201.86	2,817	789
201.87	2,867	817
201.88	2,917	846
201.89	2,968	875
201.90	3,018	905
201.91	3,068	936
201.92	3,119	967
201.93	3,169	998
201.94	3,219	1,030
201.95	3,270	1,063
201.96	3,320	1,096
201.97	3,370	1,129
201.98	3,420	1,163
201.99	3,471	1,197
202.00	3,521	1,232
202.01	3,525	1,268
202.02	3,528	1,303
202.03	3,532	1,338
202.04	3,536	1,373
202.05	3,539	1,409
202.06	3,543	1,444
202.07	3,547	1,480
202.08	3,550	1,515
202.09	3,554	1,551
202.10	3,558	1,586
202.11	3,561	1,622
202.12	3,565	1,657
202.13	3,568	1,693
202.14	3,572	1,729
202.15	3,576	1,765
202.16	3,579	1,800
202.17	3,583	1,836
202.18	3,587	1,872
202.19	3,590	1,908
202.20	3,594	1,944
202.21	3,598	1,980
202.22	3,601	2,016
202.23	3,605	2,052
202.24	3,609	2,088
202.25	3,612	2,124
202.26	3,616	2,160
202.27	3,620	2,196
202.28	3,623	2,233
202.29	3,627	2,269
202.30	3,631	2,305
202.31	3,634	2,341
202.32	3,638	2,378
202.33	3,641	2,414

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.34	3,645	2,451	202.86	3,835	4,395
202.35	3,649	2,487	202.87	3,839	4,434
202.36	3,652	2,524	202.88	3,842	4,472
202.37	3,656	2,560	202.89	3,846	4,511
202.38	3,660	2,597	202.90	3,850	4,549
202.39	3,663	2,633	202.91	3,853	4,588
202.40	3,667	2,670	202.92	3,857	4,626
202.41	3,671	2,707	202.93	3,860	4,665
202.42	3,674	2,743	202.94	3,864	4,703
202.43	3,678	2,780	202.95	3,868	4,742
202.44	3,682	2,817	202.96	3,871	4,781
202.45	3,685	2,854	202.97	3,875	4,819
202.46	3,689	2,891	202.98	3,879	4,858
202.47	3,693	2,928	202.99	3,882	4,897
202.48	3,696	2,964	203.00	3,886	4,936
202.49	3,700	3,001	203.01	3,890	4,975
202.50	3,704	3,038	203.02	3,894	5,014
202.51	3,707	3,076	203.03	3,897	5,053
202.52	3,711	3,113	203.04	3,901	5,092
202.53	3,714	3,150	203.05	3,905	5,131
202.54	3,718	3,187	203.06	3,909	5,170
202.55	3,722	3,224	203.07	3,913	5,209
202.56	3,725	3,261	203.08	3,916	5,248
202.57	3,729	3,299	203.09	3,920	5,287
202.58	3,733	3,336	203.10	3,924	5,326
202.59	3,736	3,373	203.11	3,928	5,366
202.60	3,740	3,411	203.12	3,932	5,405
202.61	3,744	3,448	203.13	3,935	5,444
202.62	3,747	3,486	203.14	3,939	5,484
202.63	3,751	3,523	203.15	3,943	5,523
202.64	3,755	3,561	203.16	3,947	5,562
202.65	3,758	3,598	203.17	3,951	5,602
202.66	3,762	3,636	203.18	3,954	5,641
202.67	3,766	3,673	203.19	3,958	5,681
202.68	3,769	3,711	203.20	3,962	5,721
202.69	3,773	3,749	203.21	3,966	5,760
202.70	3,777	3,786	203.22	3,970	5,800
202.71	3,780	3,824	203.23	3,973	5,840
202.72	3,784	3,862	203.24	3,977	5,879
202.73	3,787	3,900	203.25	3,981	5,919
202.74	3,791	3,938	203.26	3,985	5,959
202.75	3,795	3,976	203.27	3,989	5,999
202.76	3,798	4,014	203.28	3,992	6,039
202.77	3,802	4,052	203.29	3,996	6,079
202.78	3,806	4,090	203.30	4,000	6,119
202.79	3,809	4,128	203.31	4,004	6,159
202.80	3,813	4,166	203.32	4,008	6,199
202.81	3,817	4,204	203.33	4,011	6,239
202.82	3,820	4,242	203.34	4,015	6,279
202.83	3,824	4,281	203.35	4,019	6,319
202.84	3,828	4,319	203.36	4,023	6,359
202.85	3,831	4,357	203.37	4,027	6,400

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.38	4,030	6,440
203.39	4,034	6,480
203.40	4,038	6,521
203.41	4,042	6,561
203.42	4,046	6,601
203.43	4,049	6,642
203.44	4,053	6,682
203.45	4,057	6,723
203.46	4,061	6,764
203.47	4,065	6,804
203.48	4,068	6,845
203.49	4,072	6,886
203.50	4,076	6,926
203.51	4,080	6,967
203.52	4,084	7,008
203.53	4,087	7,049
203.54	4,091	7,090
203.55	4,095	7,131
203.56	4,099	7,172
203.57	4,103	7,213
203.58	4,106	7,254
203.59	4,110	7,295
203.60	4,114	7,336
203.61	4,118	7,377
203.62	4,122	7,418
203.63	4,125	7,459
203.64	4,129	7,501
203.65	4,133	7,542
203.66	4,137	7,583
203.67	4,141	7,625
203.68	4,144	7,666
203.69	4,148	7,708
203.70	4,152	7,749
203.71	4,156	7,791
203.72	4,160	7,832
203.73	4,163	7,874
203.74	4,167	7,916
203.75	4,171	7,957
203.76	4,175	7,999
203.77	4,179	8,041
203.78	4,182	8,083
203.79	4,186	8,124
203.80	4,190	8,166
203.81	4,194	8,208
203.82	4,198	8,250
203.83	4,201	8,292
203.84	4,205	8,334
203.85	4,209	8,376
203.86	4,213	8,418
203.87	4,217	8,460
203.88	4,220	8,503
203.89	4,224	8,545
203.90	4,228	8,587
203.91	4,232	8,629
203.92	4,236	8,672
203.93	4,239	8,714
203.94	4,243	8,757
203.95	4,247	8,799
203.96	4,251	8,842
203.97	4,255	8,884
203.98	4,258	8,927
203.99	4,262	8,969
204.00	4,266	9,012
204.01	4,270	9,055
204.02	4,274	9,097
204.03	4,278	9,140
204.04	4,282	9,183
204.05	4,286	9,226
204.06	4,290	9,269
204.07	4,294	9,311
204.08	4,298	9,354
204.09	4,301	9,397
204.10	4,305	9,440
204.11	4,309	9,483
204.12	4,313	9,527
204.13	4,317	9,570
204.14	4,321	9,613
204.15	4,325	9,656
204.16	4,329	9,699
204.17	4,333	9,743
204.18	4,337	9,786
204.19	4,341	9,830
204.20	4,345	9,873
204.21	4,349	9,916
204.22	4,353	9,960
204.23	4,357	10,003
204.24	4,361	10,047
204.25	4,365	10,091
204.26	4,368	10,134
204.27	4,372	10,178
204.28	4,376	10,222
204.29	4,380	10,266
204.30	4,384	10,309
204.31	4,388	10,353
204.32	4,392	10,397
204.33	4,396	10,441
204.34	4,400	10,485
204.35	4,404	10,529
204.36	4,408	10,573
204.37	4,412	10,617
204.38	4,416	10,661
204.39	4,420	10,706
204.40	4,424	10,750
204.41	4,428	10,794

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.42	4,431	10,838	204.94	4,636	13,196
204.43	4,435	10,883	204.95	4,640	13,242
204.44	4,439	10,927	204.96	4,644	13,289
204.45	4,443	10,971	204.97	4,648	13,335
204.46	4,447	11,016	204.98	4,652	13,382
204.47	4,451	11,060	204.99	4,656	13,428
204.48	4,455	11,105	205.00	4,660	13,475
204.49	4,459	11,149	205.01	4,664	13,521
204.50	4,463	11,194	205.02	4,668	13,568
204.51	4,467	11,239	205.03	4,672	13,615
204.52	4,471	11,283	205.04	4,676	13,662
204.53	4,475	11,328	205.05	4,680	13,708
204.54	4,479	11,373	205.06	4,685	13,755
204.55	4,483	11,418	205.07	4,689	13,802
204.56	4,487	11,463	205.08	4,693	13,849
204.57	4,491	11,507	205.09	4,697	13,896
204.58	4,495	11,552	205.10	4,701	13,943
204.59	4,498	11,597	205.11	4,705	13,990
204.60	4,502	11,642	205.12	4,709	14,037
204.61	4,506	11,687	205.13	4,713	14,084
204.62	4,510	11,732	205.14	4,717	14,131
204.63	4,514	11,778	205.15	4,721	14,178
204.64	4,518	11,823	205.16	4,725	14,226
204.65	4,522	11,868	205.17	4,730	14,273
204.66	4,526	11,913	205.18	4,734	14,320
204.67	4,530	11,959	205.19	4,738	14,368
204.68	4,534	12,004	205.20	4,742	14,415
204.69	4,538	12,049	205.21	4,746	14,462
204.70	4,542	12,095	205.22	4,750	14,510
204.71	4,546	12,140	205.23	4,754	14,557
204.72	4,550	12,185	205.24	4,758	14,605
204.73	4,554	12,231	205.25	4,762	14,653
204.74	4,558	12,277	205.26	4,766	14,700
204.75	4,562	12,322	205.27	4,770	14,748
204.76	4,565	12,368	205.28	4,775	14,796
204.77	4,569	12,413	205.29	4,779	14,843
204.78	4,573	12,459	205.30	4,783	14,891
204.79	4,577	12,505	205.31	4,787	14,939
204.80	4,581	12,551	205.32	4,791	14,987
204.81	4,585	12,597	205.33	4,795	15,035
204.82	4,589	12,642	205.34	4,799	15,083
204.83	4,593	12,688	205.35	4,803	15,131
204.84	4,597	12,734	205.36	4,807	15,179
204.85	4,601	12,780	205.37	4,811	15,227
204.86	4,605	12,826	205.38	4,815	15,275
204.87	4,609	12,872	205.39	4,820	15,323
204.88	4,613	12,918	205.40	4,824	15,372
204.89	4,617	12,965	205.41	4,828	15,420
204.90	4,621	13,011	205.42	4,832	15,468
204.91	4,625	13,057	205.43	4,836	15,516
204.92	4,628	13,103	205.44	4,840	15,565
204.93	4,632	13,150	205.45	4,844	15,613

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

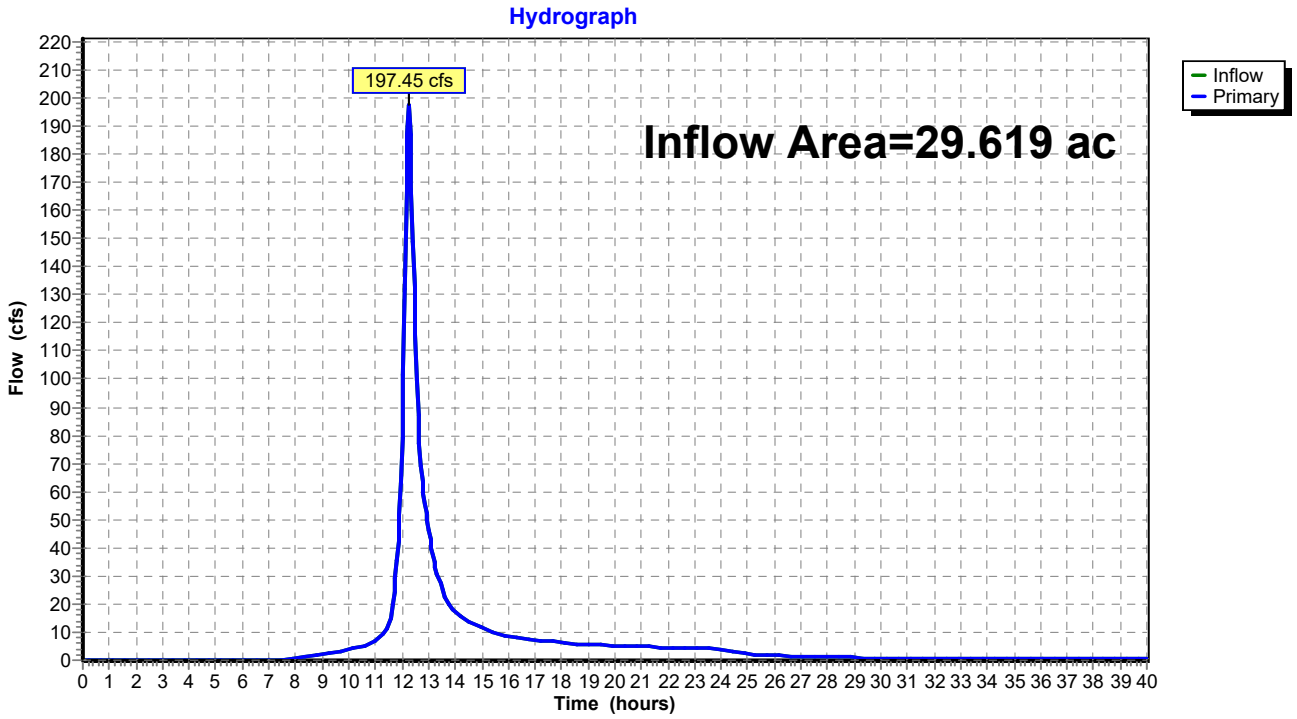
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.46	4,848	15,662
205.47	4,852	15,710
205.48	4,856	15,759
205.49	4,860	15,807
205.50	4,865	15,856
205.51	4,869	15,905
205.52	4,873	15,953
205.53	4,877	16,002
205.54	4,881	16,051
205.55	4,885	16,100
205.56	4,889	16,149
205.57	4,893	16,197
205.58	4,897	16,246
205.59	4,901	16,295
205.60	4,905	16,344
205.61	4,909	16,394
205.62	4,914	16,443
205.63	4,918	16,492
205.64	4,922	16,541
205.65	4,926	16,590
205.66	4,930	16,640
205.67	4,934	16,689
205.68	4,938	16,738
205.69	4,942	16,788
205.70	4,946	16,837
205.71	4,950	16,887
205.72	4,954	16,936
205.73	4,959	16,986
205.74	4,963	17,035
205.75	4,967	17,085
205.76	4,971	17,135
205.77	4,975	17,184
205.78	4,979	17,234
205.79	4,983	17,284
205.80	4,987	17,334
205.81	4,991	17,384
205.82	4,995	17,434
205.83	4,999	17,484
205.84	5,004	17,534
205.85	5,008	17,584
205.86	5,012	17,634
205.87	5,016	17,684
205.88	5,020	17,734
205.89	5,024	17,784
205.90	5,028	17,834
205.91	5,032	17,885
205.92	5,036	17,935
205.93	5,040	17,986
205.94	5,044	18,036
205.95	5,049	18,086
205.96	5,053	18,137
205.97	5,057	18,187
205.98	5,061	18,238
205.99	5,065	18,289
206.00	**5,069**	**18,339**

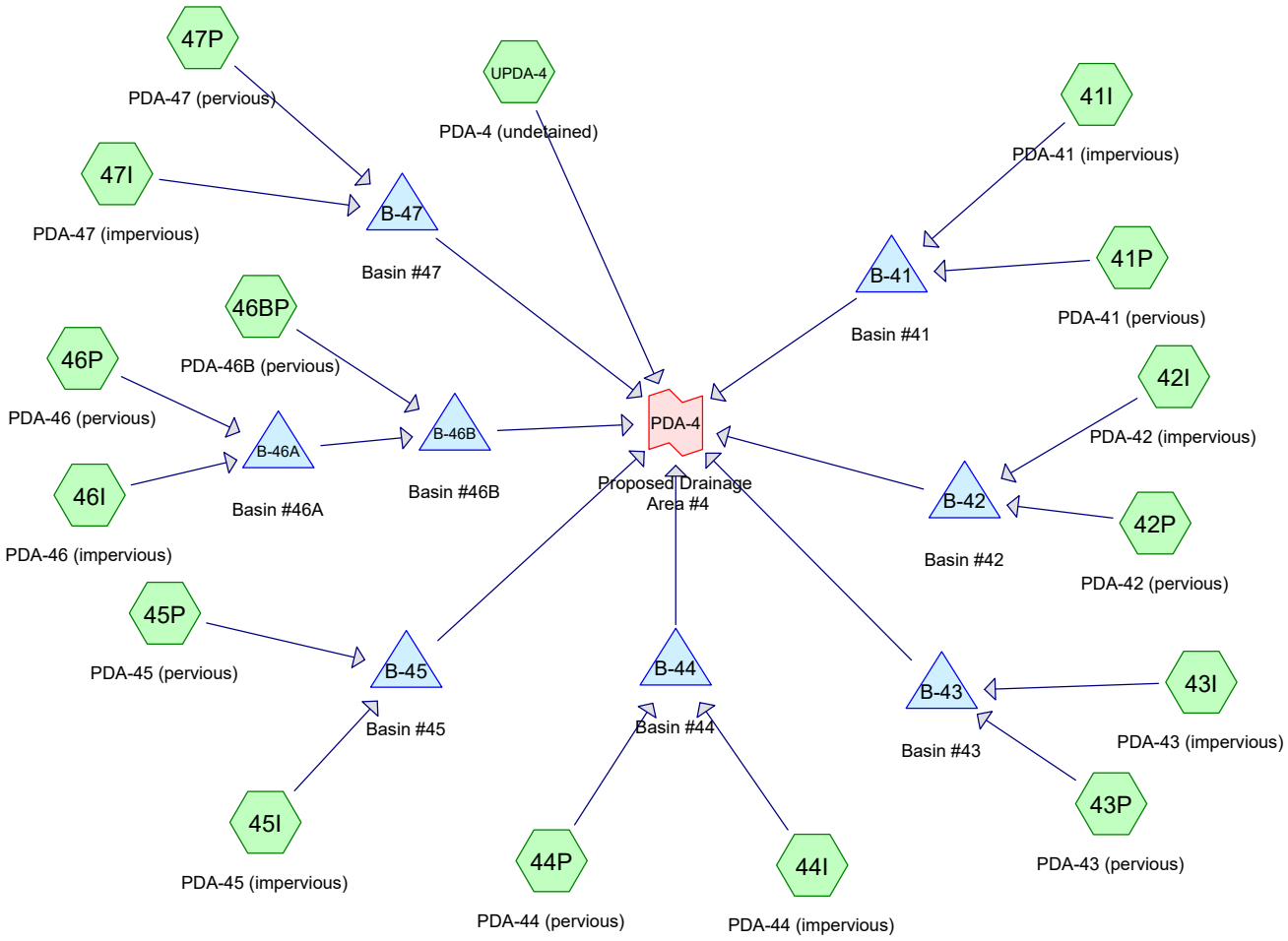
Summary for Link PDA-3: Proposed Drainage Area #3

Inflow Area = 29.619 ac, 38.13% Impervious, Inflow Depth > 8.47" for Future 100 yr event
Inflow = 197.45 cfs @ 12.25 hrs, Volume= 20.905 af
Primary = 197.45 cfs @ 12.25 hrs, Volume= 20.905 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-3: Proposed Drainage Area #3





Subcat Reach Pond Link

Routing Diagram for 2025-04-04 Proposed- 081391_4
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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
18.699	74	>75% Grass cover, Good, HSG C (41P, 42P, 43P, 44P, 45P, 46BP, 46P, 47P, UPDA-4)
0.133	98	Concrete, HSC C (41I, 43I, 44I)
0.084	98	Concrete, HSG C (45I, 46I, 47I)
1.813	98	Pavement, HSG C (41I, 43I, 44I, 45I, 46I, 47I)
3.620	98	Roof, HSG C (41I, 42I, 43I, 44I, 45I, 46I, 47I)
24.349	**80**	**TOTAL AREA**

Summary for Subcatchment 41I: PDA-41 (impervious)

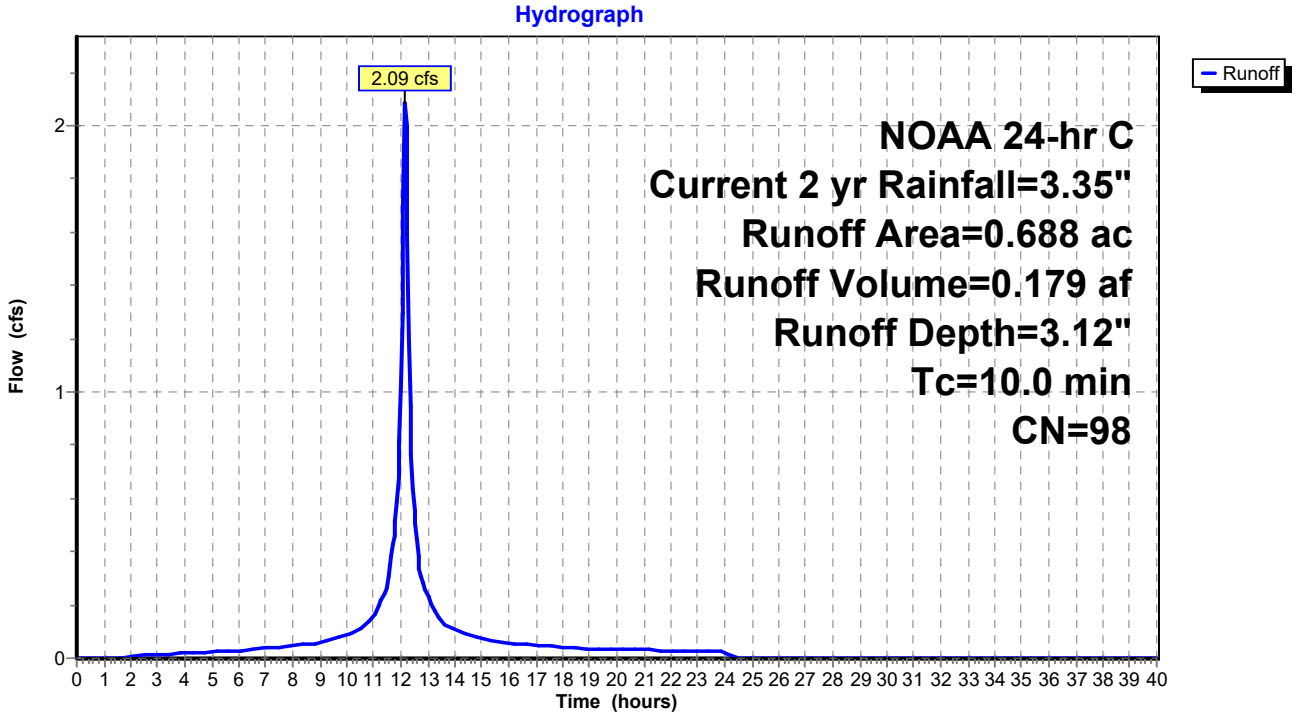
Runoff = 2.09 cfs @ 12.17 hrs, Volume= 0.179 af, Depth= 3.12"
Routed to Pond B-41 : Basin #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

	Area (ac)	CN	Description
*	0.136	98	Pavement, HSG C
*	0.514	98	Roof, HSG C
*	0.038	98	Concrete, HSC C
	0.688	98	Weighted Average
	0.688		100.00% Impervious Area

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

Subcatchment 41I: PDA-41 (impervious)



Summary for Subcatchment 41P: PDA-41 (pervious)

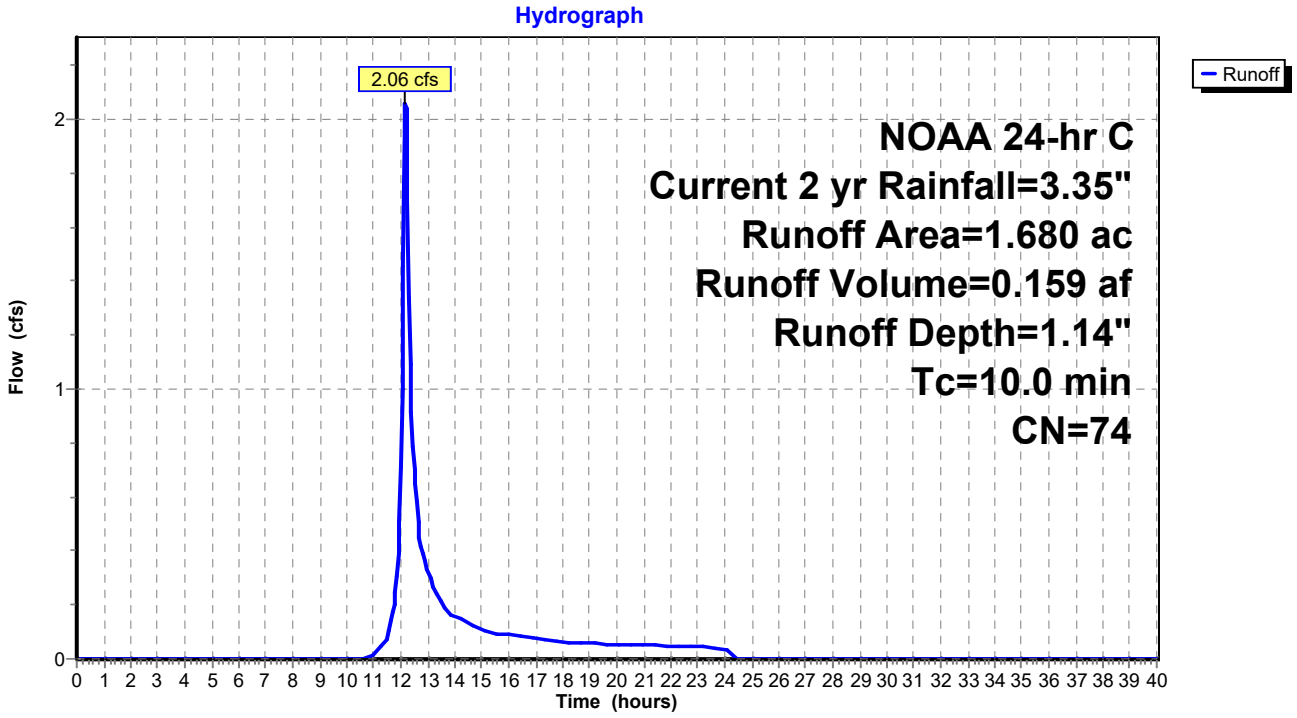
Runoff = 2.06 cfs @ 12.18 hrs, Volume= 0.159 af, Depth= 1.14"
Routed to Pond B-41 : Basin #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.680	74	>75% Grass cover, Good, HSG C
1.680		100.00% Pervious Area

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

Subcatchment 41P: PDA-41 (pervious)



Summary for Subcatchment 42I: PDA-42 (impervious)

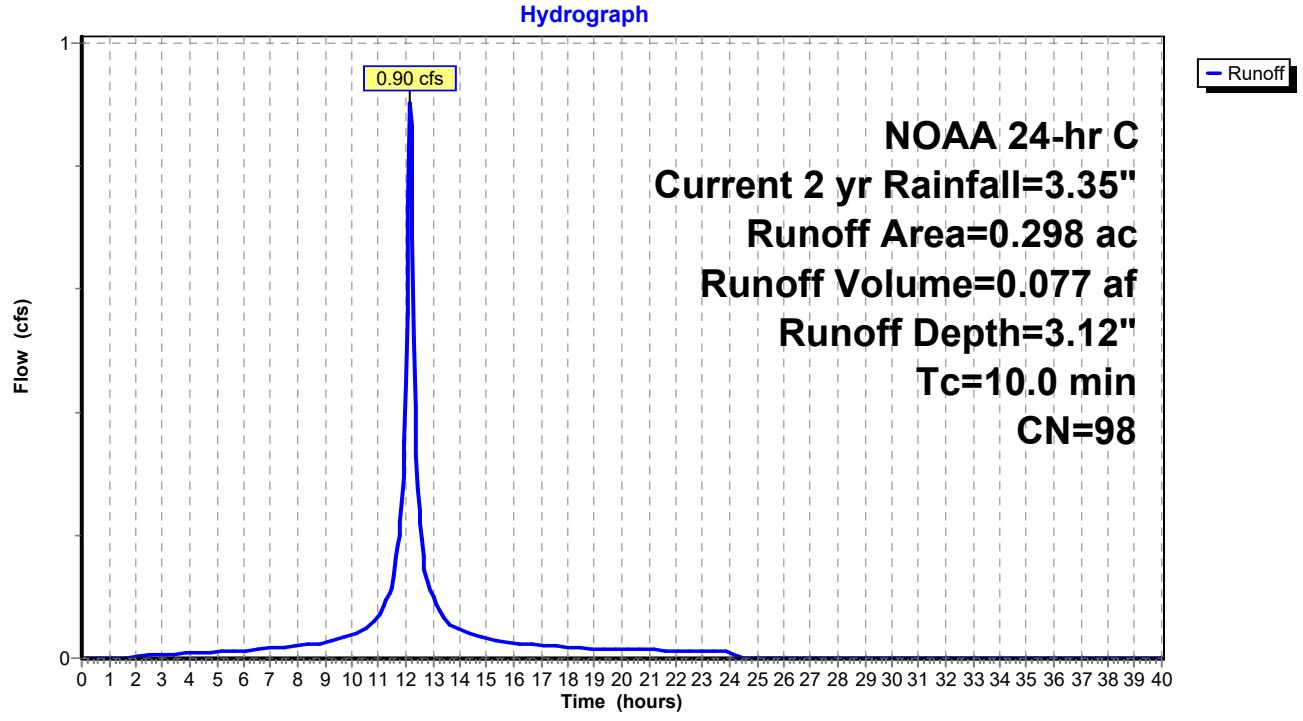
Runoff = 0.90 cfs @ 12.17 hrs, Volume= 0.077 af, Depth= 3.12"
Routed to Pond B-42 : Basin #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

	Area (ac)	CN	Description
*	0.000	98	Pavement, HSG C
*	0.298	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.298	98	Weighted Average
	0.298		100.00% Impervious Area

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

Subcatchment 42I: PDA-42 (impervious)



Summary for Subcatchment 42P: PDA-42 (pervious)

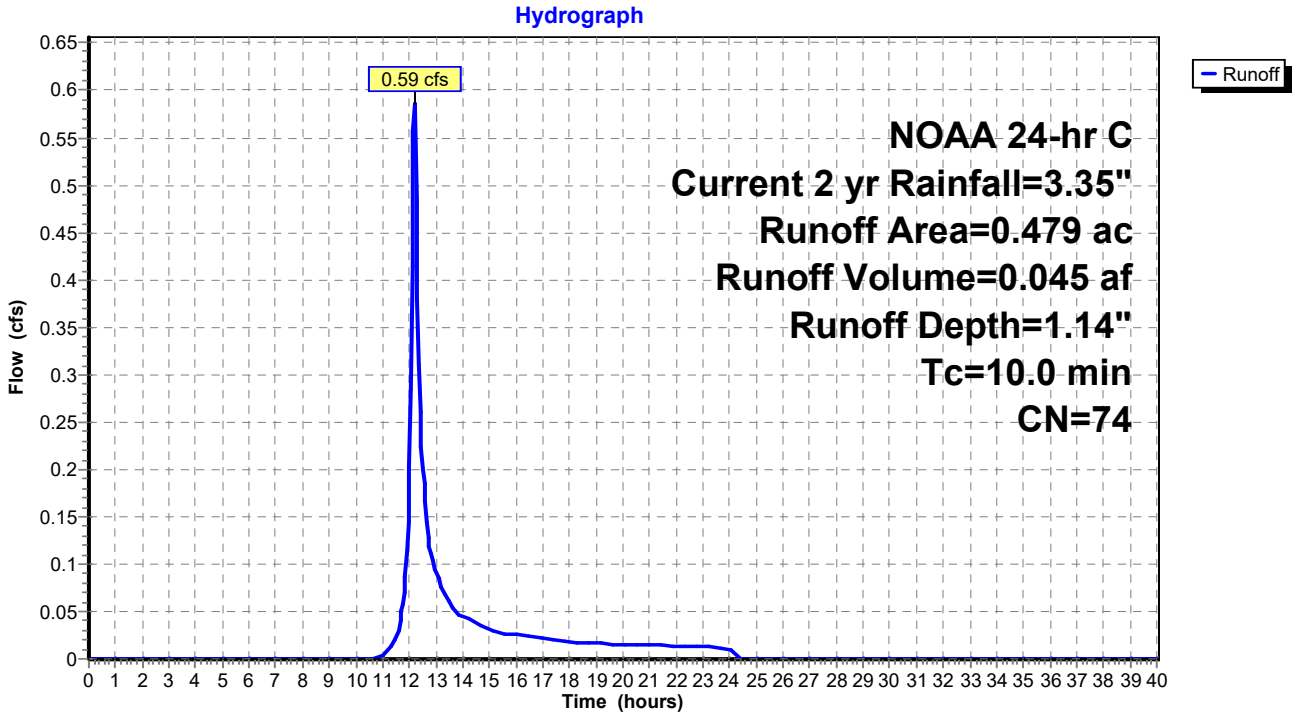
Runoff = 0.59 cfs @ 12.18 hrs, Volume= 0.045 af, Depth= 1.14"
Routed to Pond B-42 : Basin #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.479	74	>75% Grass cover, Good, HSG C
0.479		100.00% Pervious Area

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

Subcatchment 42P: PDA-42 (pervious)



Summary for Subcatchment 43I: PDA-43 (impervious)

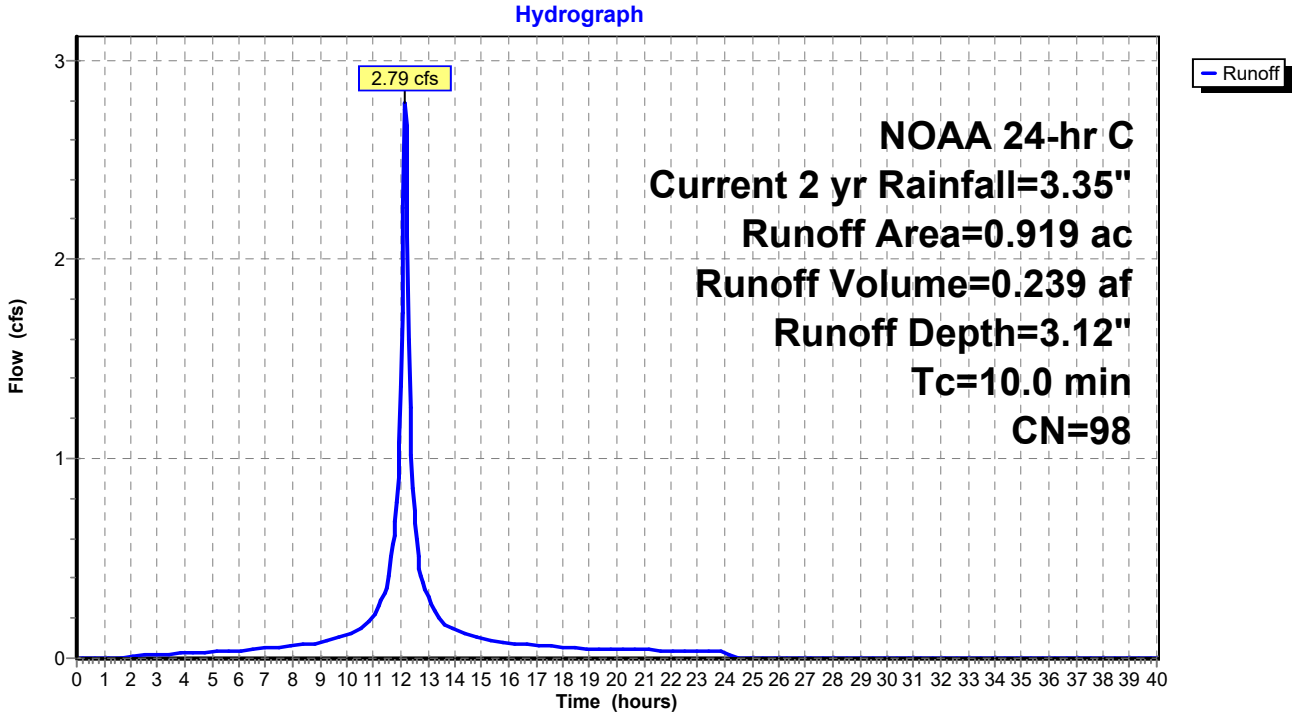
Runoff = 2.79 cfs @ 12.17 hrs, Volume= 0.239 af, Depth= 3.12"
Routed to Pond B-43 : Basin #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

	Area (ac)	CN	Description
*	0.326	98	Pavement, HSG C
*	0.522	98	Roof, HSG C
*	0.071	98	Concrete, HSC C
	0.919	98	Weighted Average
	0.919		100.00% Impervious Area

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

Subcatchment 43I: PDA-43 (impervious)



Summary for Subcatchment 43P: PDA-43 (pervious)

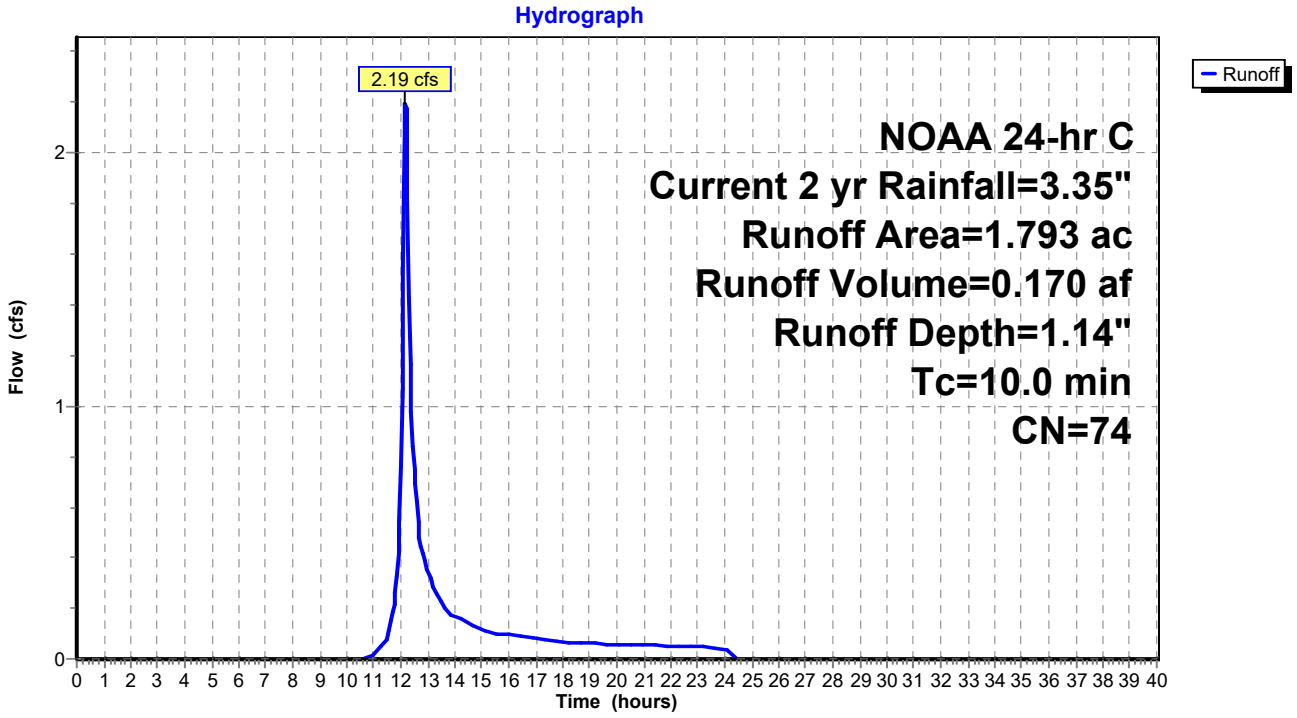
Runoff = 2.19 cfs @ 12.18 hrs, Volume= 0.170 af, Depth= 1.14"
Routed to Pond B-43 : Basin #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.793	74	>75% Grass cover, Good, HSG C
1.793		100.00% Pervious Area

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

Subcatchment 43P: PDA-43 (pervious)



Summary for Subcatchment 44I: PDA-44 (impervious)

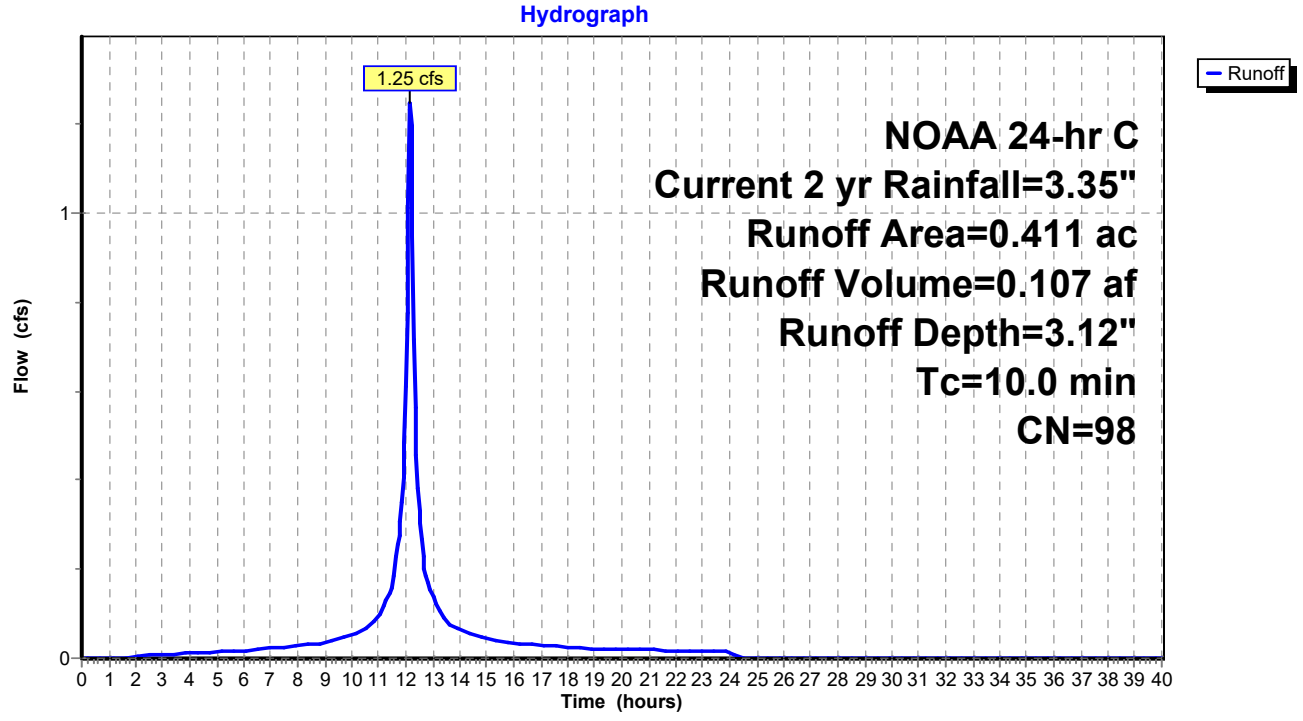
Runoff = 1.25 cfs @ 12.17 hrs, Volume= 0.107 af, Depth= 3.12"
Routed to Pond B-44 : Basin #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

	Area (ac)	CN	Description
*	0.283	98	Pavement, HSG C
*	0.104	98	Roof, HSG C
*	0.024	98	Concrete, HSC C
	0.411	98	Weighted Average
	0.411		100.00% Impervious Area

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

Subcatchment 44I: PDA-44 (impervious)



Summary for Subcatchment 44P: PDA-44 (pervious)

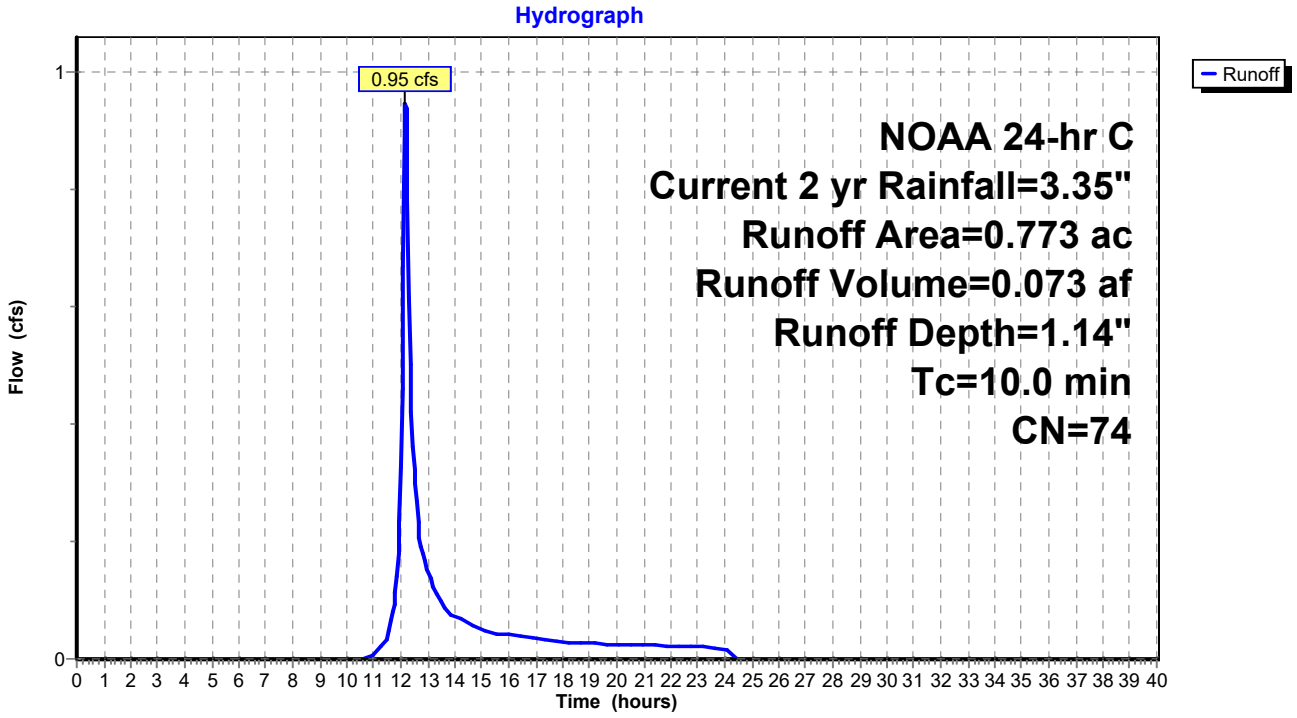
Runoff = 0.95 cfs @ 12.18 hrs, Volume= 0.073 af, Depth= 1.14"
Routed to Pond B-44 : Basin #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.773	74	>75% Grass cover, Good, HSG C
0.773		100.00% Pervious Area

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

Subcatchment 44P: PDA-44 (pervious)



Summary for Subcatchment 45l: PDA-45 (impervious)

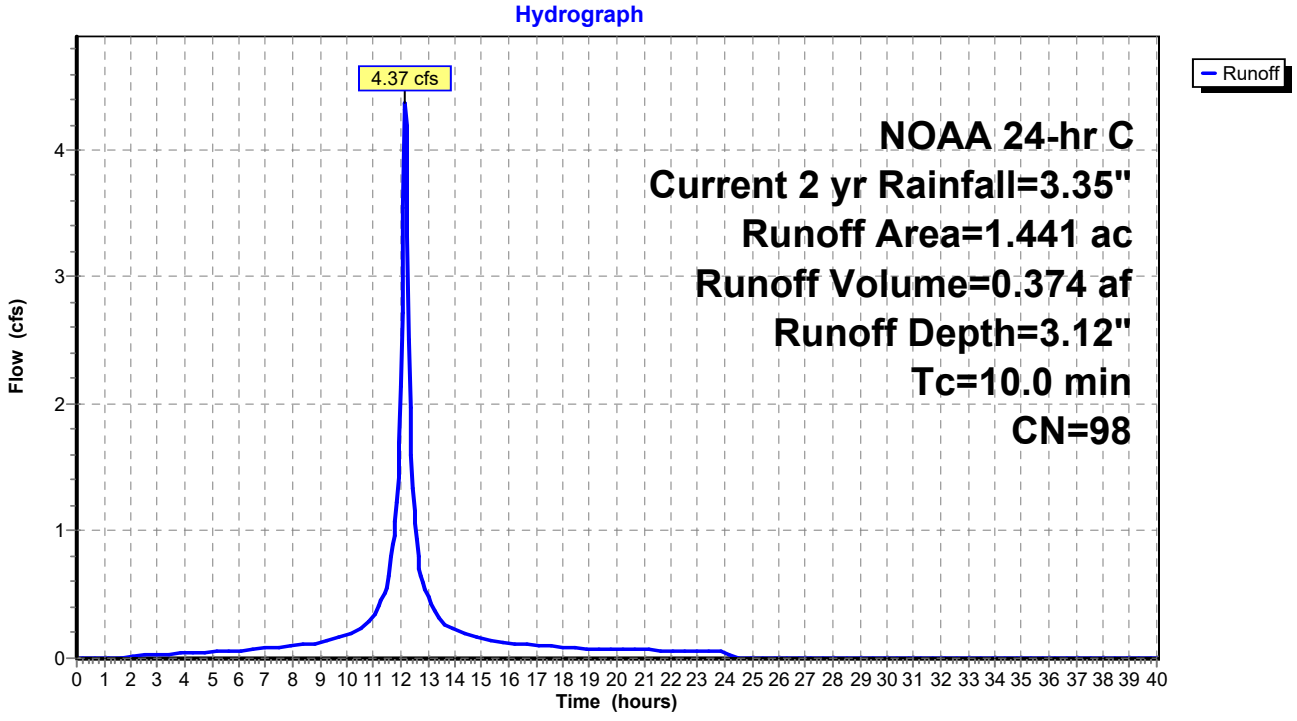
Runoff = 4.37 cfs @ 12.17 hrs, Volume= 0.374 af, Depth= 3.12"
Routed to Pond B-45 : Basin #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

	Area (ac)	CN	Description
*	0.394	98	Pavement, HSG C
*	1.045	98	Roof, HSG C
*	0.002	98	Concrete, HSG C
	1.441	98	Weighted Average
	1.441		100.00% Impervious Area

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

Subcatchment 45l: PDA-45 (impervious)



Summary for Subcatchment 45P: PDA-45 (pervious)

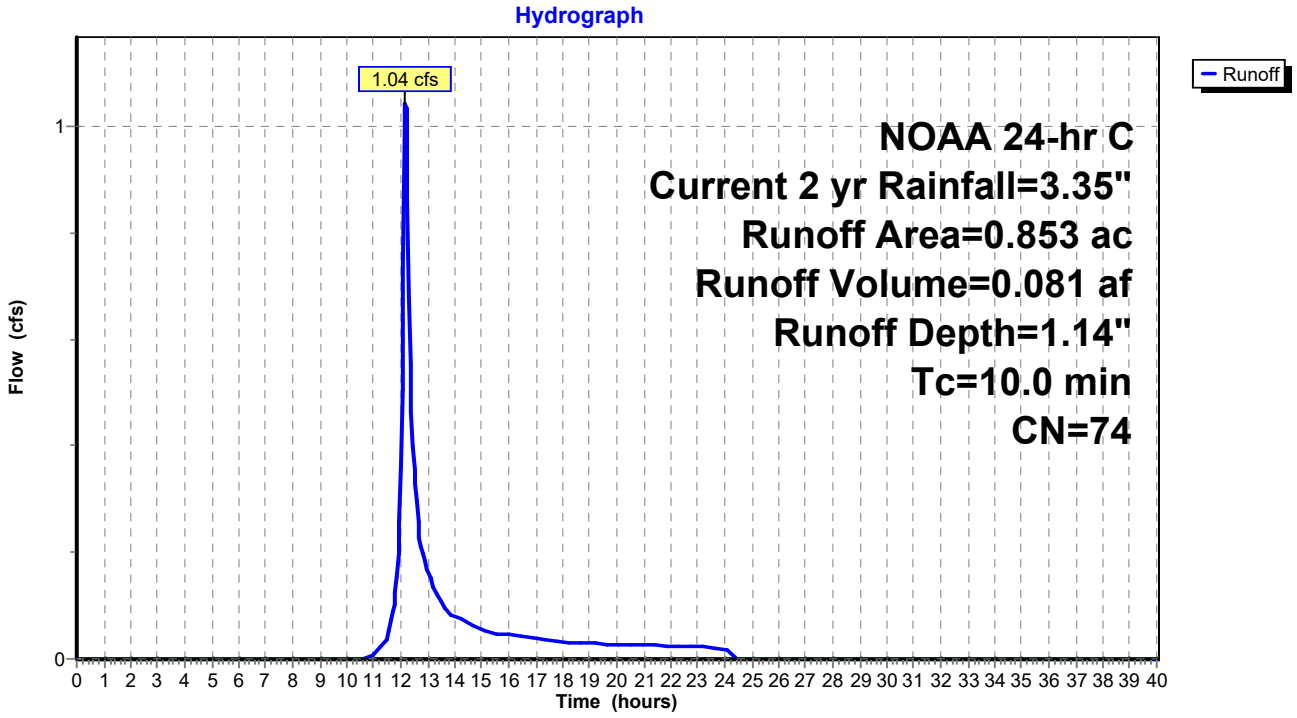
Runoff = 1.04 cfs @ 12.18 hrs, Volume= 0.081 af, Depth= 1.14"
Routed to Pond B-45 : Basin #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.853	74	>75% Grass cover, Good, HSG C
0.853		100.00% Pervious Area

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

Subcatchment 45P: PDA-45 (pervious)



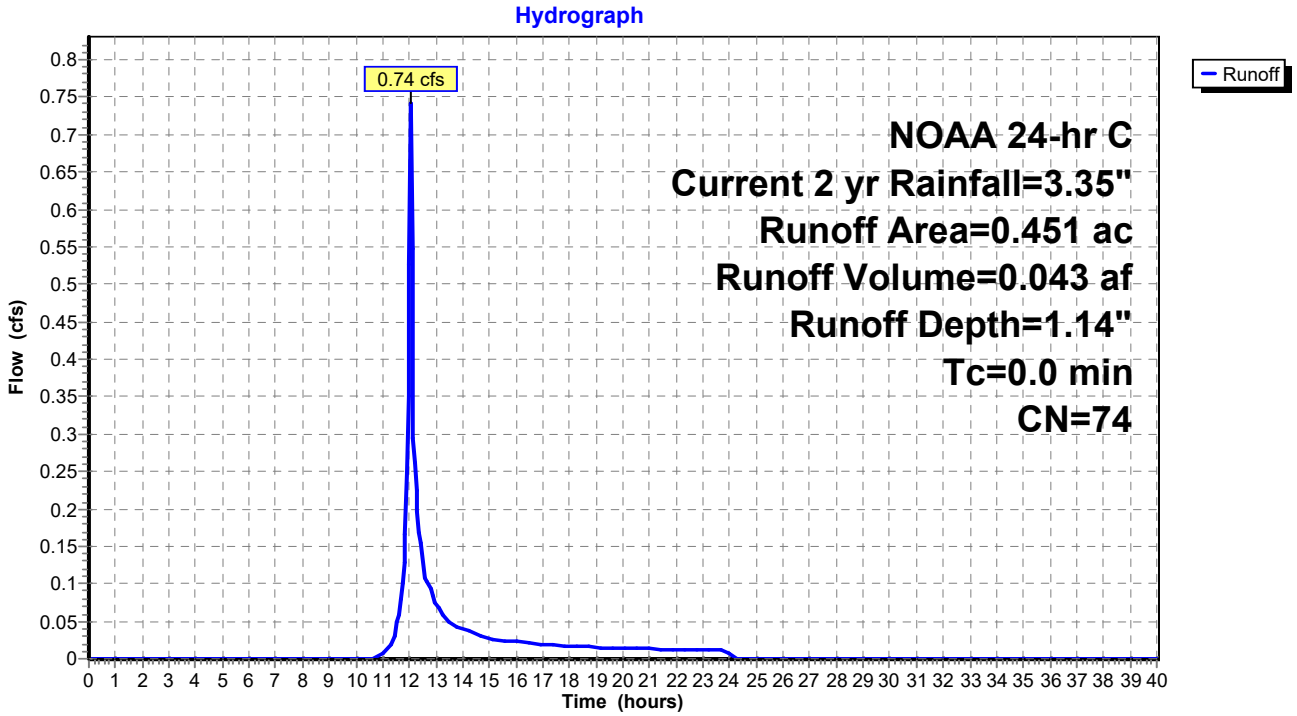
Summary for Subcatchment 46BP: PDA-46B (pervious)

Runoff = 0.74 cfs @ 12.05 hrs, Volume= 0.043 af, Depth= 1.14"
Routed to Pond B-46B : Basin #46B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.451	74	>75% Grass cover, Good, HSG C
0.451		100.00% Pervious Area

Subcatchment 46BP: PDA-46B (pervious)



Summary for Subcatchment 46I: PDA-46 (impervious)

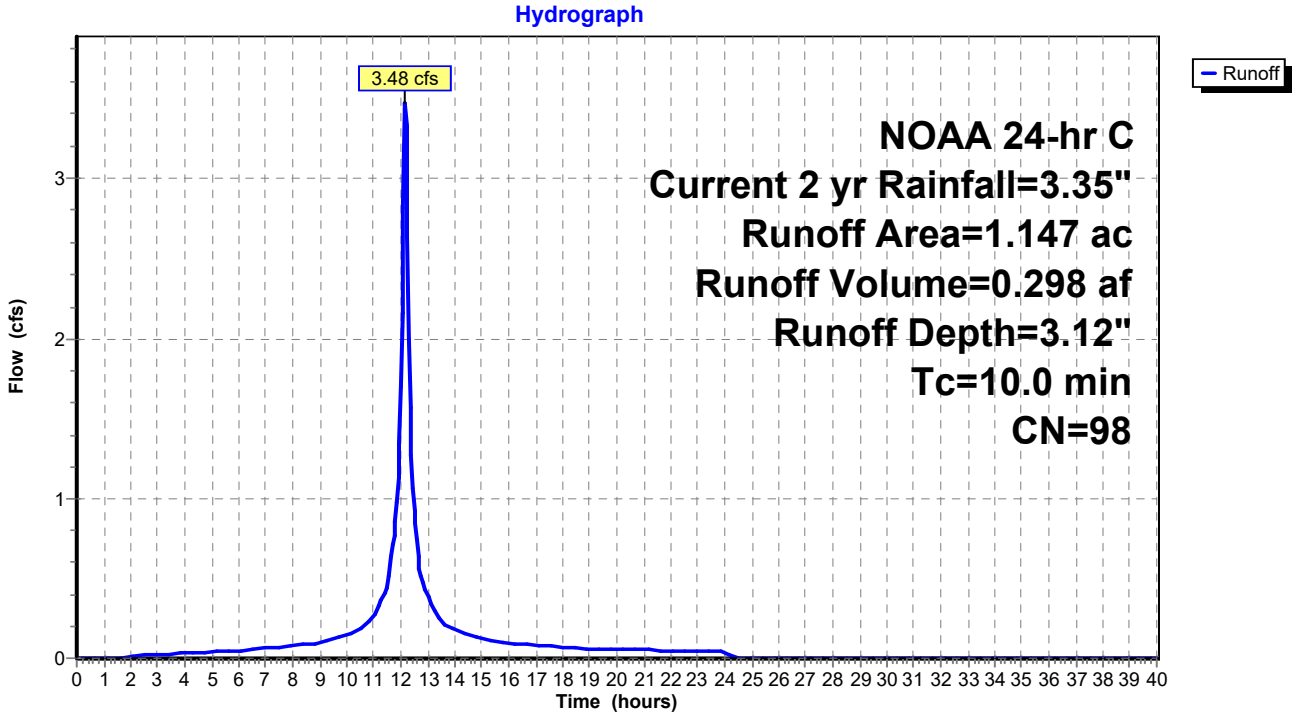
Runoff = 3.48 cfs @ 12.17 hrs, Volume= 0.298 af, Depth= 3.12"
Routed to Pond B-46A : Basin #46A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

	Area (ac)	CN	Description
*	0.430	98	Pavement, HSG C
*	0.653	98	Roof, HSG C
*	0.064	98	Concrete, HSG C
	1.147	98	Weighted Average
	1.147		100.00% Impervious Area

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

Subcatchment 46I: PDA-46 (impervious)



Summary for Subcatchment 46P: PDA-46 (pervious)

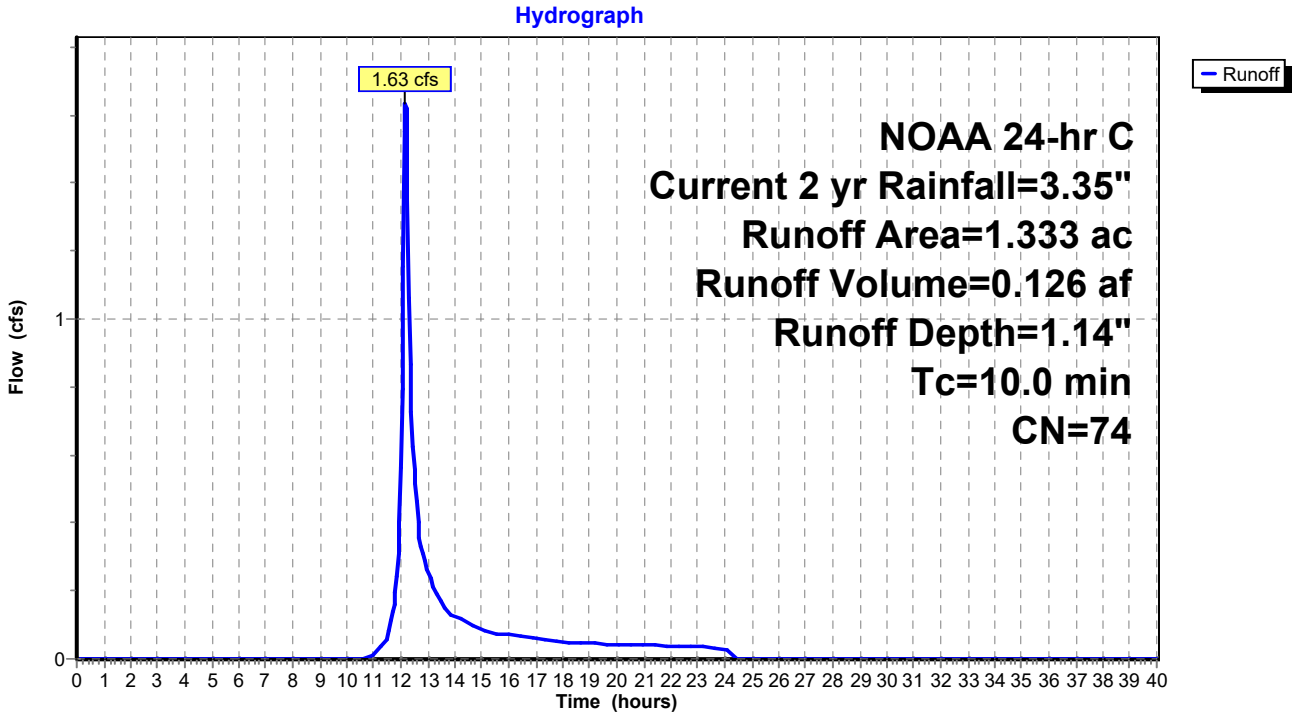
Runoff = 1.63 cfs @ 12.18 hrs, Volume= 0.126 af, Depth= 1.14"
Routed to Pond B-46A : Basin #46A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.333	74	>75% Grass cover, Good, HSG C
1.333		100.00% Pervious Area

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

Subcatchment 46P: PDA-46 (pervious)



Summary for Subcatchment 47I: PDA-47 (impervious)

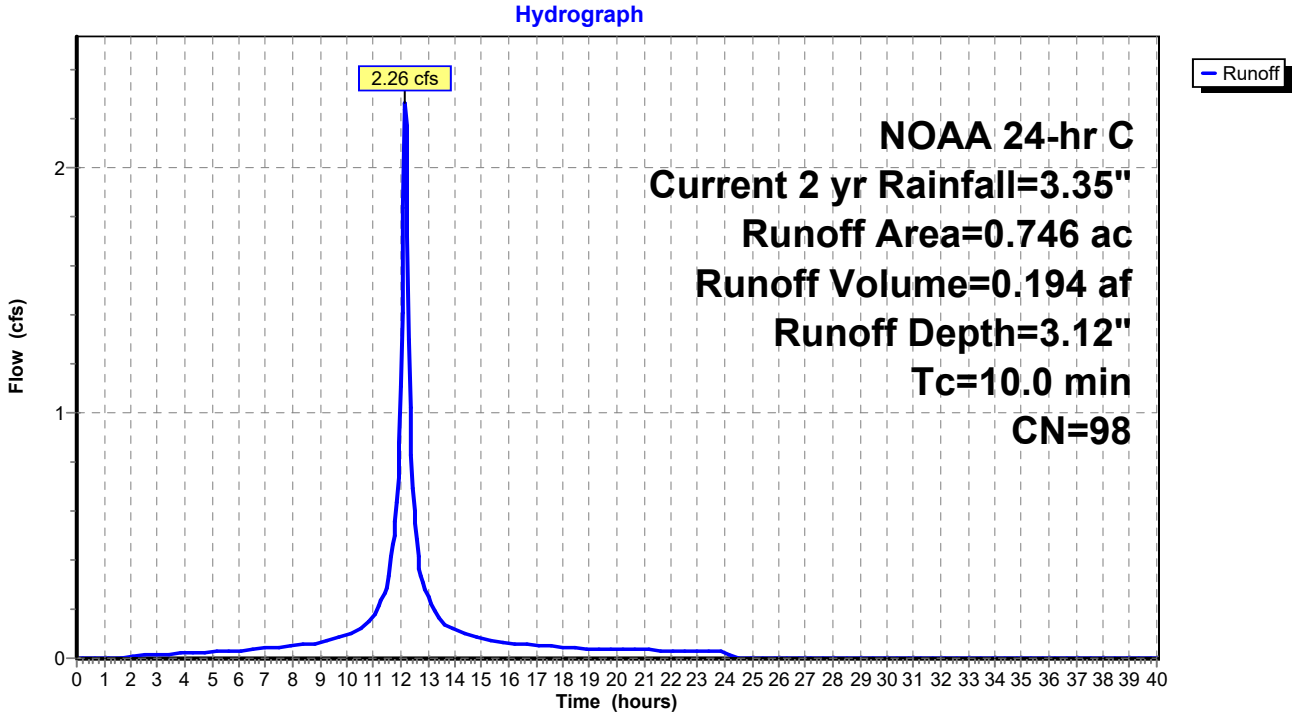
Runoff = 2.26 cfs @ 12.17 hrs, Volume= 0.194 af, Depth= 3.12"
Routed to Pond B-47 : Basin #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

	Area (ac)	CN	Description
*	0.244	98	Pavement, HSG C
*	0.484	98	Roof, HSG C
*	0.018	98	Concrete, HSG C
	0.746	98	Weighted Average
	0.746		100.00% Impervious Area

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

Subcatchment 47I: PDA-47 (impervious)



Summary for Subcatchment 47P: PDA-47 (pervious)

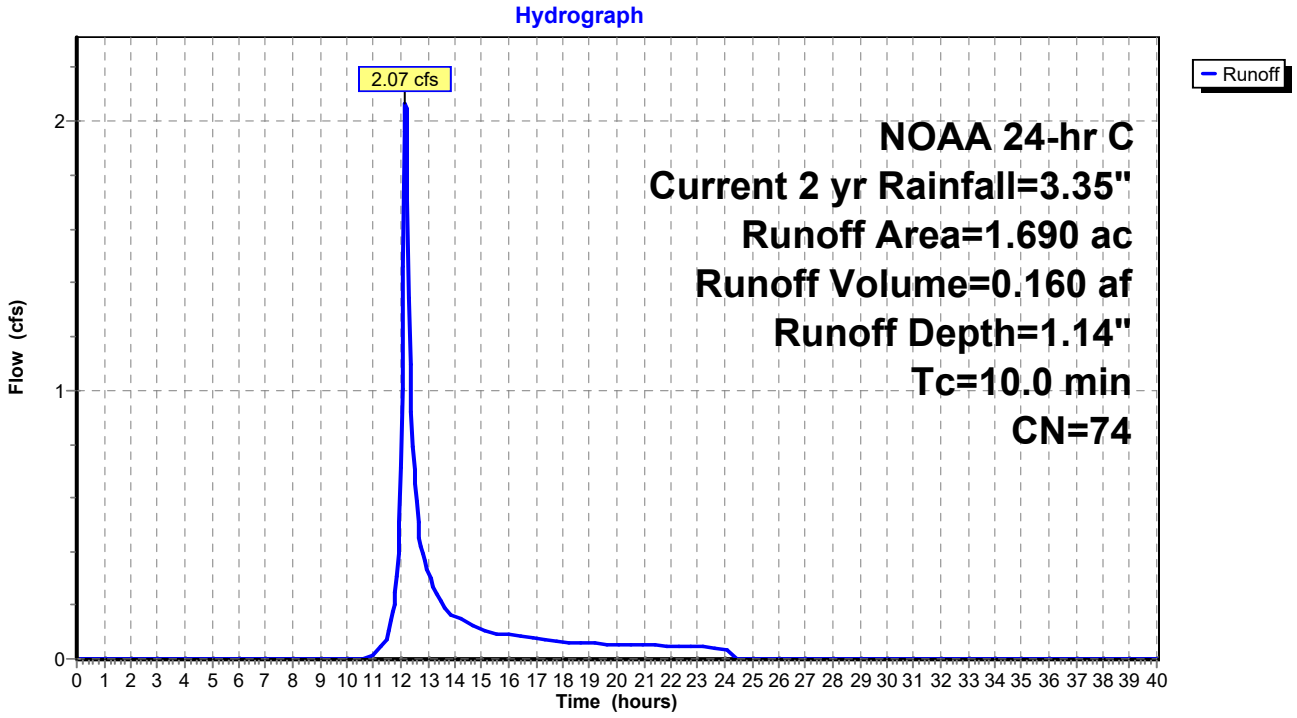
Runoff = 2.07 cfs @ 12.18 hrs, Volume= 0.160 af, Depth= 1.14"
Routed to Pond B-47 : Basin #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.690	74	>75% Grass cover, Good, HSG C
1.690		100.00% Pervious Area

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

Subcatchment 47P: PDA-47 (pervious)



Summary for Subcatchment UPDA-4: PDA-4 (undetained)

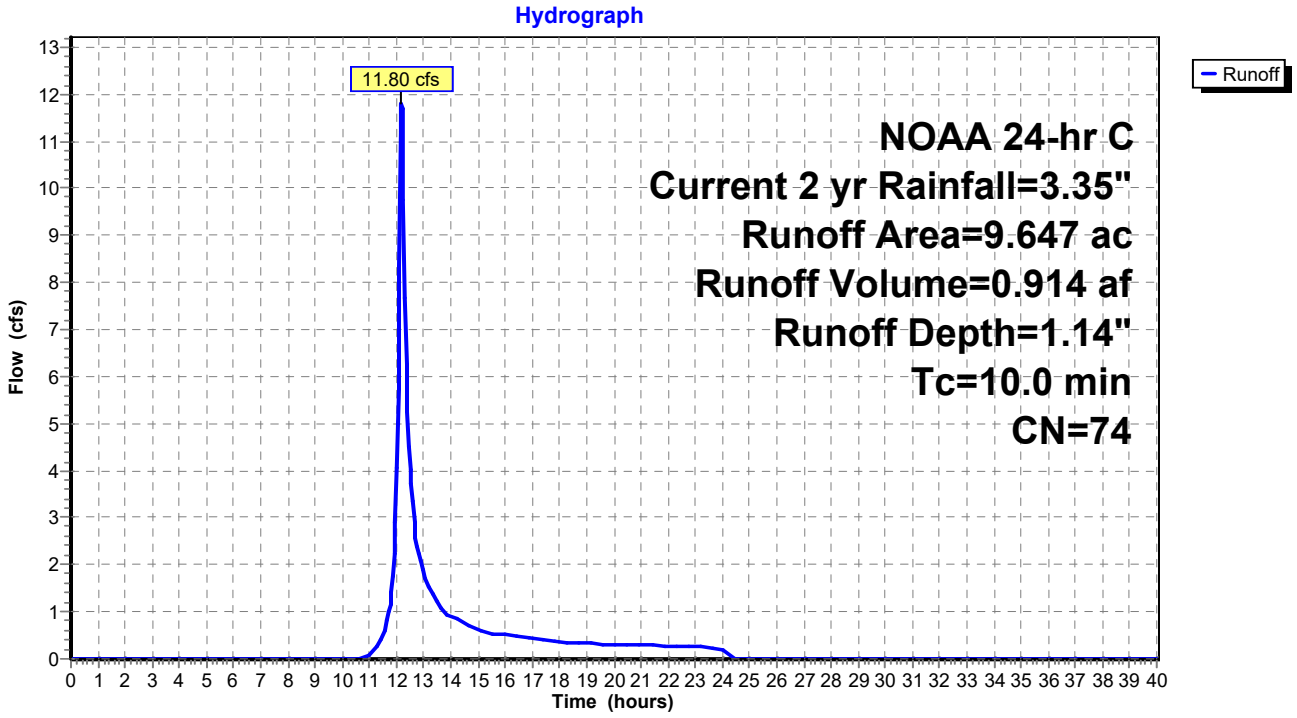
Runoff = 11.80 cfs @ 12.18 hrs, Volume= 0.914 af, Depth= 1.14"
Routed to Link PDA-4 : Proposed Drainage Area #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
9.647	74	>75% Grass cover, Good, HSG C
9.647		100.00% Pervious Area

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

Subcatchment UPDA-4: PDA-4 (undetained)



Summary for Pond B-41: Basin #41

Inflow Area = 2.368 ac, 29.05% Impervious, Inflow Depth = 1.71" for Current 2 yr event
Inflow = 4.12 cfs @ 12.18 hrs, Volume= 0.338 af
Outflow = 0.20 cfs @ 14.73 hrs, Volume= 0.281 af, Atten= 95%, Lag= 153.5 min
Primary = 0.20 cfs @ 14.73 hrs, Volume= 0.281 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 184.13' @ 14.73 hrs Surf.Area= 4,950 sf Storage= 9,442 cf

Plug-Flow detention time= 567.9 min calculated for 0.281 af (83% of inflow)
Center-of-Mass det. time= 492.8 min (1,303.1 - 810.3)

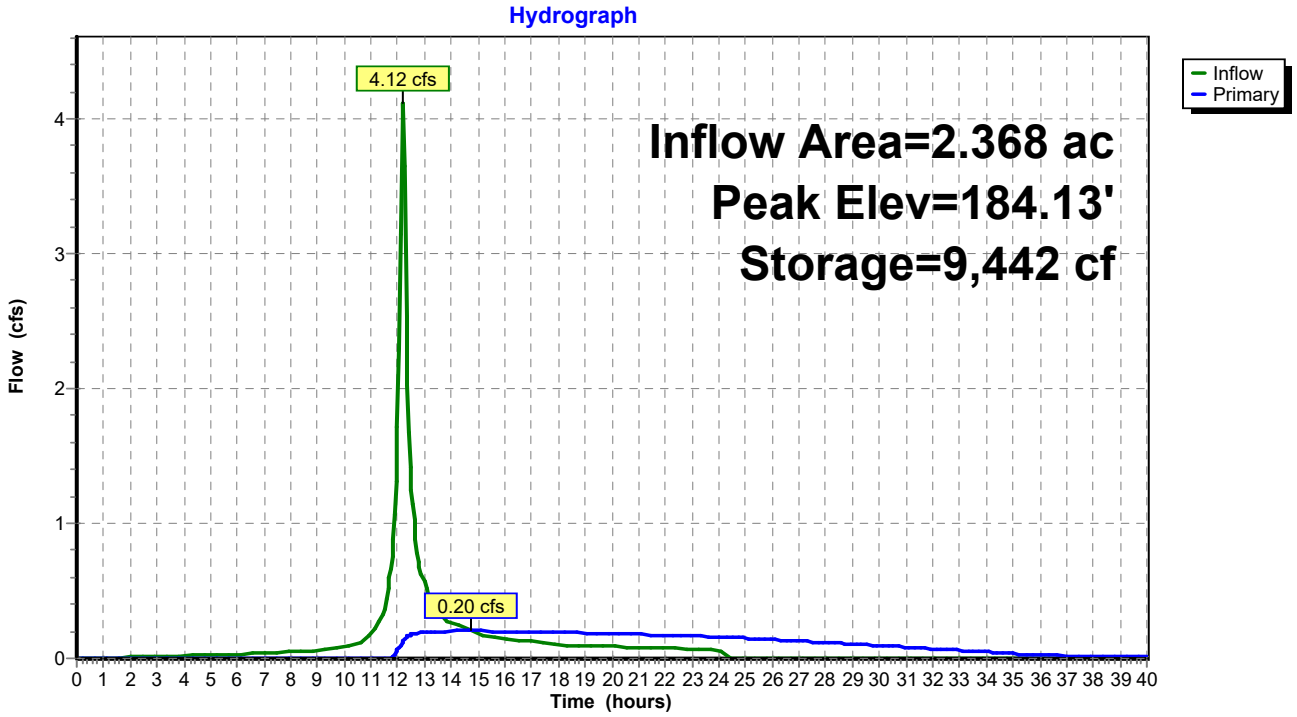
Volume	Invert	Avail.Storage	Storage Description
#1	181.85'	23,005 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
181.85	0	0	0
182.00	3,695	277	277
183.00	4,265	3,980	4,257
184.00	4,870	4,568	8,825
185.00	5,505	5,188	14,012
186.00	6,153	5,829	19,841
186.50	6,502	3,164	23,005

Device	Routing	Invert	Outlet Devices
#1	Primary	181.85'	**18.0" Round Culvert** L= 59.0' Ke= 0.500 Inlet / Outlet Invert= 181.85' / 181.55' S= 0.0051 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	182.50'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.13'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.39'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.20 cfs @ 14.73 hrs HW=184.13' (Free Discharge)
- **1=Culvert** (Passes 0.20 cfs of 9.16 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.20 cfs @ 5.94 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-41: Basin #41



Stage-Discharge for Pond B-41: Basin #41

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.85	0.00	182.37	0.00	182.89	0.09	183.41	0.15
181.86	0.00	182.38	0.00	182.90	0.09	183.42	0.15
181.87	0.00	182.39	0.00	182.91	0.09	183.43	0.15
181.88	0.00	182.40	0.00	182.92	0.09	183.44	0.15
181.89	0.00	182.41	0.00	182.93	0.09	183.45	0.15
181.90	0.00	182.42	0.00	182.94	0.10	183.46	0.15
181.91	0.00	182.43	0.00	182.95	0.10	183.47	0.15
181.92	0.00	182.44	0.00	182.96	0.10	183.48	0.15
181.93	0.00	182.45	0.00	182.97	0.10	183.49	0.15
181.94	0.00	182.46	0.00	182.98	0.10	183.50	0.16
181.95	0.00	182.47	0.00	182.99	0.10	183.51	0.16
181.96	0.00	182.48	0.00	183.00	0.10	183.52	0.16
181.97	0.00	182.49	0.00	183.01	0.10	183.53	0.16
181.98	0.00	182.50	0.00	183.02	0.11	183.54	0.16
181.99	0.00	182.51	0.00	183.03	0.11	183.55	0.16
182.00	0.00	182.52	0.00	183.04	0.11	183.56	0.16
182.01	0.00	182.53	0.00	183.05	0.11	183.57	0.16
182.02	0.00	182.54	0.00	183.06	0.11	183.58	0.16
182.03	0.00	182.55	0.00	183.07	0.11	183.59	0.16
182.04	0.00	182.56	0.01	183.08	0.11	183.60	0.16
182.05	0.00	182.57	0.01	183.09	0.11	183.61	0.16
182.06	0.00	182.58	0.01	183.10	0.12	183.62	0.17
182.07	0.00	182.59	0.01	183.11	0.12	183.63	0.17
182.08	0.00	182.60	0.02	183.12	0.12	183.64	0.17
182.09	0.00	182.61	0.02	183.13	0.12	183.65	0.17
182.10	0.00	182.62	0.02	183.14	0.12	183.66	0.17
182.11	0.00	182.63	0.03	183.15	0.12	183.67	0.17
182.12	0.00	182.64	0.03	183.16	0.12	183.68	0.17
182.13	0.00	182.65	0.03	183.17	0.12	183.69	0.17
182.14	0.00	182.66	0.04	183.18	0.12	183.70	0.17
182.15	0.00	182.67	0.04	183.19	0.13	183.71	0.17
182.16	0.00	182.68	0.05	183.20	0.13	183.72	0.17
182.17	0.00	182.69	0.05	183.21	0.13	183.73	0.17
182.18	0.00	182.70	0.05	183.22	0.13	183.74	0.17
182.19	0.00	182.71	0.05	183.23	0.13	183.75	0.18
182.20	0.00	182.72	0.06	183.24	0.13	183.76	0.18
182.21	0.00	182.73	0.06	183.25	0.13	183.77	0.18
182.22	0.00	182.74	0.06	183.26	0.13	183.78	0.18
182.23	0.00	182.75	0.06	183.27	0.13	183.79	0.18
182.24	0.00	182.76	0.06	183.28	0.13	183.80	0.18
182.25	0.00	182.77	0.07	183.29	0.14	183.81	0.18
182.26	0.00	182.78	0.07	183.30	0.14	183.82	0.18
182.27	0.00	182.79	0.07	183.31	0.14	183.83	0.18
182.28	0.00	182.80	0.07	183.32	0.14	183.84	0.18
182.29	0.00	182.81	0.07	183.33	0.14	183.85	0.18
182.30	0.00	182.82	0.08	183.34	0.14	183.86	0.18
182.31	0.00	182.83	0.08	183.35	0.14	183.87	0.18
182.32	0.00	182.84	0.08	183.36	0.14	183.88	0.19
182.33	0.00	182.85	0.08	183.37	0.14	183.89	0.19
182.34	0.00	182.86	0.08	183.38	0.14	183.90	0.19
182.35	0.00	182.87	0.08	183.39	0.15	183.91	0.19
182.36	0.00	182.88	0.09	183.40	0.15	183.92	0.19

Stage-Discharge for Pond B-41: Basin #41 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.93	0.19	184.45	2.55	184.97	9.90	185.49	17.51
183.94	0.19	184.46	2.66	184.98	10.07	185.50	18.11
183.95	0.19	184.47	2.77	184.99	10.24	185.51	18.74
183.96	0.19	184.48	2.89	185.00	10.41	185.52	19.40
183.97	0.19	184.49	3.00	185.01	10.58	185.53	20.08
183.98	0.19	184.50	3.12	185.02	10.75	185.54	20.78
183.99	0.19	184.51	3.23	185.03	10.92	185.55	21.51
184.00	0.19	184.52	3.35	185.04	11.09	185.56	22.26
184.01	0.19	184.53	3.47	185.05	11.27	185.57	23.03
184.02	0.20	184.54	3.59	185.06	11.44	185.58	23.82
184.03	0.20	184.55	3.71	185.07	11.62	185.59	24.64
184.04	0.20	184.56	3.84	185.08	11.79	185.60	25.51
184.05	0.20	184.57	3.96	185.09	11.97	185.61	26.41
184.06	0.20	184.58	4.09	185.10	12.15	185.62	27.34
184.07	0.20	184.59	4.22	185.11	12.33	185.63	28.29
184.08	0.20	184.60	4.35	185.12	12.51	185.64	29.27
184.09	0.20	184.61	4.48	185.13	12.69	185.65	30.27
184.10	0.20	184.62	4.61	185.14	12.77	185.66	31.29
184.11	0.20	184.63	4.74	185.15	12.80	185.67	32.34
184.12	0.20	184.64	4.88	185.16	12.83	185.68	33.42
184.13	0.20	184.65	5.01	185.17	12.86	185.69	34.52
184.14	0.22	184.66	5.15	185.18	12.89	185.70	35.64
184.15	0.24	184.67	5.29	185.19	12.92	185.71	36.79
184.16	0.27	184.68	5.42	185.20	12.95	185.72	37.96
184.17	0.31	184.69	5.56	185.21	12.98	185.73	39.16
184.18	0.35	184.70	5.71	185.22	13.01	185.74	40.38
184.19	0.40	184.71	5.85	185.23	13.04	185.75	41.63
184.20	0.45	184.72	5.99	185.24	13.07	185.76	42.89
184.21	0.50	184.73	6.14	185.25	13.10	185.77	44.19
184.22	0.56	184.74	6.28	185.26	13.13	185.78	45.51
184.23	0.62	184.75	6.43	185.27	13.16	185.79	46.85
184.24	0.68	184.76	6.58	185.28	13.19	185.80	48.24
184.25	0.75	184.77	6.72	185.29	13.22	185.81	49.66
184.26	0.82	184.78	6.87	185.30	13.25	185.82	51.10
184.27	0.89	184.79	7.02	185.31	13.28	185.83	52.57
184.28	0.97	184.80	7.18	185.32	13.30	185.84	54.07
184.29	1.04	184.81	7.33	185.33	13.33	185.85	55.59
184.30	1.12	184.82	7.48	185.34	13.36	185.86	57.14
184.31	1.20	184.83	7.64	185.35	13.39	185.87	58.72
184.32	1.29	184.84	7.79	185.36	13.42	185.88	60.32
184.33	1.37	184.85	7.95	185.37	13.45	185.89	61.95
184.34	1.46	184.86	8.11	185.38	13.48	185.90	63.60
184.35	1.55	184.87	8.27	185.39	13.51	185.91	65.28
184.36	1.64	184.88	8.42	185.40	13.65	185.92	66.99
184.37	1.74	184.89	8.59	185.41	13.90	185.93	68.72
184.38	1.83	184.90	8.75	185.42	14.20	185.94	70.48
184.39	1.93	184.91	8.91	185.43	14.56	185.95	72.27
184.40	2.03	184.92	9.07	185.44	14.96	185.96	74.09
184.41	2.13	184.93	9.24	185.45	15.40	185.97	75.93
184.42	2.23	184.94	9.40	185.46	15.88	185.98	77.80
184.43	2.34	184.95	9.57	185.47	16.39	185.99	79.69
184.44	2.45	184.96	9.73	185.48	16.94	186.00	81.34

Stage-Discharge for Pond B-41: Basin #41 (continued)

Elevation (feet)	Primary (cfs)
186.01	83.01
186.02	84.69
186.03	86.38
186.04	88.09
186.05	89.81
186.06	91.54
186.07	93.29
186.08	95.04
186.09	96.81
186.10	98.60
186.11	100.40
186.12	102.20
186.13	104.03
186.14	105.86
186.15	107.71
186.16	109.56
186.17	111.44
186.18	113.32
186.19	115.21
186.20	117.16
186.21	119.11
186.22	121.09
186.23	123.07
186.24	125.07
186.25	127.08
186.26	129.10
186.27	131.14
186.28	133.19
186.29	135.25
186.30	137.32
186.31	139.41
186.32	141.51
186.33	143.63
186.34	145.75
186.35	147.89
186.36	150.04
186.37	152.21
186.38	154.38
186.39	156.57
186.40	158.72
186.41	160.88
186.42	163.05
186.43	165.23
186.44	167.42
186.45	169.62
186.46	171.83
186.47	174.05
186.48	176.29
186.49	178.53
186.50	**180.78**

Stage-Area-Storage for Pond B-41: Basin #41

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.85	0	0
181.86	246	1
181.87	493	5
181.88	739	11
181.89	985	20
181.90	1,232	31
181.91	1,478	44
181.92	1,724	60
181.93	1,971	79
181.94	2,217	100
181.95	2,463	123
181.96	2,710	149
181.97	2,956	177
181.98	3,202	208
181.99	3,449	241
182.00	3,695	277
182.01	3,701	314
182.02	3,706	351
182.03	3,712	388
182.04	3,718	425
182.05	3,723	463
182.06	3,729	500
182.07	3,735	537
182.08	3,741	575
182.09	3,746	612
182.10	3,752	649
182.11	3,758	687
182.12	3,763	725
182.13	3,769	762
182.14	3,775	800
182.15	3,781	838
182.16	3,786	876
182.17	3,792	914
182.18	3,798	951
182.19	3,803	989
182.20	3,809	1,028
182.21	3,815	1,066
182.22	3,820	1,104
182.23	3,826	1,142
182.24	3,832	1,180
182.25	3,838	1,219
182.26	3,843	1,257
182.27	3,849	1,296
182.28	3,855	1,334
182.29	3,860	1,373
182.30	3,866	1,411
182.31	3,872	1,450
182.32	3,877	1,489
182.33	3,883	1,528
182.34	3,889	1,566
182.35	3,894	1,605
182.36	3,900	1,644
182.37	3,906	1,683
182.38	3,912	1,722
182.39	3,917	1,762
182.40	3,923	1,801
182.41	3,929	1,840
182.42	3,934	1,879
182.43	3,940	1,919
182.44	3,946	1,958
182.45	3,951	1,998
182.46	3,957	2,037
182.47	3,963	2,077
182.48	3,969	2,116
182.49	3,974	2,156
182.50	3,980	2,196
182.51	3,986	2,236
182.52	3,991	2,276
182.53	3,997	2,316
182.54	4,003	2,356
182.55	4,008	2,396
182.56	4,014	2,436
182.57	4,020	2,476
182.58	4,026	2,516
182.59	4,031	2,556
182.60	4,037	2,597
182.61	4,043	2,637
182.62	4,048	2,678
182.63	4,054	2,718
182.64	4,060	2,759
182.65	4,066	2,799
182.66	4,071	2,840
182.67	4,077	2,881
182.68	4,083	2,922
182.69	4,088	2,962
182.70	4,094	3,003
182.71	4,100	3,044
182.72	4,105	3,085
182.73	4,111	3,126
182.74	4,117	3,167
182.75	4,123	3,209
182.76	4,128	3,250
182.77	4,134	3,291
182.78	4,140	3,333
182.79	4,145	3,374
182.80	4,151	3,416
182.81	4,157	3,457
182.82	4,162	3,499
182.83	4,168	3,540
182.84	4,174	3,582
182.85	4,179	3,624
182.86	4,185	3,666
182.87	4,191	3,707
182.88	4,197	3,749

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.89	4,202	3,791	183.41	4,513	6,057
182.90	4,208	3,833	183.42	4,519	6,102
182.91	4,214	3,876	183.43	4,525	6,147
182.92	4,219	3,918	183.44	4,531	6,192
182.93	4,225	3,960	183.45	4,537	6,238
182.94	4,231	4,002	183.46	4,543	6,283
182.95	4,236	4,045	183.47	4,549	6,328
182.96	4,242	4,087	183.48	4,555	6,374
182.97	4,248	4,129	183.49	4,561	6,420
182.98	4,254	4,172	183.50	4,568	6,465
182.99	4,259	4,215	183.51	4,574	6,511
183.00	4,265	4,257	183.52	4,580	6,557
183.01	4,271	4,300	183.53	4,586	6,603
183.02	4,277	4,343	183.54	4,592	6,648
183.03	4,283	4,385	183.55	4,598	6,694
183.04	4,289	4,428	183.56	4,604	6,740
183.05	4,295	4,471	183.57	4,610	6,786
183.06	4,301	4,514	183.58	4,616	6,833
183.07	4,307	4,557	183.59	4,622	6,879
183.08	4,313	4,600	183.60	4,628	6,925
183.09	4,319	4,643	183.61	4,634	6,971
183.10	4,325	4,687	183.62	4,640	7,018
183.11	4,332	4,730	183.63	4,646	7,064
183.12	4,338	4,773	183.64	4,652	7,111
183.13	4,344	4,817	183.65	4,658	7,157
183.14	4,350	4,860	183.66	4,664	7,204
183.15	4,356	4,904	183.67	4,670	7,250
183.16	4,362	4,947	183.68	4,676	7,297
183.17	4,368	4,991	183.69	4,682	7,344
183.18	4,374	5,035	183.70	4,688	7,391
183.19	4,380	5,078	183.71	4,695	7,438
183.20	4,386	5,122	183.72	4,701	7,485
183.21	4,392	5,166	183.73	4,707	7,532
183.22	4,398	5,210	183.74	4,713	7,579
183.23	4,404	5,254	183.75	4,719	7,626
183.24	4,410	5,298	183.76	4,725	7,673
183.25	4,416	5,342	183.77	4,731	7,721
183.26	4,422	5,386	183.78	4,737	7,768
183.27	4,428	5,431	183.79	4,743	7,815
183.28	4,434	5,475	183.80	4,749	7,863
183.29	4,440	5,519	183.81	4,755	7,910
183.30	4,446	5,564	183.82	4,761	7,958
183.31	4,453	5,608	183.83	4,767	8,005
183.32	4,459	5,653	183.84	4,773	8,053
183.33	4,465	5,698	183.85	4,779	8,101
183.34	4,471	5,742	183.86	4,785	8,149
183.35	4,477	5,787	183.87	4,791	8,197
183.36	4,483	5,832	183.88	4,797	8,245
183.37	4,489	5,877	183.89	4,803	8,293
183.38	4,495	5,922	183.90	4,810	8,341
183.39	4,501	5,966	183.91	4,816	8,389
183.40	4,507	6,012	183.92	4,822	8,437

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.93	4,828	8,485	184.45	5,156	11,080
183.94	4,834	8,534	184.46	5,162	11,132
183.95	4,840	8,582	184.47	5,168	11,184
183.96	4,846	8,630	184.48	5,175	11,235
183.97	4,852	8,679	184.49	5,181	11,287
183.98	4,858	8,727	184.50	5,188	11,339
183.99	4,864	8,776	184.51	5,194	11,391
184.00	4,870	8,825	184.52	5,200	11,443
184.01	4,876	8,873	184.53	5,207	11,495
184.02	4,883	8,922	184.54	5,213	11,547
184.03	4,889	8,971	184.55	5,219	11,599
184.04	4,895	9,020	184.56	5,226	11,651
184.05	4,902	9,069	184.57	5,232	11,704
184.06	4,908	9,118	184.58	5,238	11,756
184.07	4,914	9,167	184.59	5,245	11,808
184.08	4,921	9,216	184.60	5,251	11,861
184.09	4,927	9,265	184.61	5,257	11,913
184.10	4,933	9,315	184.62	5,264	11,966
184.11	4,940	9,364	184.63	5,270	12,019
184.12	4,946	9,414	184.64	5,276	12,071
184.13	4,953	9,463	184.65	5,283	12,124
184.14	4,959	9,513	184.66	5,289	12,177
184.15	4,965	9,562	184.67	5,295	12,230
184.16	4,972	9,612	184.68	5,302	12,283
184.17	4,978	9,662	184.69	5,308	12,336
184.18	4,984	9,712	184.70	5,314	12,389
184.19	4,991	9,761	184.71	5,321	12,442
184.20	4,997	9,811	184.72	5,327	12,496
184.21	5,003	9,861	184.73	5,334	12,549
184.22	5,010	9,911	184.74	5,340	12,602
184.23	5,016	9,962	184.75	5,346	12,656
184.24	5,022	10,012	184.76	5,353	12,709
184.25	5,029	10,062	184.77	5,359	12,763
184.26	5,035	10,112	184.78	5,365	12,816
184.27	5,041	10,163	184.79	5,372	12,870
184.28	5,048	10,213	184.80	5,378	12,924
184.29	5,054	10,264	184.81	5,384	12,978
184.30	5,060	10,314	184.82	5,391	13,032
184.31	5,067	10,365	184.83	5,397	13,085
184.32	5,073	10,416	184.84	5,403	13,139
184.33	5,080	10,466	184.85	5,410	13,194
184.34	5,086	10,517	184.86	5,416	13,248
184.35	5,092	10,568	184.87	5,422	13,302
184.36	5,099	10,619	184.88	5,429	13,356
184.37	5,105	10,670	184.89	5,435	13,410
184.38	5,111	10,721	184.90	5,442	13,465
184.39	5,118	10,772	184.91	5,448	13,519
184.40	5,124	10,823	184.92	5,454	13,574
184.41	5,130	10,875	184.93	5,461	13,628
184.42	5,137	10,926	184.94	5,467	13,683
184.43	5,143	10,977	184.95	5,473	13,738
184.44	5,149	11,029	184.96	5,480	13,792

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.97	5,486	13,847	185.49	5,823	16,787
184.98	5,492	13,902	185.50	5,829	16,846
184.99	5,499	13,957	185.51	5,835	16,904
185.00	5,505	14,012	185.52	5,842	16,962
185.01	5,511	14,067	185.53	5,848	17,021
185.02	5,518	14,122	185.54	5,855	17,079
185.03	5,524	14,178	185.55	5,861	17,138
185.04	5,531	14,233	185.56	5,868	17,197
185.05	5,537	14,288	185.57	5,874	17,255
185.06	5,544	14,344	185.58	5,881	17,314
185.07	5,550	14,399	185.59	5,887	17,373
185.08	5,557	14,455	185.60	5,894	17,432
185.09	5,563	14,510	185.61	5,900	17,491
185.10	5,570	14,566	185.62	5,907	17,550
185.11	5,576	14,622	185.63	5,913	17,609
185.12	5,583	14,677	185.64	5,920	17,668
185.13	5,589	14,733	185.65	5,926	17,727
185.14	5,596	14,789	185.66	5,933	17,787
185.15	5,602	14,845	185.67	5,939	17,846
185.16	5,609	14,901	185.68	5,946	17,905
185.17	5,615	14,957	185.69	5,952	17,965
185.18	5,622	15,014	185.70	5,959	18,024
185.19	5,628	15,070	185.71	5,965	18,084
185.20	5,635	15,126	185.72	5,972	18,144
185.21	5,641	15,182	185.73	5,978	18,203
185.22	5,648	15,239	185.74	5,985	18,263
185.23	5,654	15,295	185.75	5,991	18,323
185.24	5,661	15,352	185.76	5,997	18,383
185.25	5,667	15,409	185.77	6,004	18,443
185.26	5,673	15,465	185.78	6,010	18,503
185.27	5,680	15,522	185.79	6,017	18,563
185.28	5,686	15,579	185.80	6,023	18,623
185.29	5,693	15,636	185.81	6,030	18,684
185.30	5,699	15,693	185.82	6,036	18,744
185.31	5,706	15,750	185.83	6,043	18,804
185.32	5,712	15,807	185.84	6,049	18,865
185.33	5,719	15,864	185.85	6,056	18,925
185.34	5,725	15,921	185.86	6,062	18,986
185.35	5,732	15,979	185.87	6,069	19,047
185.36	5,738	16,036	185.88	6,075	19,107
185.37	5,745	16,093	185.89	6,082	19,168
185.38	5,751	16,151	185.90	6,088	19,229
185.39	5,758	16,208	185.91	6,095	19,290
185.40	5,764	16,266	185.92	6,101	19,351
185.41	5,771	16,324	185.93	6,108	19,412
185.42	5,777	16,381	185.94	6,114	19,473
185.43	5,784	16,439	185.95	6,121	19,534
185.44	5,790	16,497	185.96	6,127	19,596
185.45	5,797	16,555	185.97	6,134	19,657
185.46	5,803	16,613	185.98	6,140	19,718
185.47	5,810	16,671	185.99	6,147	19,780
185.48	5,816	16,729	186.00	6,153	19,841

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.01	6,160	19,903
186.02	6,167	19,964
186.03	6,174	20,026
186.04	6,181	20,088
186.05	6,188	20,150
186.06	6,195	20,212
186.07	6,202	20,274
186.08	6,209	20,336
186.09	6,216	20,398
186.10	6,223	20,460
186.11	6,230	20,522
186.12	6,237	20,585
186.13	6,244	20,647
186.14	6,251	20,709
186.15	6,258	20,772
186.16	6,265	20,835
186.17	6,272	20,897
186.18	6,279	20,960
186.19	6,286	21,023
186.20	6,293	21,086
186.21	6,300	21,149
186.22	6,307	21,212
186.23	6,314	21,275
186.24	6,321	21,338
186.25	6,328	21,401
186.26	6,334	21,464
186.27	6,341	21,528
186.28	6,348	21,591
186.29	6,355	21,655
186.30	6,362	21,718
186.31	6,369	21,782
186.32	6,376	21,846
186.33	6,383	21,910
186.34	6,390	21,973
186.35	6,397	22,037
186.36	6,404	22,101
186.37	6,411	22,166
186.38	6,418	22,230
186.39	6,425	22,294
186.40	6,432	22,358
186.41	6,439	22,423
186.42	6,446	22,487
186.43	6,453	22,551
186.44	6,460	22,616
186.45	6,467	22,681
186.46	6,474	22,745
186.47	6,481	22,810
186.48	6,488	22,875
186.49	6,495	22,940
186.50	**6,502**	**23,005**

Summary for Pond B-42: Basin #42

Inflow Area = 0.777 ac, 38.35% Impervious, Inflow Depth = 1.90" for Current 2 yr event
Inflow = 1.49 cfs @ 12.17 hrs, Volume= 0.123 af
Outflow = 0.03 cfs @ 18.81 hrs, Volume= 0.028 af, Atten= 98%, Lag= 398.4 min
Primary = 0.03 cfs @ 18.81 hrs, Volume= 0.028 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 182.74' @ 18.81 hrs Surf.Area= 2,988 sf Storage= 4,497 cf

Plug-Flow detention time= 730.0 min calculated for 0.028 af (23% of inflow)
Center-of-Mass det. time= 527.3 min (1,326.9 - 799.6)

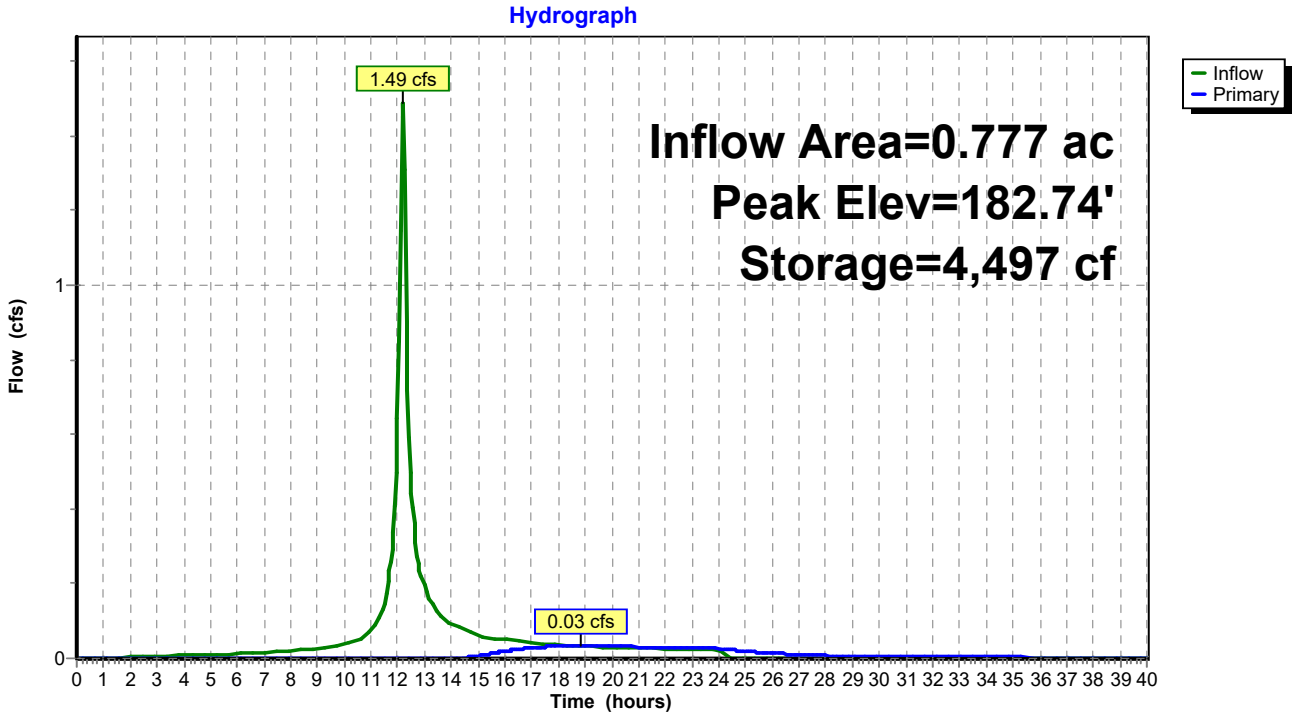
Volume	Invert	Avail.Storage	Storage Description
#1	180.96'	22,293 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
180.96	0	0	0
181.00	2,142	43	43
182.00	2,613	2,378	2,420
183.00	3,118	2,866	5,286
184.00	3,656	3,387	8,673
185.00	4,227	3,942	12,614
186.00	4,831	4,529	17,143
187.00	5,468	5,150	22,293

Device	Routing	Invert	Outlet Devices
#1	Primary	181.96'	**18.0" Round Culvert** L= 192.0' Ke= 0.500 Inlet / Outlet Invert= 181.96' / 181.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	182.60'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.01'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.99'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.03 cfs @ 18.81 hrs HW=182.74' (Free Discharge)
- **1=Culvert** (Passes 0.03 cfs of 2.27 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.03 cfs @ 1.28 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-42: Basin #42



Stage-Discharge for Pond B-42: Basin #42

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.96	0.00	181.48	0.00	182.00	0.00	182.52	0.00
180.97	0.00	181.49	0.00	182.01	0.00	182.53	0.00
180.98	0.00	181.50	0.00	182.02	0.00	182.54	0.00
180.99	0.00	181.51	0.00	182.03	0.00	182.55	0.00
181.00	0.00	181.52	0.00	182.04	0.00	182.56	0.00
181.01	0.00	181.53	0.00	182.05	0.00	182.57	0.00
181.02	0.00	181.54	0.00	182.06	0.00	182.58	0.00
181.03	0.00	181.55	0.00	182.07	0.00	182.59	0.00
181.04	0.00	181.56	0.00	182.08	0.00	182.60	0.00
181.05	0.00	181.57	0.00	182.09	0.00	182.61	0.00
181.06	0.00	181.58	0.00	182.10	0.00	182.62	0.00
181.07	0.00	181.59	0.00	182.11	0.00	182.63	0.00
181.08	0.00	181.60	0.00	182.12	0.00	182.64	0.00
181.09	0.00	181.61	0.00	182.13	0.00	182.65	0.00
181.10	0.00	181.62	0.00	182.14	0.00	182.66	0.01
181.11	0.00	181.63	0.00	182.15	0.00	182.67	0.01
181.12	0.00	181.64	0.00	182.16	0.00	182.68	0.01
181.13	0.00	181.65	0.00	182.17	0.00	182.69	0.01
181.14	0.00	181.66	0.00	182.18	0.00	182.70	0.02
181.15	0.00	181.67	0.00	182.19	0.00	182.71	0.02
181.16	0.00	181.68	0.00	182.20	0.00	182.72	0.02
181.17	0.00	181.69	0.00	182.21	0.00	182.73	0.03
181.18	0.00	181.70	0.00	182.22	0.00	182.74	0.03
181.19	0.00	181.71	0.00	182.23	0.00	182.75	0.03
181.20	0.00	181.72	0.00	182.24	0.00	182.76	0.04
181.21	0.00	181.73	0.00	182.25	0.00	182.77	0.04
181.22	0.00	181.74	0.00	182.26	0.00	182.78	0.05
181.23	0.00	181.75	0.00	182.27	0.00	182.79	0.05
181.24	0.00	181.76	0.00	182.28	0.00	182.80	0.05
181.25	0.00	181.77	0.00	182.29	0.00	182.81	0.05
181.26	0.00	181.78	0.00	182.30	0.00	182.82	0.06
181.27	0.00	181.79	0.00	182.31	0.00	182.83	0.06
181.28	0.00	181.80	0.00	182.32	0.00	182.84	0.06
181.29	0.00	181.81	0.00	182.33	0.00	182.85	0.06
181.30	0.00	181.82	0.00	182.34	0.00	182.86	0.06
181.31	0.00	181.83	0.00	182.35	0.00	182.87	0.07
181.32	0.00	181.84	0.00	182.36	0.00	182.88	0.07
181.33	0.00	181.85	0.00	182.37	0.00	182.89	0.07
181.34	0.00	181.86	0.00	182.38	0.00	182.90	0.07
181.35	0.00	181.87	0.00	182.39	0.00	182.91	0.07
181.36	0.00	181.88	0.00	182.40	0.00	182.92	0.08
181.37	0.00	181.89	0.00	182.41	0.00	182.93	0.08
181.38	0.00	181.90	0.00	182.42	0.00	182.94	0.08
181.39	0.00	181.91	0.00	182.43	0.00	182.95	0.08
181.40	0.00	181.92	0.00	182.44	0.00	182.96	0.08
181.41	0.00	181.93	0.00	182.45	0.00	182.97	0.08
181.42	0.00	181.94	0.00	182.46	0.00	182.98	0.09
181.43	0.00	181.95	0.00	182.47	0.00	182.99	0.09
181.44	0.00	181.96	0.00	182.48	0.00	183.00	0.09
181.45	0.00	181.97	0.00	182.49	0.00	183.01	0.09
181.46	0.00	181.98	0.00	182.50	0.00	183.02	0.09
181.47	0.00	181.99	0.00	182.51	0.00	183.03	0.09

Stage-Discharge for Pond B-42: Basin #42 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.04	0.10	183.56	0.15	184.08	0.43	184.60	5.98
183.05	0.10	183.57	0.15	184.09	0.49	184.61	6.12
183.06	0.10	183.58	0.15	184.10	0.55	184.62	6.27
183.07	0.10	183.59	0.15	184.11	0.61	184.63	6.42
183.08	0.10	183.60	0.16	184.12	0.67	184.64	6.56
183.09	0.10	183.61	0.16	184.13	0.74	184.65	6.71
183.10	0.10	183.62	0.16	184.14	0.81	184.66	6.86
183.11	0.10	183.63	0.16	184.15	0.88	184.67	7.01
183.12	0.11	183.64	0.16	184.16	0.95	184.68	7.16
183.13	0.11	183.65	0.16	184.17	1.03	184.69	7.32
183.14	0.11	183.66	0.16	184.18	1.11	184.70	7.47
183.15	0.11	183.67	0.16	184.19	1.19	184.71	7.62
183.16	0.11	183.68	0.16	184.20	1.27	184.72	7.78
183.17	0.11	183.69	0.16	184.21	1.36	184.73	7.94
183.18	0.11	183.70	0.16	184.22	1.45	184.74	8.09
183.19	0.11	183.71	0.16	184.23	1.54	184.75	8.25
183.20	0.12	183.72	0.17	184.24	1.63	184.76	8.41
183.21	0.12	183.73	0.17	184.25	1.72	184.77	8.57
183.22	0.12	183.74	0.17	184.26	1.82	184.78	8.73
183.23	0.12	183.75	0.17	184.27	1.92	184.79	8.90
183.24	0.12	183.76	0.17	184.28	2.02	184.80	9.06
183.25	0.12	183.77	0.17	184.29	2.12	184.81	9.22
183.26	0.12	183.78	0.17	184.30	2.22	184.82	9.39
183.27	0.12	183.79	0.17	184.31	2.33	184.83	9.55
183.28	0.12	183.80	0.17	184.32	2.43	184.84	9.69
183.29	0.13	183.81	0.17	184.33	2.54	184.85	9.71
183.30	0.13	183.82	0.17	184.34	2.65	184.86	9.73
183.31	0.13	183.83	0.17	184.35	2.76	184.87	9.75
183.32	0.13	183.84	0.17	184.36	2.87	184.88	9.77
183.33	0.13	183.85	0.18	184.37	2.99	184.89	9.79
183.34	0.13	183.86	0.18	184.38	3.10	184.90	9.81
183.35	0.13	183.87	0.18	184.39	3.22	184.91	9.83
183.36	0.13	183.88	0.18	184.40	3.34	184.92	9.85
183.37	0.13	183.89	0.18	184.41	3.46	184.93	9.88
183.38	0.13	183.90	0.18	184.42	3.58	184.94	9.90
183.39	0.14	183.91	0.18	184.43	3.70	184.95	9.92
183.40	0.14	183.92	0.18	184.44	3.83	184.96	9.94
183.41	0.14	183.93	0.18	184.45	3.95	184.97	9.96
183.42	0.14	183.94	0.18	184.46	4.08	184.98	9.98
183.43	0.14	183.95	0.18	184.47	4.21	184.99	10.00
183.44	0.14	183.96	0.18	184.48	4.33	185.00	10.02
183.45	0.14	183.97	0.18	184.49	4.46	185.01	10.04
183.46	0.14	183.98	0.19	184.50	4.60	185.02	10.06
183.47	0.14	183.99	0.19	184.51	4.73	185.03	10.08
183.48	0.14	184.00	0.19	184.52	4.86	185.04	10.10
183.49	0.15	184.01	0.19	184.53	5.00	185.05	10.12
183.50	0.15	184.02	0.20	184.54	5.14	185.06	10.14
183.51	0.15	184.03	0.23	184.55	5.27	185.07	10.16
183.52	0.15	184.04	0.26	184.56	5.41	185.08	10.18
183.53	0.15	184.05	0.29	184.57	5.55	185.09	10.20
183.54	0.15	184.06	0.34	184.58	5.69	185.10	10.21
183.55	0.15	184.07	0.38	184.59	5.84	185.11	10.23

Stage-Discharge for Pond B-42: Basin #42 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.12	10.25	185.64	11.23	186.16	20.39	186.68	92.62
185.13	10.27	185.65	11.24	186.17	21.15	186.69	94.39
185.14	10.29	185.66	11.26	186.18	21.93	186.70	96.16
185.15	10.31	185.67	11.28	186.19	22.73	186.71	97.95
185.16	10.33	185.68	11.30	186.20	23.60	186.72	99.75
185.17	10.35	185.69	11.31	186.21	24.49	186.73	101.56
185.18	10.37	185.70	11.33	186.22	25.40	186.74	103.38
185.19	10.39	185.71	11.35	186.23	26.34	186.75	105.22
185.20	10.41	185.72	11.37	186.24	27.30	186.76	107.07
185.21	10.43	185.73	11.39	186.25	28.29	186.77	108.93
185.22	10.45	185.74	11.40	186.26	29.31	186.78	110.80
185.23	10.47	185.75	11.42	186.27	30.35	186.79	112.69
185.24	10.49	185.76	11.44	186.28	31.41	186.80	114.62
185.25	10.51	185.77	11.46	186.29	32.50	186.81	116.57
185.26	10.52	185.78	11.47	186.30	33.61	186.82	118.53
185.27	10.54	185.79	11.49	186.31	34.75	186.83	120.50
185.28	10.56	185.80	11.51	186.32	35.91	186.84	122.49
185.29	10.58	185.81	11.53	186.33	37.10	186.85	124.49
185.30	10.60	185.82	11.54	186.34	38.31	186.86	126.51
185.31	10.62	185.83	11.56	186.35	39.54	186.87	128.53
185.32	10.64	185.84	11.58	186.36	40.80	186.88	130.57
185.33	10.66	185.85	11.59	186.37	42.09	186.89	132.63
185.34	10.68	185.86	11.61	186.38	43.39	186.90	134.69
185.35	10.69	185.87	11.63	186.39	44.72	186.91	136.77
185.36	10.71	185.88	11.65	186.40	46.11	186.92	138.86
185.37	10.73	185.89	11.66	186.41	47.51	186.93	140.97
185.38	10.75	185.90	11.68	186.42	48.95	186.94	143.08
185.39	10.77	185.91	11.70	186.43	50.41	186.95	145.21
185.40	10.79	185.92	11.72	186.44	51.89	186.96	147.35
185.41	10.81	185.93	11.73	186.45	53.41	186.97	149.51
185.42	10.83	185.94	11.75	186.46	54.95	186.98	151.68
185.43	10.84	185.95	11.77	186.47	56.51	186.99	153.86
185.44	10.86	185.96	11.78	186.48	58.10	187.00	**155.99**
185.45	10.88	185.97	11.80	186.49	59.72		
185.46	10.90	185.98	11.82	186.50	61.36		
185.47	10.92	185.99	11.83	186.51	63.03		
185.48	10.94	186.00	11.97	186.52	64.73		
185.49	10.95	186.01	12.20	186.53	66.45		
185.50	10.97	186.02	12.49	186.54	68.21		
185.51	10.99	186.03	12.84	186.55	69.98		
185.52	11.01	186.04	13.23	186.56	71.79		
185.53	11.03	186.05	13.66	186.57	73.62		
185.54	11.05	186.06	14.13	186.58	75.48		
185.55	11.06	186.07	14.63	186.59	77.36		
185.56	11.08	186.08	15.16	186.60	79.00		
185.57	11.10	186.09	15.72	186.61	80.66		
185.58	11.12	186.10	16.31	186.62	82.33		
185.59	11.14	186.11	16.93	186.63	84.01		
185.60	11.15	186.12	17.57	186.64	85.71		
185.61	11.17	186.13	18.24	186.65	87.42		
185.62	11.19	186.14	18.93	186.66	89.14		
185.63	11.21	186.15	19.65	186.67	90.88		

Stage-Area-Storage for Pond B-42: Basin #42

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.96	0	0
180.97	535	3
180.98	1,071	11
180.99	1,607	24
181.00	2,142	43
181.01	2,147	64
181.02	2,151	86
181.03	2,156	107
181.04	2,161	129
181.05	2,166	151
181.06	2,170	172
181.07	2,175	194
181.08	2,180	216
181.09	2,184	238
181.10	2,189	259
181.11	2,194	281
181.12	2,199	303
181.13	2,203	325
181.14	2,208	347
181.15	2,213	369
181.16	2,217	392
181.17	2,222	414
181.18	2,227	436
181.19	2,231	458
181.20	2,236	481
181.21	2,241	503
181.22	2,246	525
181.23	2,250	548
181.24	2,255	570
181.25	2,260	593
181.26	2,264	616
181.27	2,269	638
181.28	2,274	661
181.29	2,279	684
181.30	2,283	707
181.31	2,288	729
181.32	2,293	752
181.33	2,297	775
181.34	2,302	798
181.35	2,307	821
181.36	2,312	844
181.37	2,316	868
181.38	2,321	891
181.39	2,326	914
181.40	2,330	937
181.41	2,335	961
181.42	2,340	984
181.43	2,345	1,007
181.44	2,349	1,031
181.45	2,354	1,054
181.46	2,359	1,078
181.47	2,363	1,102
181.48	2,368	1,125
181.49	2,373	1,149
181.50	2,378	1,173
181.51	2,382	1,197
181.52	2,387	1,220
181.53	2,392	1,244
181.54	2,396	1,268
181.55	2,401	1,292
181.56	2,406	1,316
181.57	2,410	1,340
181.58	2,415	1,364
181.59	2,420	1,389
181.60	2,425	1,413
181.61	2,429	1,437
181.62	2,434	1,461
181.63	2,439	1,486
181.64	2,443	1,510
181.65	2,448	1,535
181.66	2,453	1,559
181.67	2,458	1,584
181.68	2,462	1,608
181.69	2,467	1,633
181.70	2,472	1,658
181.71	2,476	1,682
181.72	2,481	1,707
181.73	2,486	1,732
181.74	2,491	1,757
181.75	2,495	1,782
181.76	2,500	1,807
181.77	2,505	1,832
181.78	2,509	1,857
181.79	2,514	1,882
181.80	2,519	1,907
181.81	2,524	1,932
181.82	2,528	1,958
181.83	2,533	1,983
181.84	2,538	2,008
181.85	2,542	2,034
181.86	2,547	2,059
181.87	2,552	2,085
181.88	2,556	2,110
181.89	2,561	2,136
181.90	2,566	2,161
181.91	2,571	2,187
181.92	2,575	2,213
181.93	2,580	2,239
181.94	2,585	2,264
181.95	2,589	2,290
181.96	2,594	2,316
181.97	2,599	2,342
181.98	2,604	2,368
181.99	2,608	2,394

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.00	2,613	2,420	182.52	2,876	3,847
182.01	2,618	2,446	182.53	2,881	3,876
182.02	2,623	2,473	182.54	2,886	3,905
182.03	2,628	2,499	182.55	2,891	3,934
182.04	2,633	2,525	182.56	2,896	3,963
182.05	2,638	2,552	182.57	2,901	3,992
182.06	2,643	2,578	182.58	2,906	4,021
182.07	2,648	2,604	182.59	2,911	4,050
182.08	2,653	2,631	182.60	2,916	4,079
182.09	2,658	2,658	182.61	2,921	4,108
182.10	2,663	2,684	182.62	2,926	4,137
182.11	2,669	2,711	182.63	2,931	4,167
182.12	2,674	2,738	182.64	2,936	4,196
182.13	2,679	2,764	182.65	2,941	4,225
182.14	2,684	2,791	182.66	2,946	4,255
182.15	2,689	2,818	182.67	2,951	4,284
182.16	2,694	2,845	182.68	2,956	4,314
182.17	2,699	2,872	182.69	2,961	4,344
182.18	2,704	2,899	182.70	2,967	4,373
182.19	2,709	2,926	182.71	2,972	4,403
182.20	2,714	2,953	182.72	2,977	4,433
182.21	2,719	2,980	182.73	2,982	4,462
182.22	2,724	3,007	182.74	2,987	4,492
182.23	2,729	3,035	182.75	2,992	4,522
182.24	2,734	3,062	182.76	2,997	4,552
182.25	2,739	3,089	182.77	3,002	4,582
182.26	2,744	3,117	182.78	3,007	4,612
182.27	2,749	3,144	182.79	3,012	4,642
182.28	2,754	3,172	182.80	3,017	4,672
182.29	2,759	3,199	182.81	3,022	4,703
182.30	2,765	3,227	182.82	3,027	4,733
182.31	2,770	3,255	182.83	3,032	4,763
182.32	2,775	3,282	182.84	3,037	4,793
182.33	2,780	3,310	182.85	3,042	4,824
182.34	2,785	3,338	182.86	3,047	4,854
182.35	2,790	3,366	182.87	3,052	4,885
182.36	2,795	3,394	182.88	3,057	4,915
182.37	2,800	3,422	182.89	3,062	4,946
182.38	2,805	3,450	182.90	3,068	4,977
182.39	2,810	3,478	182.91	3,073	5,007
182.40	2,815	3,506	182.92	3,078	5,038
182.41	2,820	3,534	182.93	3,083	5,069
182.42	2,825	3,562	182.94	3,088	5,100
182.43	2,830	3,591	182.95	3,093	5,131
182.44	2,835	3,619	182.96	3,098	5,162
182.45	2,840	3,647	182.97	3,103	5,193
182.46	2,845	3,676	182.98	3,108	5,224
182.47	2,850	3,704	182.99	3,113	5,255
182.48	2,855	3,733	183.00	3,118	5,286
182.49	2,860	3,761	183.01	3,123	5,317
182.50	2,866	3,790	183.02	3,129	5,348
182.51	2,871	3,819	183.03	3,134	5,380

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.04	3,140	5,411	183.56	3,419	7,116
183.05	3,145	5,442	183.57	3,425	7,150
183.06	3,150	5,474	183.58	3,430	7,185
183.07	3,156	5,505	183.59	3,435	7,219
183.08	3,161	5,537	183.60	3,441	7,253
183.09	3,166	5,569	183.61	3,446	7,288
183.10	3,172	5,600	183.62	3,452	7,322
183.11	3,177	5,632	183.63	3,457	7,357
183.12	3,183	5,664	183.64	3,462	7,392
183.13	3,188	5,696	183.65	3,468	7,426
183.14	3,193	5,728	183.66	3,473	7,461
183.15	3,199	5,760	183.67	3,478	7,496
183.16	3,204	5,792	183.68	3,484	7,530
183.17	3,209	5,824	183.69	3,489	7,565
183.18	3,215	5,856	183.70	3,495	7,600
183.19	3,220	5,888	183.71	3,500	7,635
183.20	3,226	5,920	183.72	3,505	7,670
183.21	3,231	5,952	183.73	3,511	7,705
183.22	3,236	5,985	183.74	3,516	7,740
183.23	3,242	6,017	183.75	3,522	7,776
183.24	3,247	6,050	183.76	3,527	7,811
183.25	3,253	6,082	183.77	3,532	7,846
183.26	3,258	6,115	183.78	3,538	7,882
183.27	3,263	6,147	183.79	3,543	7,917
183.28	3,269	6,180	183.80	3,548	7,952
183.29	3,274	6,213	183.81	3,554	7,988
183.30	3,279	6,245	183.82	3,559	8,023
183.31	3,285	6,278	183.83	3,565	8,059
183.32	3,290	6,311	183.84	3,570	8,095
183.33	3,296	6,344	183.85	3,575	8,130
183.34	3,301	6,377	183.86	3,581	8,166
183.35	3,306	6,410	183.87	3,586	8,202
183.36	3,312	6,443	183.88	3,591	8,238
183.37	3,317	6,476	183.89	3,597	8,274
183.38	3,322	6,510	183.90	3,602	8,310
183.39	3,328	6,543	183.91	3,608	8,346
183.40	3,333	6,576	183.92	3,613	8,382
183.41	3,339	6,609	183.93	3,618	8,418
183.42	3,344	6,643	183.94	3,624	8,454
183.43	3,349	6,676	183.95	3,629	8,491
183.44	3,355	6,710	183.96	3,634	8,527
183.45	3,360	6,743	183.97	3,640	8,563
183.46	3,365	6,777	183.98	3,645	8,600
183.47	3,371	6,811	183.99	3,651	8,636
183.48	3,376	6,844	184.00	3,656	8,673
183.49	3,382	6,878	184.01	3,662	8,709
183.50	3,387	6,912	184.02	3,667	8,746
183.51	3,392	6,946	184.03	3,673	8,783
183.52	3,398	6,980	184.04	3,679	8,820
183.53	3,403	7,014	184.05	3,685	8,856
183.54	3,409	7,048	184.06	3,690	8,893
183.55	3,414	7,082	184.07	3,696	8,930

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.08	3,702	8,967	184.60	3,999	10,969
184.09	3,707	9,004	184.61	4,004	11,009
184.10	3,713	9,041	184.62	4,010	11,049
184.11	3,719	9,078	184.63	4,016	11,089
184.12	3,725	9,116	184.64	4,021	11,130
184.13	3,730	9,153	184.65	4,027	11,170
184.14	3,736	9,190	184.66	4,033	11,210
184.15	3,742	9,228	184.67	4,039	11,251
184.16	3,747	9,265	184.68	4,044	11,291
184.17	3,753	9,303	184.69	4,050	11,331
184.18	3,759	9,340	184.70	4,056	11,372
184.19	3,764	9,378	184.71	4,061	11,413
184.20	3,770	9,415	184.72	4,067	11,453
184.21	3,776	9,453	184.73	4,073	11,494
184.22	3,782	9,491	184.74	4,079	11,535
184.23	3,787	9,529	184.75	4,084	11,575
184.24	3,793	9,567	184.76	4,090	11,616
184.25	3,799	9,605	184.77	4,096	11,657
184.26	3,804	9,643	184.78	4,101	11,698
184.27	3,810	9,681	184.79	4,107	11,739
184.28	3,816	9,719	184.80	4,113	11,780
184.29	3,822	9,757	184.81	4,119	11,822
184.30	3,827	9,795	184.82	4,124	11,863
184.31	3,833	9,834	184.83	4,130	11,904
184.32	3,839	9,872	184.84	4,136	11,945
184.33	3,844	9,910	184.85	4,141	11,987
184.34	3,850	9,949	184.86	4,147	12,028
184.35	3,856	9,987	184.87	4,153	12,070
184.36	3,862	10,026	184.88	4,158	12,111
184.37	3,867	10,065	184.89	4,164	12,153
184.38	3,873	10,103	184.90	4,170	12,194
184.39	3,879	10,142	184.91	4,176	12,236
184.40	3,884	10,181	184.92	4,181	12,278
184.41	3,890	10,220	184.93	4,187	12,320
184.42	3,896	10,259	184.94	4,193	12,362
184.43	3,902	10,298	184.95	4,198	12,404
184.44	3,907	10,337	184.96	4,204	12,446
184.45	3,913	10,376	184.97	4,210	12,488
184.46	3,919	10,415	184.98	4,216	12,530
184.47	3,924	10,454	184.99	4,221	12,572
184.48	3,930	10,493	185.00	4,227	12,614
184.49	3,936	10,533	185.01	4,233	12,657
184.50	3,942	10,572	185.02	4,239	12,699
184.51	3,947	10,612	185.03	4,245	12,741
184.52	3,953	10,651	185.04	4,251	12,784
184.53	3,959	10,691	185.05	4,257	12,826
184.54	3,964	10,730	185.06	4,263	12,869
184.55	3,970	10,770	185.07	4,269	12,912
184.56	3,976	10,810	185.08	4,275	12,954
184.57	3,981	10,850	185.09	4,281	12,997
184.58	3,987	10,889	185.10	4,287	13,040
184.59	3,993	10,929	185.11	4,293	13,083

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.12	4,299	13,126	185.64	4,614	15,443
185.13	4,306	13,169	185.65	4,620	15,489
185.14	4,312	13,212	185.66	4,626	15,536
185.15	4,318	13,255	185.67	4,632	15,582
185.16	4,324	13,298	185.68	4,638	15,628
185.17	4,330	13,342	185.69	4,644	15,675
185.18	4,336	13,385	185.70	4,650	15,721
185.19	4,342	13,428	185.71	4,656	15,768
185.20	4,348	13,472	185.72	4,662	15,814
185.21	4,354	13,515	185.73	4,668	15,861
185.22	4,360	13,559	185.74	4,674	15,908
185.23	4,366	13,603	185.75	4,680	15,954
185.24	4,372	13,646	185.76	4,686	16,001
185.25	4,378	13,690	185.77	4,692	16,048
185.26	4,384	13,734	185.78	4,698	16,095
185.27	4,390	13,778	185.79	4,704	16,142
185.28	4,396	13,822	185.80	4,710	16,189
185.29	4,402	13,866	185.81	4,716	16,236
185.30	4,408	13,910	185.82	4,722	16,284
185.31	4,414	13,954	185.83	4,728	16,331
185.32	4,420	13,998	185.84	4,734	16,378
185.33	4,426	14,042	185.85	4,740	16,425
185.34	4,432	14,086	185.86	4,746	16,473
185.35	4,438	14,131	185.87	4,752	16,520
185.36	4,444	14,175	185.88	4,759	16,568
185.37	4,450	14,220	185.89	4,765	16,616
185.38	4,457	14,264	185.90	4,771	16,663
185.39	4,463	14,309	185.91	4,777	16,711
185.40	4,469	14,353	185.92	4,783	16,759
185.41	4,475	14,398	185.93	4,789	16,807
185.42	4,481	14,443	185.94	4,795	16,855
185.43	4,487	14,488	185.95	4,801	16,903
185.44	4,493	14,533	185.96	4,807	16,951
185.45	4,499	14,578	185.97	4,813	16,999
185.46	4,505	14,623	185.98	4,819	17,047
185.47	4,511	14,668	185.99	4,825	17,095
185.48	4,517	14,713	186.00	4,831	17,143
185.49	4,523	14,758	186.01	4,837	17,192
185.50	4,529	14,803	186.02	4,844	17,240
185.51	4,535	14,849	186.03	4,850	17,289
185.52	4,541	14,894	186.04	4,856	17,337
185.53	4,547	14,939	186.05	4,863	17,386
185.54	4,553	14,985	186.06	4,869	17,434
185.55	4,559	15,031	186.07	4,876	17,483
185.56	4,565	15,076	186.08	4,882	17,532
185.57	4,571	15,122	186.09	4,888	17,581
185.58	4,577	15,168	186.10	4,895	17,630
185.59	4,583	15,213	186.11	4,901	17,679
185.60	4,589	15,259	186.12	4,907	17,728
185.61	4,595	15,305	186.13	4,914	17,777
185.62	4,601	15,351	186.14	4,920	17,826
185.63	4,608	15,397	186.15	4,927	17,875

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.16	4,933	17,924
186.17	4,939	17,974
186.18	4,946	18,023
186.19	4,952	18,073
186.20	4,958	18,122
186.21	4,965	18,172
186.22	4,971	18,222
186.23	4,978	18,271
186.24	4,984	18,321
186.25	4,990	18,371
186.26	4,997	18,421
186.27	5,003	18,471
186.28	5,009	18,521
186.29	5,016	18,571
186.30	5,022	18,621
186.31	5,028	18,672
186.32	5,035	18,722
186.33	5,041	18,772
186.34	5,048	18,823
186.35	5,054	18,873
186.36	5,060	18,924
186.37	5,067	18,974
186.38	5,073	19,025
186.39	5,079	19,076
186.40	5,086	19,127
186.41	5,092	19,178
186.42	5,099	19,229
186.43	5,105	19,280
186.44	5,111	19,331
186.45	5,118	19,382
186.46	5,124	19,433
186.47	5,130	19,484
186.48	5,137	19,536
186.49	5,143	19,587
186.50	5,150	19,638
186.51	5,156	19,690
186.52	5,162	19,742
186.53	5,169	19,793
186.54	5,175	19,845
186.55	5,181	19,897
186.56	5,188	19,949
186.57	5,194	20,000
186.58	5,200	20,052
186.59	5,207	20,104
186.60	5,213	20,157
186.61	5,220	20,209
186.62	5,226	20,261
186.63	5,232	20,313
186.64	5,239	20,366
186.65	5,245	20,418
186.66	5,251	20,471
186.67	5,258	20,523
186.68	5,264	20,576
186.69	5,271	20,628
186.70	5,277	20,681
186.71	5,283	20,734
186.72	5,290	20,787
186.73	5,296	20,840
186.74	5,302	20,893
186.75	5,309	20,946
186.76	5,315	20,999
186.77	5,321	21,052
186.78	5,328	21,105
186.79	5,334	21,159
186.80	5,341	21,212
186.81	5,347	21,265
186.82	5,353	21,319
186.83	5,360	21,372
186.84	5,366	21,426
186.85	5,372	21,480
186.86	5,379	21,534
186.87	5,385	21,587
186.88	5,392	21,641
186.89	5,398	21,695
186.90	5,404	21,749
186.91	5,411	21,803
186.92	5,417	21,857
186.93	5,423	21,912
186.94	5,430	21,966
186.95	5,436	22,020
186.96	5,443	22,075
186.97	5,449	22,129
186.98	5,455	22,184
186.99	5,462	22,238
187.00	**5,468**	**22,293**

Summary for Pond B-43: Basin #43

Inflow Area = 2.712 ac, 33.89% Impervious, Inflow Depth = 1.81" for Current 2 yr event
Inflow = 4.95 cfs @ 12.18 hrs, Volume= 0.409 af
Outflow = 0.73 cfs @ 12.90 hrs, Volume= 0.300 af, Atten= 85%, Lag= 43.3 min
Primary = 0.73 cfs @ 12.90 hrs, Volume= 0.300 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 178.70' @ 12.90 hrs Surf.Area= 5,926 sf Storage= 10,258 cf

Plug-Flow detention time= 506.1 min calculated for 0.300 af (73% of inflow)
Center-of-Mass det. time= 407.0 min (1,211.5 - 804.5)

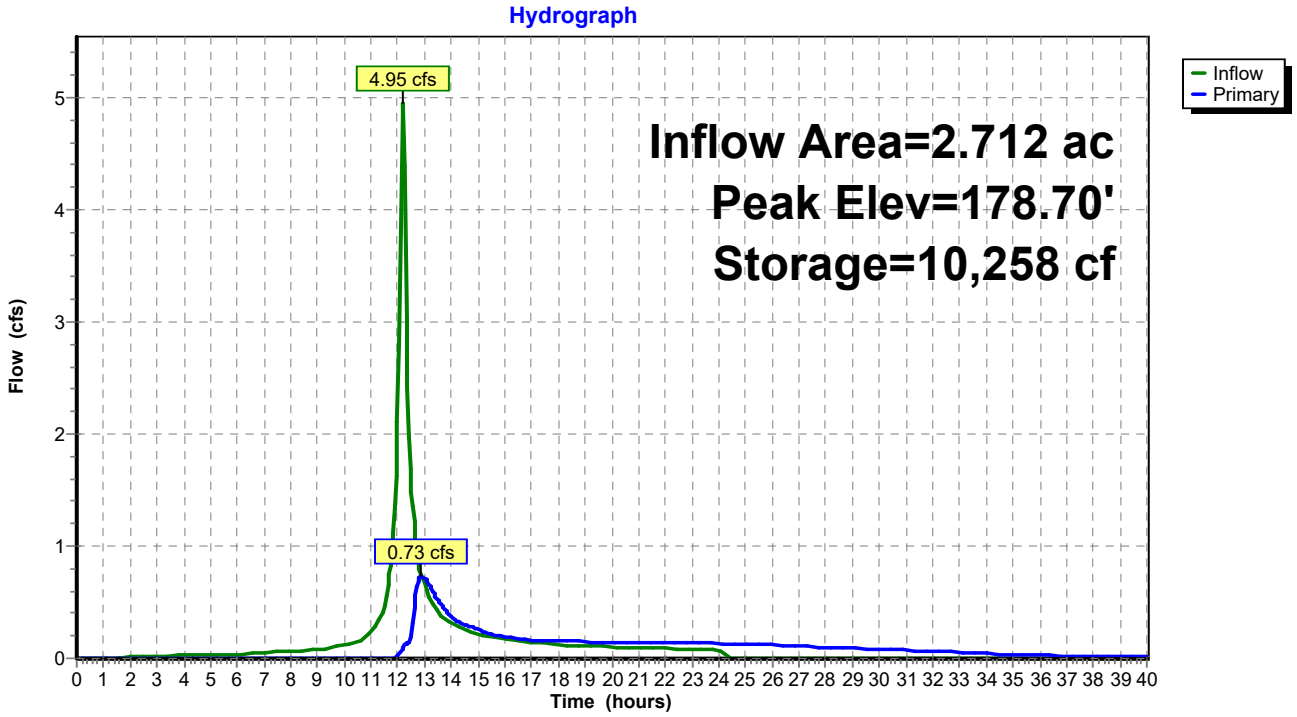
Volume	Invert	Avail.Storage	Storage Description
#1	176.35'	26,392 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
176.35	0	0	0
177.00	4,447	1,445	1,445
178.00	5,292	4,870	6,315
179.00	6,194	5,743	12,058
180.00	7,153	6,674	18,731
181.00	8,168	7,661	26,392

Device	Routing	Invert	Outlet Devices
#1	Primary	176.30'	**18.0" Round Culvert** L= 200.0' Ke= 0.500 Inlet / Outlet Invert= 176.30' / 166.10' S= 0.0510 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	177.62'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	178.58'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	180.00'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.72 cfs @ 12.90 hrs HW=178.70' (Free Discharge)
- **1=Culvert** (Passes 0.72 cfs of 10.94 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.16 cfs @ 4.76 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.56 cfs @ 1.15 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-43: Basin #43



Stage-Discharge for Pond B-43: Basin #43

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
176.35	0.00	176.87	0.00	177.39	0.00	177.91	0.07
176.36	0.00	176.88	0.00	177.40	0.00	177.92	0.07
176.37	0.00	176.89	0.00	177.41	0.00	177.93	0.07
176.38	0.00	176.90	0.00	177.42	0.00	177.94	0.08
176.39	0.00	176.91	0.00	177.43	0.00	177.95	0.08
176.40	0.00	176.92	0.00	177.44	0.00	177.96	0.08
176.41	0.00	176.93	0.00	177.45	0.00	177.97	0.08
176.42	0.00	176.94	0.00	177.46	0.00	177.98	0.08
176.43	0.00	176.95	0.00	177.47	0.00	177.99	0.08
176.44	0.00	176.96	0.00	177.48	0.00	178.00	0.09
176.45	0.00	176.97	0.00	177.49	0.00	178.01	0.09
176.46	0.00	176.98	0.00	177.50	0.00	178.02	0.09
176.47	0.00	176.99	0.00	177.51	0.00	178.03	0.09
176.48	0.00	177.00	0.00	177.52	0.00	178.04	0.09
176.49	0.00	177.01	0.00	177.53	0.00	178.05	0.09
176.50	0.00	177.02	0.00	177.54	0.00	178.06	0.10
176.51	0.00	177.03	0.00	177.55	0.00	178.07	0.10
176.52	0.00	177.04	0.00	177.56	0.00	178.08	0.10
176.53	0.00	177.05	0.00	177.57	0.00	178.09	0.10
176.54	0.00	177.06	0.00	177.58	0.00	178.10	0.10
176.55	0.00	177.07	0.00	177.59	0.00	178.11	0.10
176.56	0.00	177.08	0.00	177.60	0.00	178.12	0.10
176.57	0.00	177.09	0.00	177.61	0.00	178.13	0.10
176.58	0.00	177.10	0.00	177.62	0.00	178.14	0.11
176.59	0.00	177.11	0.00	177.63	0.00	178.15	0.11
176.60	0.00	177.12	0.00	177.64	0.00	178.16	0.11
176.61	0.00	177.13	0.00	177.65	0.00	178.17	0.11
176.62	0.00	177.14	0.00	177.66	0.00	178.18	0.11
176.63	0.00	177.15	0.00	177.67	0.00	178.19	0.11
176.64	0.00	177.16	0.00	177.68	0.01	178.20	0.11
176.65	0.00	177.17	0.00	177.69	0.01	178.21	0.11
176.66	0.00	177.18	0.00	177.70	0.01	178.22	0.12
176.67	0.00	177.19	0.00	177.71	0.01	178.23	0.12
176.68	0.00	177.20	0.00	177.72	0.02	178.24	0.12
176.69	0.00	177.21	0.00	177.73	0.02	178.25	0.12
176.70	0.00	177.22	0.00	177.74	0.02	178.26	0.12
176.71	0.00	177.23	0.00	177.75	0.03	178.27	0.12
176.72	0.00	177.24	0.00	177.76	0.03	178.28	0.12
176.73	0.00	177.25	0.00	177.77	0.03	178.29	0.12
176.74	0.00	177.26	0.00	177.78	0.04	178.30	0.12
176.75	0.00	177.27	0.00	177.79	0.04	178.31	0.13
176.76	0.00	177.28	0.00	177.80	0.05	178.32	0.13
176.77	0.00	177.29	0.00	177.81	0.05	178.33	0.13
176.78	0.00	177.30	0.00	177.82	0.05	178.34	0.13
176.79	0.00	177.31	0.00	177.83	0.05	178.35	0.13
176.80	0.00	177.32	0.00	177.84	0.06	178.36	0.13
176.81	0.00	177.33	0.00	177.85	0.06	178.37	0.13
176.82	0.00	177.34	0.00	177.86	0.06	178.38	0.13
176.83	0.00	177.35	0.00	177.87	0.06	178.39	0.13
176.84	0.00	177.36	0.00	177.88	0.06	178.40	0.13
176.85	0.00	177.37	0.00	177.89	0.07	178.41	0.14
176.86	0.00	177.38	0.00	177.90	0.07	178.42	0.14

Stage-Discharge for Pond B-43: Basin #43 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
178.43	0.14	178.95	3.07	179.47	10.71	179.99	14.59
178.44	0.14	178.96	3.19	179.48	10.88	180.00	14.61
178.45	0.14	178.97	3.31	179.49	11.06	180.01	14.76
178.46	0.14	178.98	3.43	179.50	11.23	180.02	14.99
178.47	0.14	178.99	3.55	179.51	11.40	180.03	15.30
178.48	0.14	179.00	3.67	179.52	11.58	180.04	15.65
178.49	0.14	179.01	3.79	179.53	11.76	180.05	16.05
178.50	0.14	179.02	3.92	179.54	11.93	180.06	16.49
178.51	0.15	179.03	4.05	179.55	12.11	180.07	16.96
178.52	0.15	179.04	4.18	179.56	12.29	180.08	17.47
178.53	0.15	179.05	4.30	179.57	12.47	180.09	18.01
178.54	0.15	179.06	4.44	179.58	12.65	180.10	18.58
178.55	0.15	179.07	4.57	179.59	12.83	180.11	19.18
178.56	0.15	179.08	4.70	179.60	13.01	180.12	19.80
178.57	0.15	179.09	4.83	179.61	13.19	180.13	20.45
178.58	0.15	179.10	4.97	179.62	13.38	180.14	21.13
178.59	0.17	179.11	5.11	179.63	13.56	180.15	21.83
178.60	0.19	179.12	5.24	179.64	13.69	180.16	22.55
178.61	0.22	179.13	5.38	179.65	13.72	180.17	23.30
178.62	0.26	179.14	5.52	179.66	13.75	180.18	24.07
178.63	0.30	179.15	5.66	179.67	13.77	180.19	24.86
178.64	0.35	179.16	5.81	179.68	13.80	180.20	25.67
178.65	0.40	179.17	5.95	179.69	13.83	180.21	26.54
178.66	0.45	179.18	6.09	179.70	13.85	180.22	27.43
178.67	0.51	179.19	6.24	179.71	13.88	180.23	28.36
178.68	0.57	179.20	6.39	179.72	13.90	180.24	29.30
178.69	0.64	179.21	6.53	179.73	13.93	180.25	30.27
178.70	0.70	179.22	6.68	179.74	13.96	180.26	31.27
178.71	0.77	179.23	6.83	179.75	13.98	180.27	32.29
178.72	0.84	179.24	6.98	179.76	14.01	180.28	33.34
178.73	0.92	179.25	7.14	179.77	14.03	180.29	34.41
178.74	1.00	179.26	7.29	179.78	14.06	180.30	35.51
178.75	1.08	179.27	7.44	179.79	14.08	180.31	36.63
178.76	1.16	179.28	7.60	179.80	14.11	180.32	37.77
178.77	1.24	179.29	7.75	179.81	14.14	180.33	38.94
178.78	1.33	179.30	7.91	179.82	14.16	180.34	40.14
178.79	1.41	179.31	8.07	179.83	14.19	180.35	41.35
178.80	1.51	179.32	8.23	179.84	14.21	180.36	42.60
178.81	1.60	179.33	8.39	179.85	14.24	180.37	43.86
178.82	1.69	179.34	8.55	179.86	14.26	180.38	45.15
178.83	1.79	179.35	8.71	179.87	14.29	180.39	46.47
178.84	1.88	179.36	8.87	179.88	14.31	180.40	47.80
178.85	1.98	179.37	9.03	179.89	14.34	180.41	49.19
178.86	2.09	179.38	9.20	179.90	14.36	180.42	50.61
178.87	2.19	179.39	9.36	179.91	14.39	180.43	52.05
178.88	2.29	179.40	9.53	179.92	14.41	180.44	53.52
178.89	2.40	179.41	9.69	179.93	14.44	180.45	55.01
178.90	2.51	179.42	9.86	179.94	14.46	180.46	56.53
178.91	2.62	179.43	10.03	179.95	14.49	180.47	58.07
178.92	2.73	179.44	10.20	179.96	14.51	180.48	59.65
178.93	2.84	179.45	10.37	179.97	14.54	180.49	61.24
178.94	2.96	179.46	10.54	179.98	14.56	180.50	62.87

Stage-Discharge for Pond B-43: Basin #43 (continued)

Elevation (feet)	Primary (cfs)
180.51	64.52
180.52	66.20
180.53	67.90
180.54	69.63
180.55	71.39
180.56	73.18
180.57	74.99
180.58	76.82
180.59	78.69
180.60	80.58
180.61	82.23
180.62	83.89
180.63	85.57
180.64	87.26
180.65	88.96
180.66	90.68
180.67	92.41
180.68	94.15
180.69	95.91
180.70	97.67
180.71	99.46
180.72	101.25
180.73	103.05
180.74	104.87
180.75	106.70
180.76	108.55
180.77	110.40
180.78	112.27
180.79	114.15
180.80	116.04
180.81	117.98
180.82	119.94
180.83	121.91
180.84	123.89
180.85	125.88
180.86	127.89
180.87	129.91
180.88	131.94
180.89	133.99
180.90	136.05
180.91	138.12
180.92	140.21
180.93	142.30
180.94	144.41
180.95	146.54
180.96	148.67
180.97	150.82
180.98	152.98
180.99	155.16
181.00	**157.34**

Stage-Area-Storage for Pond B-43: Basin #43

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
176.35	0	0
176.36	68	0
176.37	137	1
176.38	205	3
176.39	274	5
176.40	342	9
176.41	410	12
176.42	479	17
176.43	547	22
176.44	616	28
176.45	684	34
176.46	753	41
176.47	821	49
176.48	889	58
176.49	958	67
176.50	1,026	77
176.51	1,095	88
176.52	1,163	99
176.53	1,231	111
176.54	1,300	123
176.55	1,368	137
176.56	1,437	151
176.57	1,505	166
176.58	1,574	181
176.59	1,642	197
176.60	1,710	214
176.61	1,779	231
176.62	1,847	249
176.63	1,916	268
176.64	1,984	288
176.65	2,052	308
176.66	2,121	329
176.67	2,189	350
176.68	2,258	373
176.69	2,326	395
176.70	2,395	419
176.71	2,463	443
176.72	2,531	468
176.73	2,600	494
176.74	2,668	520
176.75	2,737	547
176.76	2,805	575
176.77	2,873	603
176.78	2,942	633
176.79	3,010	662
176.80	3,079	693
176.81	3,147	724
176.82	3,216	756
176.83	3,284	788
176.84	3,352	821
176.85	3,421	855
176.86	3,489	890
176.87	3,558	925
176.88	3,626	961
176.89	3,694	997
176.90	3,763	1,035
176.91	3,831	1,073
176.92	3,900	1,111
176.93	3,968	1,151
176.94	4,037	1,191
176.95	4,105	1,231
176.96	4,173	1,273
176.97	4,242	1,315
176.98	4,310	1,358
176.99	4,379	1,401
177.00	4,447	1,445
177.01	4,455	1,490
177.02	4,464	1,534
177.03	4,472	1,579
177.04	4,481	1,624
177.05	4,489	1,669
177.06	4,498	1,714
177.07	4,506	1,759
177.08	4,515	1,804
177.09	4,523	1,849
177.10	4,531	1,894
177.11	4,540	1,940
177.12	4,548	1,985
177.13	4,557	2,031
177.14	4,565	2,076
177.15	4,574	2,122
177.16	4,582	2,168
177.17	4,591	2,213
177.18	4,599	2,259
177.19	4,608	2,305
177.20	4,616	2,352
177.21	4,624	2,398
177.22	4,633	2,444
177.23	4,641	2,490
177.24	4,650	2,537
177.25	4,658	2,583
177.26	4,667	2,630
177.27	4,675	2,677
177.28	4,684	2,724
177.29	4,692	2,770
177.30	4,700	2,817
177.31	4,709	2,864
177.32	4,717	2,912
177.33	4,726	2,959
177.34	4,734	3,006
177.35	4,743	3,053
177.36	4,751	3,101
177.37	4,760	3,149
177.38	4,768	3,196

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
177.39	4,777	3,244	177.91	5,216	5,842
177.40	4,785	3,292	177.92	5,224	5,894
177.41	4,793	3,340	177.93	5,233	5,946
177.42	4,802	3,388	177.94	5,241	5,999
177.43	4,810	3,436	177.95	5,250	6,051
177.44	4,819	3,484	177.96	5,258	6,104
177.45	4,827	3,532	177.97	5,267	6,156
177.46	4,836	3,580	177.98	5,275	6,209
177.47	4,844	3,629	177.99	5,284	6,262
177.48	4,853	3,677	178.00	5,292	6,315
177.49	4,861	3,726	178.01	5,301	6,368
177.50	4,870	3,774	178.02	5,310	6,421
177.51	4,878	3,823	178.03	5,319	6,474
177.52	4,886	3,872	178.04	5,328	6,527
177.53	4,895	3,921	178.05	5,337	6,581
177.54	4,903	3,970	178.06	5,346	6,634
177.55	4,912	4,019	178.07	5,355	6,687
177.56	4,920	4,068	178.08	5,364	6,741
177.57	4,929	4,117	178.09	5,373	6,795
177.58	4,937	4,167	178.10	5,382	6,848
177.59	4,946	4,216	178.11	5,391	6,902
177.60	4,954	4,266	178.12	5,400	6,956
177.61	4,962	4,315	178.13	5,409	7,010
177.62	4,971	4,365	178.14	5,418	7,064
177.63	4,979	4,415	178.15	5,427	7,119
177.64	4,988	4,464	178.16	5,436	7,173
177.65	4,996	4,514	178.17	5,445	7,227
177.66	5,005	4,564	178.18	5,454	7,282
177.67	5,013	4,614	178.19	5,463	7,337
177.68	5,022	4,665	178.20	5,472	7,391
177.69	5,030	4,715	178.21	5,481	7,446
177.70	5,038	4,765	178.22	5,490	7,501
177.71	5,047	4,816	178.23	5,499	7,556
177.72	5,055	4,866	178.24	5,508	7,611
177.73	5,064	4,917	178.25	5,518	7,666
177.74	5,072	4,967	178.26	5,527	7,721
177.75	5,081	5,018	178.27	5,536	7,776
177.76	5,089	5,069	178.28	5,545	7,832
177.77	5,098	5,120	178.29	5,554	7,887
177.78	5,106	5,171	178.30	5,563	7,943
177.79	5,115	5,222	178.31	5,572	7,999
177.80	5,123	5,273	178.32	5,581	8,054
177.81	5,131	5,325	178.33	5,590	8,110
177.82	5,140	5,376	178.34	5,599	8,166
177.83	5,148	5,427	178.35	5,608	8,222
177.84	5,157	5,479	178.36	5,617	8,278
177.85	5,165	5,530	178.37	5,626	8,335
177.86	5,174	5,582	178.38	5,635	8,391
177.87	5,182	5,634	178.39	5,644	8,447
177.88	5,191	5,686	178.40	5,653	8,504
177.89	5,199	5,738	178.41	5,662	8,560
177.90	5,208	5,790	178.42	5,671	8,617

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.43	5,680	8,674	178.95	6,149	11,749
178.44	5,689	8,731	178.96	6,158	11,811
178.45	5,698	8,788	178.97	6,167	11,872
178.46	5,707	8,845	178.98	6,176	11,934
178.47	5,716	8,902	178.99	6,185	11,996
178.48	5,725	8,959	179.00	6,194	12,058
178.49	5,734	9,016	179.01	6,204	12,120
178.50	5,743	9,074	179.02	6,213	12,182
178.51	5,752	9,131	179.03	6,223	12,244
178.52	5,761	9,189	179.04	6,232	12,306
178.53	5,770	9,246	179.05	6,242	12,369
178.54	5,779	9,304	179.06	6,252	12,431
178.55	5,788	9,362	179.07	6,261	12,494
178.56	5,797	9,420	179.08	6,271	12,556
178.57	5,806	9,478	179.09	6,280	12,619
178.58	5,815	9,536	179.10	6,290	12,682
178.59	5,824	9,594	179.11	6,299	12,745
178.60	5,833	9,652	179.12	6,309	12,808
178.61	5,842	9,711	179.13	6,319	12,871
178.62	5,851	9,769	179.14	6,328	12,934
178.63	5,860	9,828	179.15	6,338	12,998
178.64	5,869	9,886	179.16	6,347	13,061
178.65	5,878	9,945	179.17	6,357	13,125
178.66	5,887	10,004	179.18	6,367	13,188
178.67	5,896	10,063	179.19	6,376	13,252
178.68	5,905	10,122	179.20	6,386	13,316
178.69	5,914	10,181	179.21	6,395	13,380
178.70	5,923	10,240	179.22	6,405	13,444
178.71	5,932	10,299	179.23	6,415	13,508
178.72	5,941	10,359	179.24	6,424	13,572
178.73	5,950	10,418	179.25	6,434	13,636
178.74	5,959	10,478	179.26	6,443	13,701
178.75	5,969	10,537	179.27	6,453	13,765
178.76	5,978	10,597	179.28	6,463	13,830
178.77	5,987	10,657	179.29	6,472	13,894
178.78	5,996	10,717	179.30	6,482	13,959
178.79	6,005	10,777	179.31	6,491	14,024
178.80	6,014	10,837	179.32	6,501	14,089
178.81	6,023	10,897	179.33	6,510	14,154
178.82	6,032	10,957	179.34	6,520	14,219
178.83	6,041	11,018	179.35	6,530	14,284
178.84	6,050	11,078	179.36	6,539	14,350
178.85	6,059	11,139	179.37	6,549	14,415
178.86	6,068	11,199	179.38	6,558	14,481
178.87	6,077	11,260	179.39	6,568	14,546
178.88	6,086	11,321	179.40	6,578	14,612
178.89	6,095	11,382	179.41	6,587	14,678
178.90	6,104	11,443	179.42	6,597	14,744
178.91	6,113	11,504	179.43	6,606	14,810
178.92	6,122	11,565	179.44	6,616	14,876
178.93	6,131	11,626	179.45	6,626	14,942
178.94	6,140	11,688	179.46	6,635	15,008

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.47	6,645	15,075	179.99	7,143	18,660
179.48	6,654	15,141	180.00	7,153	18,731
179.49	6,664	15,208	180.01	7,163	18,803
179.50	6,674	15,275	180.02	7,173	18,875
179.51	6,683	15,341	180.03	7,183	18,946
179.52	6,693	15,408	180.04	7,194	19,018
179.53	6,702	15,475	180.05	7,204	19,090
179.54	6,712	15,542	180.06	7,214	19,162
179.55	6,721	15,610	180.07	7,224	19,234
179.56	6,731	15,677	180.08	7,234	19,307
179.57	6,741	15,744	180.09	7,244	19,379
179.58	6,750	15,812	180.10	7,254	19,452
179.59	6,760	15,879	180.11	7,265	19,524
179.60	6,769	15,947	180.12	7,275	19,597
179.61	6,779	16,015	180.13	7,285	19,670
179.62	6,789	16,082	180.14	7,295	19,743
179.63	6,798	16,150	180.15	7,305	19,816
179.64	6,808	16,218	180.16	7,315	19,889
179.65	6,817	16,286	180.17	7,326	19,962
179.66	6,827	16,355	180.18	7,336	20,035
179.67	6,837	16,423	180.19	7,346	20,109
179.68	6,846	16,491	180.20	7,356	20,182
179.69	6,856	16,560	180.21	7,366	20,256
179.70	6,865	16,629	180.22	7,376	20,329
179.71	6,875	16,697	180.23	7,386	20,403
179.72	6,884	16,766	180.24	7,397	20,477
179.73	6,894	16,835	180.25	7,407	20,551
179.74	6,904	16,904	180.26	7,417	20,625
179.75	6,913	16,973	180.27	7,427	20,700
179.76	6,923	17,042	180.28	7,437	20,774
179.77	6,932	17,111	180.29	7,447	20,848
179.78	6,942	17,181	180.30	7,457	20,923
179.79	6,952	17,250	180.31	7,468	20,997
179.80	6,961	17,320	180.32	7,478	21,072
179.81	6,971	17,390	180.33	7,488	21,147
179.82	6,980	17,459	180.34	7,498	21,222
179.83	6,990	17,529	180.35	7,508	21,297
179.84	7,000	17,599	180.36	7,518	21,372
179.85	7,009	17,669	180.37	7,529	21,447
179.86	7,019	17,739	180.38	7,539	21,523
179.87	7,028	17,809	180.39	7,549	21,598
179.88	7,038	17,880	180.40	7,559	21,674
179.89	7,048	17,950	180.41	7,569	21,749
179.90	7,057	18,021	180.42	7,579	21,825
179.91	7,067	18,091	180.43	7,589	21,901
179.92	7,076	18,162	180.44	7,600	21,977
179.93	7,086	18,233	180.45	7,610	22,053
179.94	7,095	18,304	180.46	7,620	22,129
179.95	7,105	18,375	180.47	7,630	22,205
179.96	7,115	18,446	180.48	7,640	22,282
179.97	7,124	18,517	180.49	7,650	22,358
179.98	7,134	18,588	180.50	7,661	22,435

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.51	7,671	22,511
180.52	7,681	22,588
180.53	7,691	22,665
180.54	7,701	22,742
180.55	7,711	22,819
180.56	7,721	22,896
180.57	7,732	22,973
180.58	7,742	23,051
180.59	7,752	23,128
180.60	7,762	23,206
180.61	7,772	23,283
180.62	7,782	23,361
180.63	7,792	23,439
180.64	7,803	23,517
180.65	7,813	23,595
180.66	7,823	23,673
180.67	7,833	23,752
180.68	7,843	23,830
180.69	7,853	23,908
180.70	7,863	23,987
180.71	7,874	24,066
180.72	7,884	24,145
180.73	7,894	24,223
180.74	7,904	24,302
180.75	7,914	24,381
180.76	7,924	24,461
180.77	7,935	24,540
180.78	7,945	24,619
180.79	7,955	24,699
180.80	7,965	24,778
180.81	7,975	24,858
180.82	7,985	24,938
180.83	7,995	25,018
180.84	8,006	25,098
180.85	8,016	25,178
180.86	8,026	25,258
180.87	8,036	25,339
180.88	8,046	25,419
180.89	8,056	25,499
180.90	8,067	25,580
180.91	8,077	25,661
180.92	8,087	25,742
180.93	8,097	25,823
180.94	8,107	25,904
180.95	8,117	25,985
180.96	8,127	26,066
180.97	8,138	26,147
180.98	8,148	26,229
180.99	8,158	26,310
181.00	**8,168**	**26,392**

Summary for Pond B-44: Basin #44

Inflow Area = 1.184 ac, 34.71% Impervious, Inflow Depth = 1.82" for Current 2 yr event
Inflow = 2.18 cfs @ 12.18 hrs, Volume= 0.180 af
Outflow = 0.06 cfs @ 17.10 hrs, Volume= 0.073 af, Atten= 97%, Lag= 295.4 min
Primary = 0.06 cfs @ 17.10 hrs, Volume= 0.073 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 166.66' @ 17.10 hrs Surf.Area= 6,236 sf Storage= 5,923 cf

Plug-Flow detention time= 638.0 min calculated for 0.073 af (41% of inflow)
Center-of-Mass det. time= 491.1 min (1,294.6 - 803.5)

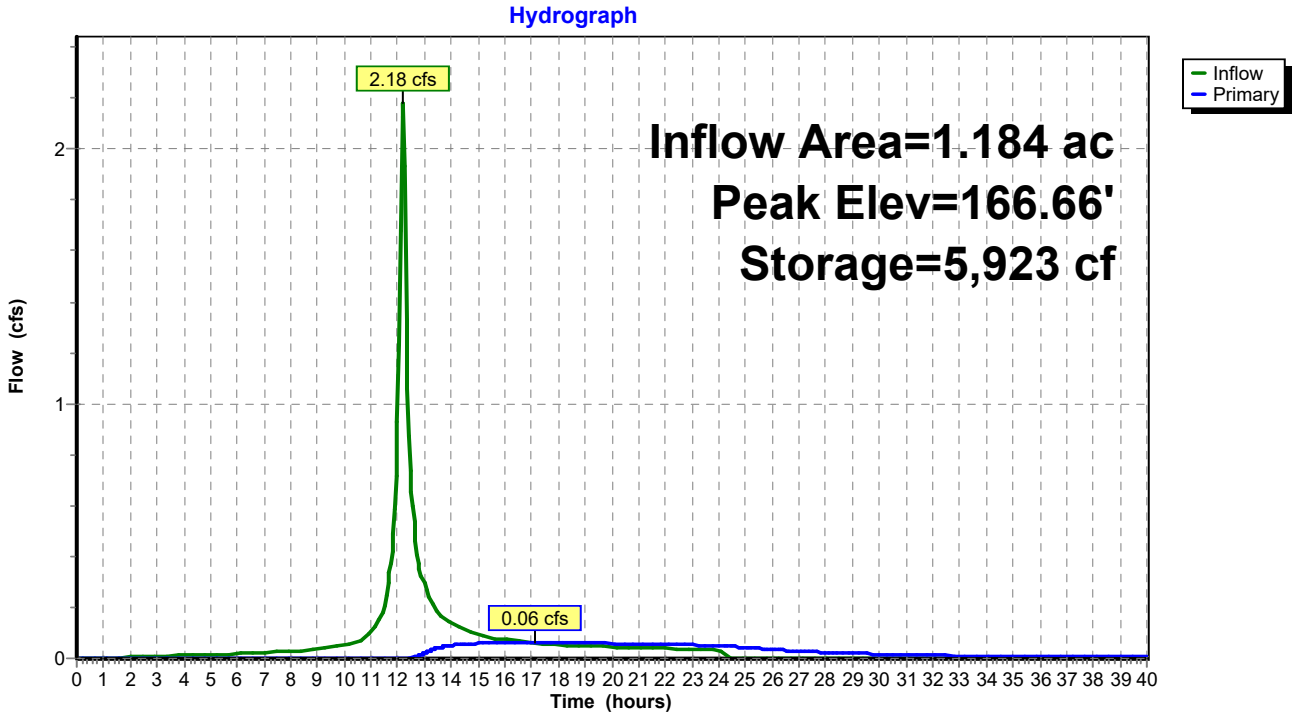
Volume	Invert	Avail.Storage	Storage Description
#1	165.30'	31,812 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
165.30	0	0	0
166.00	5,690	1,991	1,991
167.00	6,518	6,104	8,095
168.00	7,407	6,963	15,058
169.00	8,360	7,884	22,941
170.00	9,381	8,871	31,812

Device	Routing	Invert	Outlet Devices
#1	Primary	165.30'	**18.0" Round Culvert** L= 44.0' Ke= 0.500 Inlet / Outlet Invert= 165.30' / 164.00' S= 0.0295 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	166.41'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	167.50'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	168.98'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.06 cfs @ 17.10 hrs HW=166.66' (Free Discharge)
- **1=Culvert** (Passes 0.06 cfs of 6.68 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.06 cfs @ 1.83 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-44: Basin #44



Stage-Discharge for Pond B-44: Basin #44

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
165.30	0.00	165.82	0.00	166.34	0.00	166.86	0.10
165.31	0.00	165.83	0.00	166.35	0.00	166.87	0.10
165.32	0.00	165.84	0.00	166.36	0.00	166.88	0.10
165.33	0.00	165.85	0.00	166.37	0.00	166.89	0.10
165.34	0.00	165.86	0.00	166.38	0.00	166.90	0.10
165.35	0.00	165.87	0.00	166.39	0.00	166.91	0.10
165.36	0.00	165.88	0.00	166.40	0.00	166.92	0.10
165.37	0.00	165.89	0.00	166.41	0.00	166.93	0.11
165.38	0.00	165.90	0.00	166.42	0.00	166.94	0.11
165.39	0.00	165.91	0.00	166.43	0.00	166.95	0.11
165.40	0.00	165.92	0.00	166.44	0.00	166.96	0.11
165.41	0.00	165.93	0.00	166.45	0.00	166.97	0.11
165.42	0.00	165.94	0.00	166.46	0.00	166.98	0.11
165.43	0.00	165.95	0.00	166.47	0.01	166.99	0.11
165.44	0.00	165.96	0.00	166.48	0.01	167.00	0.11
165.45	0.00	165.97	0.00	166.49	0.01	167.01	0.12
165.46	0.00	165.98	0.00	166.50	0.01	167.02	0.12
165.47	0.00	165.99	0.00	166.51	0.02	167.03	0.12
165.48	0.00	166.00	0.00	166.52	0.02	167.04	0.12
165.49	0.00	166.01	0.00	166.53	0.02	167.05	0.12
165.50	0.00	166.02	0.00	166.54	0.03	167.06	0.12
165.51	0.00	166.03	0.00	166.55	0.03	167.07	0.12
165.52	0.00	166.04	0.00	166.56	0.03	167.08	0.12
165.53	0.00	166.05	0.00	166.57	0.04	167.09	0.12
165.54	0.00	166.06	0.00	166.58	0.04	167.10	0.13
165.55	0.00	166.07	0.00	166.59	0.05	167.11	0.13
165.56	0.00	166.08	0.00	166.60	0.05	167.12	0.13
165.57	0.00	166.09	0.00	166.61	0.05	167.13	0.13
165.58	0.00	166.10	0.00	166.62	0.05	167.14	0.13
165.59	0.00	166.11	0.00	166.63	0.06	167.15	0.13
165.60	0.00	166.12	0.00	166.64	0.06	167.16	0.13
165.61	0.00	166.13	0.00	166.65	0.06	167.17	0.13
165.62	0.00	166.14	0.00	166.66	0.06	167.18	0.13
165.63	0.00	166.15	0.00	166.67	0.06	167.19	0.13
165.64	0.00	166.16	0.00	166.68	0.07	167.20	0.14
165.65	0.00	166.17	0.00	166.69	0.07	167.21	0.14
165.66	0.00	166.18	0.00	166.70	0.07	167.22	0.14
165.67	0.00	166.19	0.00	166.71	0.07	167.23	0.14
165.68	0.00	166.20	0.00	166.72	0.07	167.24	0.14
165.69	0.00	166.21	0.00	166.73	0.08	167.25	0.14
165.70	0.00	166.22	0.00	166.74	0.08	167.26	0.14
165.71	0.00	166.23	0.00	166.75	0.08	167.27	0.14
165.72	0.00	166.24	0.00	166.76	0.08	167.28	0.14
165.73	0.00	166.25	0.00	166.77	0.08	167.29	0.14
165.74	0.00	166.26	0.00	166.78	0.08	167.30	0.15
165.75	0.00	166.27	0.00	166.79	0.09	167.31	0.15
165.76	0.00	166.28	0.00	166.80	0.09	167.32	0.15
165.77	0.00	166.29	0.00	166.81	0.09	167.33	0.15
165.78	0.00	166.30	0.00	166.82	0.09	167.34	0.15
165.79	0.00	166.31	0.00	166.83	0.09	167.35	0.15
165.80	0.00	166.32	0.00	166.84	0.09	167.36	0.15
165.81	0.00	166.33	0.00	166.85	0.10	167.37	0.15

Stage-Discharge for Pond B-44: Basin #44 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
167.38	0.15	167.90	3.44	168.42	11.24	168.94	14.46
167.39	0.15	167.91	3.56	168.43	11.41	168.95	14.49
167.40	0.15	167.92	3.68	168.44	11.59	168.96	14.51
167.41	0.16	167.93	3.80	168.45	11.76	168.97	14.54
167.42	0.16	167.94	3.93	168.46	11.94	168.98	14.56
167.43	0.16	167.95	4.06	168.47	12.12	168.99	14.71
167.44	0.16	167.96	4.18	168.48	12.30	169.00	14.95
167.45	0.16	167.97	4.31	168.49	12.48	169.01	15.25
167.46	0.16	167.98	4.44	168.50	12.66	169.02	15.60
167.47	0.16	167.99	4.58	168.51	12.84	169.03	16.00
167.48	0.16	168.00	4.71	168.52	13.02	169.04	16.44
167.49	0.16	168.01	4.84	168.53	13.20	169.05	16.91
167.50	0.16	168.02	4.98	168.54	13.38	169.06	17.42
167.51	0.18	168.03	5.12	168.55	13.45	169.07	17.96
167.52	0.20	168.04	5.25	168.56	13.48	169.08	18.53
167.53	0.23	168.05	5.39	168.57	13.51	169.09	19.13
167.54	0.27	168.06	5.53	168.58	13.53	169.10	19.75
167.55	0.31	168.07	5.67	168.59	13.56	169.11	20.40
167.56	0.36	168.08	5.82	168.60	13.59	169.12	21.08
167.57	0.41	168.09	5.96	168.61	13.61	169.13	21.78
167.58	0.46	168.10	6.10	168.62	13.64	169.14	22.50
167.59	0.52	168.11	6.25	168.63	13.67	169.15	23.25
167.60	0.58	168.12	6.40	168.64	13.69	169.16	24.02
167.61	0.65	168.13	6.54	168.65	13.72	169.17	24.81
167.62	0.71	168.14	6.69	168.66	13.75	169.18	25.62
167.63	0.78	168.15	6.84	168.67	13.77	169.19	26.49
167.64	0.85	168.16	6.99	168.68	13.80	169.20	27.39
167.65	0.93	168.17	7.14	168.69	13.83	169.21	28.31
167.66	1.01	168.18	7.30	168.70	13.85	169.22	29.25
167.67	1.09	168.19	7.45	168.71	13.88	169.23	30.23
167.68	1.17	168.20	7.61	168.72	13.90	169.24	31.22
167.69	1.25	168.21	7.76	168.73	13.93	169.25	32.25
167.70	1.34	168.22	7.92	168.74	13.96	169.26	33.29
167.71	1.43	168.23	8.08	168.75	13.98	169.27	34.36
167.72	1.52	168.24	8.23	168.76	14.01	169.28	35.46
167.73	1.61	168.25	8.39	168.77	14.03	169.29	36.58
167.74	1.70	168.26	8.55	168.78	14.06	169.30	37.73
167.75	1.80	168.27	8.72	168.79	14.08	169.31	38.90
167.76	1.89	168.28	8.88	168.80	14.11	169.32	40.09
167.77	1.99	168.29	9.04	168.81	14.14	169.33	41.31
167.78	2.10	168.30	9.20	168.82	14.16	169.34	42.55
167.79	2.20	168.31	9.37	168.83	14.19	169.35	43.81
167.80	2.30	168.32	9.53	168.84	14.21	169.36	45.10
167.81	2.41	168.33	9.70	168.85	14.24	169.37	46.42
167.82	2.52	168.34	9.87	168.86	14.26	169.38	47.76
167.83	2.63	168.35	10.04	168.87	14.29	169.39	49.15
167.84	2.74	168.36	10.21	168.88	14.31	169.40	50.56
167.85	2.85	168.37	10.38	168.89	14.34	169.41	52.00
167.86	2.96	168.38	10.55	168.90	14.36	169.42	53.47
167.87	3.08	168.39	10.72	168.91	14.39	169.43	54.96
167.88	3.20	168.40	10.89	168.92	14.41	169.44	56.48
167.89	3.32	168.41	11.06	168.93	14.44	169.45	58.03

Stage-Discharge for Pond B-44: Basin #44 (continued)

Elevation (feet)	Primary (cfs)
169.46	59.60
169.47	61.20
169.48	62.82
169.49	64.47
169.50	66.15
169.51	67.86
169.52	69.59
169.53	71.35
169.54	73.13
169.55	74.94
169.56	76.78
169.57	78.64
169.58	80.54
169.59	82.19
169.60	83.85
169.61	85.52
169.62	87.21
169.63	88.92
169.64	90.63
169.65	92.36
169.66	94.11
169.67	95.86
169.68	97.63
169.69	99.41
169.70	101.20
169.71	103.01
169.72	104.83
169.73	106.66
169.74	108.50
169.75	110.36
169.76	112.23
169.77	114.11
169.78	116.00
169.79	117.94
169.80	119.89
169.81	121.86
169.82	123.84
169.83	125.84
169.84	127.85
169.85	129.87
169.86	131.90
169.87	133.95
169.88	136.01
169.89	138.08
169.90	140.16
169.91	142.26
169.92	144.37
169.93	146.49
169.94	148.63
169.95	150.78
169.96	152.94
169.97	155.11
169.98	157.30
169.99	159.45
170.00	**161.60**

Stage-Area-Storage for Pond B-44: Basin #44

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
165.30	0	0
165.31	81	0
165.32	163	2
165.33	244	4
165.34	325	7
165.35	406	10
165.36	488	15
165.37	569	20
165.38	650	26
165.39	732	33
165.40	813	41
165.41	894	49
165.42	975	59
165.43	1,057	69
165.44	1,138	80
165.45	1,219	91
165.46	1,301	104
165.47	1,382	117
165.48	1,463	132
165.49	1,544	147
165.50	1,626	163
165.51	1,707	179
165.52	1,788	197
165.53	1,870	215
165.54	1,951	234
165.55	2,032	254
165.56	2,113	275
165.57	2,195	296
165.58	2,276	319
165.59	2,357	342
165.60	2,439	366
165.61	2,520	391
165.62	2,601	416
165.63	2,682	443
165.64	2,764	470
165.65	2,845	498
165.66	2,926	527
165.67	3,008	556
165.68	3,089	587
165.69	3,170	618
165.70	3,251	650
165.71	3,333	683
165.72	3,414	717
165.73	3,495	751
165.74	3,577	787
165.75	3,658	823
165.76	3,739	860
165.77	3,820	898
165.78	3,902	936
165.79	3,983	976
165.80	4,064	1,016
165.81	4,146	1,057
165.82	4,227	1,099
165.83	4,308	1,142
165.84	4,389	1,185
165.85	4,471	1,229
165.86	4,552	1,275
165.87	4,633	1,320
165.88	4,715	1,367
165.89	4,796	1,415
165.90	4,877	1,463
165.91	4,958	1,512
165.92	5,040	1,562
165.93	5,121	1,613
165.94	5,202	1,665
165.95	5,284	1,717
165.96	5,365	1,770
165.97	5,446	1,824
165.98	5,527	1,879
165.99	5,609	1,935
166.00	5,690	1,991
166.01	5,698	2,048
166.02	5,707	2,105
166.03	5,715	2,163
166.04	5,723	2,220
166.05	5,731	2,277
166.06	5,740	2,334
166.07	5,748	2,392
166.08	5,756	2,449
166.09	5,765	2,507
166.10	5,773	2,565
166.11	5,781	2,622
166.12	5,789	2,680
166.13	5,798	2,738
166.14	5,806	2,796
166.15	5,814	2,854
166.16	5,822	2,912
166.17	5,831	2,971
166.18	5,839	3,029
166.19	5,847	3,088
166.20	5,856	3,146
166.21	5,864	3,205
166.22	5,872	3,263
166.23	5,880	3,322
166.24	5,889	3,381
166.25	5,897	3,440
166.26	5,905	3,499
166.27	5,914	3,558
166.28	5,922	3,617
166.29	5,930	3,676
166.30	5,938	3,736
166.31	5,947	3,795
166.32	5,955	3,855
166.33	5,963	3,914

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
166.34	5,972	3,974	166.86	6,402	7,191
166.35	5,980	4,034	166.87	6,410	7,255
166.36	5,988	4,094	166.88	6,419	7,319
166.37	5,996	4,153	166.89	6,427	7,384
166.38	6,005	4,213	166.90	6,435	7,448
166.39	6,013	4,274	166.91	6,443	7,512
166.40	6,021	4,334	166.92	6,452	7,577
166.41	6,029	4,394	166.93	6,460	7,641
166.42	6,038	4,454	166.94	6,468	7,706
166.43	6,046	4,515	166.95	6,477	7,771
166.44	6,054	4,575	166.96	6,485	7,835
166.45	6,063	4,636	166.97	6,493	7,900
166.46	6,071	4,697	166.98	6,501	7,965
166.47	6,079	4,757	166.99	6,510	8,030
166.48	6,087	4,818	167.00	6,518	8,095
166.49	6,096	4,879	167.01	6,527	8,161
166.50	6,104	4,940	167.02	6,536	8,226
166.51	6,112	5,001	167.03	6,545	8,291
166.52	6,121	5,062	167.04	6,554	8,357
166.53	6,129	5,123	167.05	6,562	8,423
166.54	6,137	5,185	167.06	6,571	8,488
166.55	6,145	5,246	167.07	6,580	8,554
166.56	6,154	5,308	167.08	6,589	8,620
166.57	6,162	5,369	167.09	6,598	8,686
166.58	6,170	5,431	167.10	6,607	8,752
166.59	6,179	5,493	167.11	6,616	8,818
166.60	6,187	5,555	167.12	6,625	8,884
166.61	6,195	5,616	167.13	6,634	8,950
166.62	6,203	5,678	167.14	6,642	9,017
166.63	6,212	5,741	167.15	6,651	9,083
166.64	6,220	5,803	167.16	6,660	9,150
166.65	6,228	5,865	167.17	6,669	9,216
166.66	6,236	5,927	167.18	6,678	9,283
166.67	6,245	5,990	167.19	6,687	9,350
166.68	6,253	6,052	167.20	6,696	9,417
166.69	6,261	6,115	167.21	6,705	9,484
166.70	6,270	6,177	167.22	6,714	9,551
166.71	6,278	6,240	167.23	6,722	9,618
166.72	6,286	6,303	167.24	6,731	9,685
166.73	6,294	6,366	167.25	6,740	9,753
166.74	6,303	6,429	167.26	6,749	9,820
166.75	6,311	6,492	167.27	6,758	9,888
166.76	6,319	6,555	167.28	6,767	9,955
166.77	6,328	6,618	167.29	6,776	10,023
166.78	6,336	6,682	167.30	6,785	10,091
166.79	6,344	6,745	167.31	6,794	10,159
166.80	6,352	6,808	167.32	6,802	10,227
166.81	6,361	6,872	167.33	6,811	10,295
166.82	6,369	6,936	167.34	6,820	10,363
166.83	6,377	6,999	167.35	6,829	10,431
166.84	6,386	7,063	167.36	6,838	10,500
166.85	6,394	7,127	167.37	6,847	10,568

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
167.38	6,856	10,637	167.90	7,318	14,322
167.39	6,865	10,705	167.91	7,327	14,395
167.40	6,874	10,774	167.92	7,336	14,468
167.41	6,882	10,843	167.93	7,345	14,542
167.42	6,891	10,911	167.94	7,354	14,615
167.43	6,900	10,980	167.95	7,363	14,689
167.44	6,909	11,049	167.96	7,371	14,762
167.45	6,918	11,119	167.97	7,380	14,836
167.46	6,927	11,188	167.98	7,389	14,910
167.47	6,936	11,257	167.99	7,398	14,984
167.48	6,945	11,327	168.00	7,407	15,058
167.49	6,954	11,396	168.01	7,417	15,132
167.50	6,963	11,466	168.02	7,426	15,206
167.51	6,971	11,535	168.03	7,436	15,281
167.52	6,980	11,605	168.04	7,445	15,355
167.53	6,989	11,675	168.05	7,455	15,430
167.54	6,998	11,745	168.06	7,464	15,504
167.55	7,007	11,815	168.07	7,474	15,579
167.56	7,016	11,885	168.08	7,483	15,654
167.57	7,025	11,955	168.09	7,493	15,728
167.58	7,034	12,025	168.10	7,502	15,803
167.59	7,043	12,096	168.11	7,512	15,879
167.60	7,051	12,166	168.12	7,521	15,954
167.61	7,060	12,237	168.13	7,531	16,029
167.62	7,069	12,308	168.14	7,540	16,104
167.63	7,078	12,378	168.15	7,550	16,180
167.64	7,087	12,449	168.16	7,559	16,255
167.65	7,096	12,520	168.17	7,569	16,331
167.66	7,105	12,591	168.18	7,579	16,407
167.67	7,114	12,662	168.19	7,588	16,483
167.68	7,123	12,733	168.20	7,598	16,558
167.69	7,131	12,805	168.21	7,607	16,634
167.70	7,140	12,876	168.22	7,617	16,711
167.71	7,149	12,947	168.23	7,626	16,787
167.72	7,158	13,019	168.24	7,636	16,863
167.73	7,167	13,091	168.25	7,645	16,940
167.74	7,176	13,162	168.26	7,655	17,016
167.75	7,185	13,234	168.27	7,664	17,093
167.76	7,194	13,306	168.28	7,674	17,169
167.77	7,203	13,378	168.29	7,683	17,246
167.78	7,211	13,450	168.30	7,693	17,323
167.79	7,220	13,522	168.31	7,702	17,400
167.80	7,229	13,594	168.32	7,712	17,477
167.81	7,238	13,667	168.33	7,721	17,554
167.82	7,247	13,739	168.34	7,731	17,631
167.83	7,256	13,812	168.35	7,741	17,709
167.84	7,265	13,884	168.36	7,750	17,786
167.85	7,274	13,957	168.37	7,760	17,864
167.86	7,283	14,030	168.38	7,769	17,941
167.87	7,291	14,103	168.39	7,779	18,019
167.88	7,300	14,176	168.40	7,788	18,097
167.89	7,309	14,249	168.41	7,798	18,175

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
168.42	7,807	18,253	168.94	8,303	22,442
168.43	7,817	18,331	168.95	8,312	22,525
168.44	7,826	18,409	168.96	8,322	22,608
168.45	7,836	18,488	168.97	8,331	22,691
168.46	7,845	18,566	168.98	8,341	22,774
168.47	7,855	18,645	168.99	8,350	22,858
168.48	7,864	18,723	169.00	8,360	22,941
168.49	7,874	18,802	169.01	8,370	23,025
168.50	7,884	18,881	169.02	8,380	23,109
168.51	7,893	18,960	169.03	8,391	23,193
168.52	7,903	19,038	169.04	8,401	23,277
168.53	7,912	19,118	169.05	8,411	23,361
168.54	7,922	19,197	169.06	8,421	23,445
168.55	7,931	19,276	169.07	8,431	23,529
168.56	7,941	19,355	169.08	8,442	23,614
168.57	7,950	19,435	169.09	8,452	23,698
168.58	7,960	19,514	169.10	8,462	23,783
168.59	7,969	19,594	169.11	8,472	23,867
168.60	7,979	19,674	169.12	8,483	23,952
168.61	7,988	19,754	169.13	8,493	24,037
168.62	7,998	19,834	169.14	8,503	24,122
168.63	8,007	19,914	169.15	8,513	24,207
168.64	8,017	19,994	169.16	8,523	24,292
168.65	8,026	20,074	169.17	8,534	24,377
168.66	8,036	20,154	169.18	8,544	24,463
168.67	8,046	20,235	169.19	8,554	24,548
168.68	8,055	20,315	169.20	8,564	24,634
168.69	8,065	20,396	169.21	8,574	24,720
168.70	8,074	20,476	169.22	8,585	24,805
168.71	8,084	20,557	169.23	8,595	24,891
168.72	8,093	20,638	169.24	8,605	24,977
168.73	8,103	20,719	169.25	8,615	25,063
168.74	8,112	20,800	169.26	8,625	25,150
168.75	8,122	20,881	169.27	8,636	25,236
168.76	8,131	20,963	169.28	8,646	25,322
168.77	8,141	21,044	169.29	8,656	25,409
168.78	8,150	21,125	169.30	8,666	25,495
168.79	8,160	21,207	169.31	8,677	25,582
168.80	8,169	21,289	169.32	8,687	25,669
168.81	8,179	21,370	169.33	8,697	25,756
168.82	8,188	21,452	169.34	8,707	25,843
168.83	8,198	21,534	169.35	8,717	25,930
168.84	8,208	21,616	169.36	8,728	26,017
168.85	8,217	21,698	169.37	8,738	26,105
168.86	8,227	21,780	169.38	8,748	26,192
168.87	8,236	21,863	169.39	8,758	26,280
168.88	8,246	21,945	169.40	8,768	26,367
168.89	8,255	22,028	169.41	8,779	26,455
168.90	8,265	22,110	169.42	8,789	26,543
168.91	8,274	22,193	169.43	8,799	26,631
168.92	8,284	22,276	169.44	8,809	26,719
168.93	8,293	22,359	169.45	8,819	26,807

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.46	8,830	26,895
169.47	8,840	26,983
169.48	8,850	27,072
169.49	8,860	27,160
169.50	8,871	27,249
169.51	8,881	27,338
169.52	8,891	27,427
169.53	8,901	27,516
169.54	8,911	27,605
169.55	8,922	27,694
169.56	8,932	27,783
169.57	8,942	27,873
169.58	8,952	27,962
169.59	8,962	28,052
169.60	8,973	28,141
169.61	8,983	28,231
169.62	8,993	28,321
169.63	9,003	28,411
169.64	9,013	28,501
169.65	9,024	28,591
169.66	9,034	28,681
169.67	9,044	28,772
169.68	9,054	28,862
169.69	9,064	28,953
169.70	9,075	29,044
169.71	9,085	29,134
169.72	9,095	29,225
169.73	9,105	29,316
169.74	9,116	29,407
169.75	9,126	29,499
169.76	9,136	29,590
169.77	9,146	29,681
169.78	9,156	29,773
169.79	9,167	29,865
169.80	9,177	29,956
169.81	9,187	30,048
169.82	9,197	30,140
169.83	9,207	30,232
169.84	9,218	30,324
169.85	9,228	30,416
169.86	9,238	30,509
169.87	9,248	30,601
169.88	9,258	30,694
169.89	9,269	30,786
169.90	9,279	30,879
169.91	9,289	30,972
169.92	9,299	31,065
169.93	9,310	31,158
169.94	9,320	31,251
169.95	9,330	31,344
169.96	9,340	31,438
169.97	9,350	31,531
169.98	9,361	31,625
169.99	9,371	31,718
170.00	**9,381**	**31,812**

Summary for Pond B-45: Basin #45

Inflow Area = 2.294 ac, 62.82% Impervious, Inflow Depth = 2.38" for Current 2 yr event
Inflow = 5.40 cfs @ 12.17 hrs, Volume= 0.455 af
Outflow = 0.46 cfs @ 13.36 hrs, Volume= 0.298 af, Atten= 91%, Lag= 71.2 min
Primary = 0.46 cfs @ 13.36 hrs, Volume= 0.298 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 168.62' @ 13.36 hrs Surf.Area= 5,353 sf Storage= 13,284 cf

Plug-Flow detention time= 584.6 min calculated for 0.297 af (65% of inflow)
Center-of-Mass det. time= 479.0 min (1,258.1 - 779.2)

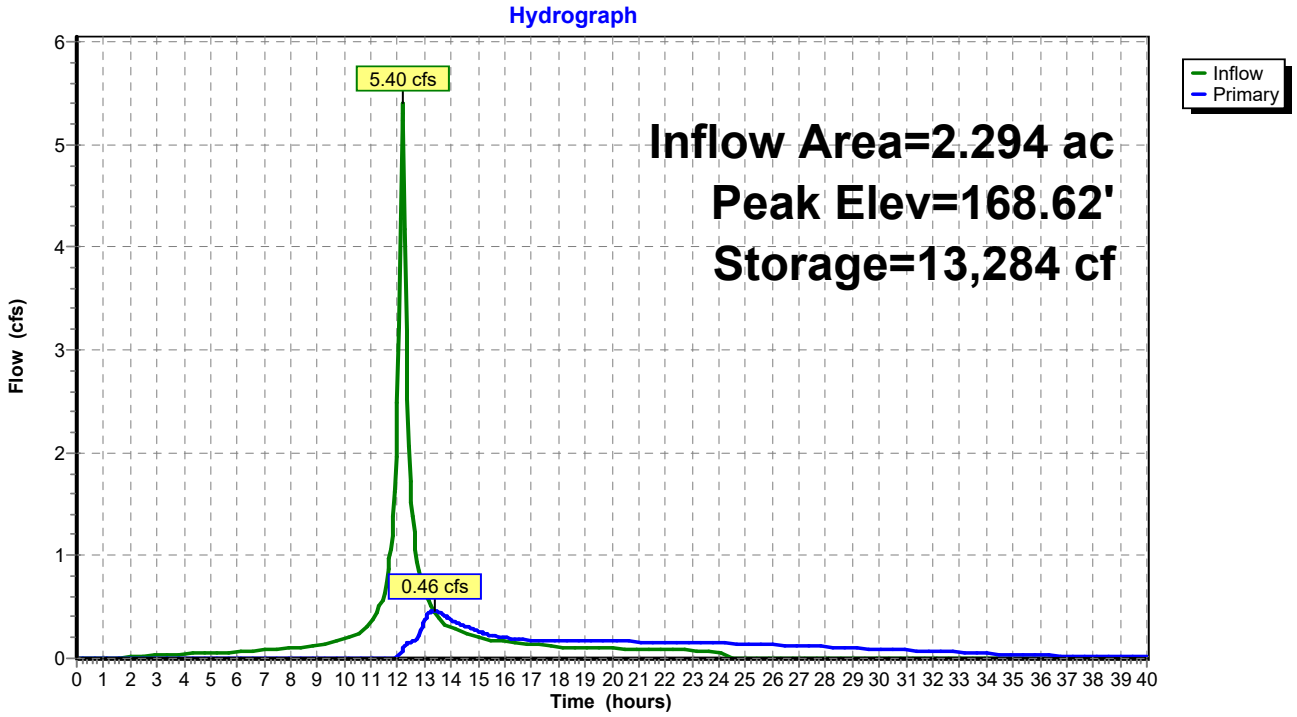
Volume	Invert	Avail.Storage	Storage Description
#1	165.30'	21,270 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
165.30	0	0	0
166.00	3,797	1,329	1,329
167.00	4,370	4,084	5,412
168.00	4,967	4,669	10,081
169.00	5,588	5,278	15,358
170.00	6,235	5,912	21,270

Device	Routing	Invert	Outlet Devices
#1	Primary	165.30'	**18.0" Round Culvert** L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 165.30' / 164.00' S= 0.0325 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	167.25'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	168.50'	**2.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Device 1	169.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#5	Primary	169.97'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.46 cfs @ 13.36 hrs HW=168.62' (Free Discharge)
- **1=Culvert** (Passes 0.46 cfs of 13.64 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.18 cfs @ 5.42 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.27 cfs @ 1.14 fps)
  - **4=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-45: Basin #45



Stage-Discharge for Pond B-45: Basin #45

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
165.30	0.00	165.82	0.00	166.34	0.00	166.86	0.00
165.31	0.00	165.83	0.00	166.35	0.00	166.87	0.00
165.32	0.00	165.84	0.00	166.36	0.00	166.88	0.00
165.33	0.00	165.85	0.00	166.37	0.00	166.89	0.00
165.34	0.00	165.86	0.00	166.38	0.00	166.90	0.00
165.35	0.00	165.87	0.00	166.39	0.00	166.91	0.00
165.36	0.00	165.88	0.00	166.40	0.00	166.92	0.00
165.37	0.00	165.89	0.00	166.41	0.00	166.93	0.00
165.38	0.00	165.90	0.00	166.42	0.00	166.94	0.00
165.39	0.00	165.91	0.00	166.43	0.00	166.95	0.00
165.40	0.00	165.92	0.00	166.44	0.00	166.96	0.00
165.41	0.00	165.93	0.00	166.45	0.00	166.97	0.00
165.42	0.00	165.94	0.00	166.46	0.00	166.98	0.00
165.43	0.00	165.95	0.00	166.47	0.00	166.99	0.00
165.44	0.00	165.96	0.00	166.48	0.00	167.00	0.00
165.45	0.00	165.97	0.00	166.49	0.00	167.01	0.00
165.46	0.00	165.98	0.00	166.50	0.00	167.02	0.00
165.47	0.00	165.99	0.00	166.51	0.00	167.03	0.00
165.48	0.00	166.00	0.00	166.52	0.00	167.04	0.00
165.49	0.00	166.01	0.00	166.53	0.00	167.05	0.00
165.50	0.00	166.02	0.00	166.54	0.00	167.06	0.00
165.51	0.00	166.03	0.00	166.55	0.00	167.07	0.00
165.52	0.00	166.04	0.00	166.56	0.00	167.08	0.00
165.53	0.00	166.05	0.00	166.57	0.00	167.09	0.00
165.54	0.00	166.06	0.00	166.58	0.00	167.10	0.00
165.55	0.00	166.07	0.00	166.59	0.00	167.11	0.00
165.56	0.00	166.08	0.00	166.60	0.00	167.12	0.00
165.57	0.00	166.09	0.00	166.61	0.00	167.13	0.00
165.58	0.00	166.10	0.00	166.62	0.00	167.14	0.00
165.59	0.00	166.11	0.00	166.63	0.00	167.15	0.00
165.60	0.00	166.12	0.00	166.64	0.00	167.16	0.00
165.61	0.00	166.13	0.00	166.65	0.00	167.17	0.00
165.62	0.00	166.14	0.00	166.66	0.00	167.18	0.00
165.63	0.00	166.15	0.00	166.67	0.00	167.19	0.00
165.64	0.00	166.16	0.00	166.68	0.00	167.20	0.00
165.65	0.00	166.17	0.00	166.69	0.00	167.21	0.00
165.66	0.00	166.18	0.00	166.70	0.00	167.22	0.00
165.67	0.00	166.19	0.00	166.71	0.00	167.23	0.00
165.68	0.00	166.20	0.00	166.72	0.00	167.24	0.00
165.69	0.00	166.21	0.00	166.73	0.00	167.25	0.00
165.70	0.00	166.22	0.00	166.74	0.00	167.26	0.00
165.71	0.00	166.23	0.00	166.75	0.00	167.27	0.00
165.72	0.00	166.24	0.00	166.76	0.00	167.28	0.00
165.73	0.00	166.25	0.00	166.77	0.00	167.29	0.00
165.74	0.00	166.26	0.00	166.78	0.00	167.30	0.00
165.75	0.00	166.27	0.00	166.79	0.00	167.31	0.01
165.76	0.00	166.28	0.00	166.80	0.00	167.32	0.01
165.77	0.00	166.29	0.00	166.81	0.00	167.33	0.01
165.78	0.00	166.30	0.00	166.82	0.00	167.34	0.01
165.79	0.00	166.31	0.00	166.83	0.00	167.35	0.02
165.80	0.00	166.32	0.00	166.84	0.00	167.36	0.02
165.81	0.00	166.33	0.00	166.85	0.00	167.37	0.02

Stage-Discharge for Pond B-45: Basin #45 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
167.38	0.03	167.90	0.12	168.42	0.17	168.94	2.03
167.39	0.03	167.91	0.12	168.43	0.17	168.95	2.09
167.40	0.03	167.92	0.12	168.44	0.17	168.96	2.15
167.41	0.04	167.93	0.12	168.45	0.17	168.97	2.22
167.42	0.04	167.94	0.13	168.46	0.17	168.98	2.28
167.43	0.05	167.95	0.13	168.47	0.17	168.99	2.34
167.44	0.05	167.96	0.13	168.48	0.17	169.00	2.41
167.45	0.05	167.97	0.13	168.49	0.17	169.01	2.48
167.46	0.05	167.98	0.13	168.50	0.18	169.02	2.57
167.47	0.06	167.99	0.13	168.51	0.18	169.03	2.67
167.48	0.06	168.00	0.13	168.52	0.20	169.04	2.77
167.49	0.06	168.01	0.13	168.53	0.21	169.05	2.88
167.50	0.06	168.02	0.13	168.54	0.23	169.06	2.99
167.51	0.06	168.03	0.13	168.55	0.25	169.07	3.11
167.52	0.07	168.04	0.14	168.56	0.28	169.08	3.23
167.53	0.07	168.05	0.14	168.57	0.30	169.09	3.36
167.54	0.07	168.06	0.14	168.58	0.33	169.10	3.49
167.55	0.07	168.07	0.14	168.59	0.36	169.11	3.62
167.56	0.07	168.08	0.14	168.60	0.39	169.12	3.75
167.57	0.08	168.09	0.14	168.61	0.42	169.13	3.89
167.58	0.08	168.10	0.14	168.62	0.45	169.14	4.03
167.59	0.08	168.11	0.14	168.63	0.49	169.15	4.18
167.60	0.08	168.12	0.14	168.64	0.52	169.16	4.33
167.61	0.08	168.13	0.14	168.65	0.56	169.17	4.48
167.62	0.08	168.14	0.15	168.66	0.60	169.18	4.63
167.63	0.09	168.15	0.15	168.67	0.64	169.19	4.79
167.64	0.09	168.16	0.15	168.68	0.68	169.20	4.94
167.65	0.09	168.17	0.15	168.69	0.72	169.21	5.10
167.66	0.09	168.18	0.15	168.70	0.76	169.22	5.27
167.67	0.09	168.19	0.15	168.71	0.81	169.23	5.43
167.68	0.09	168.20	0.15	168.72	0.85	169.24	5.60
167.69	0.10	168.21	0.15	168.73	0.90	169.25	5.77
167.70	0.10	168.22	0.15	168.74	0.94	169.26	5.94
167.71	0.10	168.23	0.15	168.75	0.99	169.27	6.12
167.72	0.10	168.24	0.15	168.76	1.04	169.28	6.29
167.73	0.10	168.25	0.16	168.77	1.09	169.29	6.47
167.74	0.10	168.26	0.16	168.78	1.14	169.30	6.65
167.75	0.10	168.27	0.16	168.79	1.19	169.31	6.83
167.76	0.10	168.28	0.16	168.80	1.24	169.32	7.02
167.77	0.11	168.29	0.16	168.81	1.29	169.33	7.20
167.78	0.11	168.30	0.16	168.82	1.34	169.34	7.39
167.79	0.11	168.31	0.16	168.83	1.40	169.35	7.58
167.80	0.11	168.32	0.16	168.84	1.45	169.36	7.77
167.81	0.11	168.33	0.16	168.85	1.51	169.37	7.97
167.82	0.11	168.34	0.16	168.86	1.56	169.38	8.16
167.83	0.11	168.35	0.16	168.87	1.62	169.39	8.36
167.84	0.11	168.36	0.16	168.88	1.68	169.40	8.56
167.85	0.12	168.37	0.17	168.89	1.73	169.41	8.76
167.86	0.12	168.38	0.17	168.90	1.79	169.42	8.96
167.87	0.12	168.39	0.17	168.91	1.85	169.43	9.17
167.88	0.12	168.40	0.17	168.92	1.91	169.44	9.37
167.89	0.12	168.41	0.17	168.93	1.97	169.45	9.58

Stage-Discharge for Pond B-45: Basin #45 (continued)

Elevation (feet)	Primary (cfs)
169.46	9.79
169.47	10.00
169.48	10.21
169.49	10.42
169.50	10.64
169.51	10.85
169.52	11.07
169.53	11.29
169.54	11.51
169.55	11.73
169.56	11.95
169.57	12.18
169.58	12.40
169.59	12.63
169.60	12.86
169.61	13.09
169.62	13.32
169.63	13.55
169.64	13.78
169.65	14.02
169.66	14.25
169.67	14.49
169.68	14.73
169.69	14.97
169.70	15.21
169.71	15.45
169.72	15.69
169.73	15.94
169.74	16.18
169.75	16.37
169.76	16.39
169.77	16.41
169.78	16.43
169.79	16.46
169.80	16.48
169.81	16.50
169.82	16.52
169.83	16.54
169.84	16.56
169.85	16.59
169.86	16.61
169.87	16.63
169.88	16.65
169.89	16.67
169.90	16.70
169.91	16.72
169.92	16.74
169.93	16.76
169.94	16.78
169.95	16.80
169.96	16.82
169.97	16.85
169.98	16.99
169.99	17.22
170.00	**17.52**

Stage-Area-Storage for Pond B-45: Basin #45

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
165.30	0	0	165.82	2,821	733
165.31	54	0	165.83	2,875	762
165.32	108	1	165.84	2,929	791
165.33	163	2	165.85	2,983	820
165.34	217	4	165.86	3,038	851
165.35	271	7	165.87	3,092	881
165.36	325	10	165.88	3,146	912
165.37	380	13	165.89	3,200	944
165.38	434	17	165.90	3,255	976
165.39	488	22	165.91	3,309	1,009
165.40	542	27	165.92	3,363	1,043
165.41	597	33	165.93	3,417	1,076
165.42	651	39	165.94	3,472	1,111
165.43	705	46	165.95	3,526	1,146
165.44	759	53	165.96	3,580	1,181
165.45	814	61	165.97	3,634	1,217
165.46	868	69	165.98	3,689	1,254
165.47	922	78	165.99	3,743	1,291
165.48	976	88	166.00	3,797	1,329
165.49	1,031	98	166.01	3,803	1,367
165.50	1,085	108	166.02	3,808	1,405
165.51	1,139	120	166.03	3,814	1,443
165.52	1,193	131	166.04	3,820	1,481
165.53	1,248	143	166.05	3,826	1,520
165.54	1,302	156	166.06	3,831	1,558
165.55	1,356	170	166.07	3,837	1,596
165.56	1,410	183	166.08	3,843	1,635
165.57	1,465	198	166.09	3,849	1,673
165.58	1,519	213	166.10	3,854	1,712
165.59	1,573	228	166.11	3,860	1,750
165.60	1,627	244	166.12	3,866	1,789
165.61	1,682	261	166.13	3,871	1,827
165.62	1,736	278	166.14	3,877	1,866
165.63	1,790	295	166.15	3,883	1,905
165.64	1,844	314	166.16	3,889	1,944
165.65	1,899	332	166.17	3,894	1,983
165.66	1,953	351	166.18	3,900	2,022
165.67	2,007	371	166.19	3,906	2,061
165.68	2,061	392	166.20	3,912	2,100
165.69	2,115	413	166.21	3,917	2,139
165.70	2,170	434	166.22	3,923	2,178
165.71	2,224	456	166.23	3,929	2,217
165.72	2,278	478	166.24	3,935	2,257
165.73	2,332	501	166.25	3,940	2,296
165.74	2,387	525	166.26	3,946	2,336
165.75	2,441	549	166.27	3,952	2,375
165.76	2,495	574	166.28	3,957	2,415
165.77	2,549	599	166.29	3,963	2,454
165.78	2,604	625	166.30	3,969	2,494
165.79	2,658	651	166.31	3,975	2,534
165.80	2,712	678	166.32	3,980	2,573
165.81	2,766	705	166.33	3,986	2,613

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
166.34	3,992	2,653	166.86	4,290	4,806
166.35	3,998	2,693	166.87	4,296	4,849
166.36	4,003	2,733	166.88	4,301	4,892
166.37	4,009	2,773	166.89	4,307	4,935
166.38	4,015	2,813	166.90	4,313	4,978
166.39	4,020	2,853	166.91	4,318	5,021
166.40	4,026	2,894	166.92	4,324	5,065
166.41	4,032	2,934	166.93	4,330	5,108
166.42	4,038	2,974	166.94	4,336	5,151
166.43	4,043	3,015	166.95	4,341	5,195
166.44	4,049	3,055	166.96	4,347	5,238
166.45	4,055	3,096	166.97	4,353	5,282
166.46	4,061	3,136	166.98	4,359	5,325
166.47	4,066	3,177	166.99	4,364	5,369
166.48	4,072	3,218	167.00	4,370	5,412
166.49	4,078	3,258	167.01	4,376	5,456
166.50	4,084	3,299	167.02	4,382	5,500
166.51	4,089	3,340	167.03	4,388	5,544
166.52	4,095	3,381	167.04	4,394	5,588
166.53	4,101	3,422	167.05	4,400	5,632
166.54	4,106	3,463	167.06	4,406	5,676
166.55	4,112	3,504	167.07	4,412	5,720
166.56	4,118	3,545	167.08	4,418	5,764
166.57	4,124	3,586	167.09	4,424	5,808
166.58	4,129	3,628	167.10	4,430	5,852
166.59	4,135	3,669	167.11	4,436	5,897
166.60	4,141	3,710	167.12	4,442	5,941
166.61	4,147	3,752	167.13	4,448	5,986
166.62	4,152	3,793	167.14	4,454	6,030
166.63	4,158	3,835	167.15	4,460	6,075
166.64	4,164	3,876	167.16	4,466	6,119
166.65	4,169	3,918	167.17	4,471	6,164
166.66	4,175	3,960	167.18	4,477	6,209
166.67	4,181	4,002	167.19	4,483	6,254
166.68	4,187	4,043	167.20	4,489	6,298
166.69	4,192	4,085	167.21	4,495	6,343
166.70	4,198	4,127	167.22	4,501	6,388
166.71	4,204	4,169	167.23	4,507	6,433
166.72	4,210	4,211	167.24	4,513	6,478
166.73	4,215	4,253	167.25	4,519	6,524
166.74	4,221	4,296	167.26	4,525	6,569
166.75	4,227	4,338	167.27	4,531	6,614
166.76	4,232	4,380	167.28	4,537	6,659
166.77	4,238	4,423	167.29	4,543	6,705
166.78	4,244	4,465	167.30	4,549	6,750
166.79	4,250	4,507	167.31	4,555	6,796
166.80	4,255	4,550	167.32	4,561	6,841
166.81	4,261	4,592	167.33	4,567	6,887
166.82	4,267	4,635	167.34	4,573	6,933
166.83	4,273	4,678	167.35	4,579	6,979
166.84	4,278	4,721	167.36	4,585	7,024
166.85	4,284	4,763	167.37	4,591	7,070

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
167.38	4,597	7,116	167.90	4,907	9,587
167.39	4,603	7,162	167.91	4,913	9,636
167.40	4,609	7,208	167.92	4,919	9,686
167.41	4,615	7,254	167.93	4,925	9,735
167.42	4,621	7,301	167.94	4,931	9,784
167.43	4,627	7,347	167.95	4,937	9,833
167.44	4,633	7,393	167.96	4,943	9,883
167.45	4,639	7,439	167.97	4,949	9,932
167.46	4,645	7,486	167.98	4,955	9,982
167.47	4,651	7,532	167.99	4,961	10,031
167.48	4,657	7,579	168.00	4,967	10,081
167.49	4,663	7,625	168.01	4,973	10,131
167.50	4,669	7,672	168.02	4,979	10,180
167.51	4,674	7,719	168.03	4,986	10,230
167.52	4,680	7,766	168.04	4,992	10,280
167.53	4,686	7,812	168.05	4,998	10,330
167.54	4,692	7,859	168.06	5,004	10,380
167.55	4,698	7,906	168.07	5,010	10,430
167.56	4,704	7,953	168.08	5,017	10,480
167.57	4,710	8,000	168.09	5,023	10,530
167.58	4,716	8,047	168.10	5,029	10,581
167.59	4,722	8,095	168.11	5,035	10,631
167.60	4,728	8,142	168.12	5,042	10,681
167.61	4,734	8,189	168.13	5,048	10,732
167.62	4,740	8,237	168.14	5,054	10,782
167.63	4,746	8,284	168.15	5,060	10,833
167.64	4,752	8,332	168.16	5,066	10,884
167.65	4,758	8,379	168.17	5,073	10,934
167.66	4,764	8,427	168.18	5,079	10,985
167.67	4,770	8,474	168.19	5,085	11,036
167.68	4,776	8,522	168.20	5,091	11,087
167.69	4,782	8,570	168.21	5,097	11,138
167.70	4,788	8,618	168.22	5,104	11,189
167.71	4,794	8,666	168.23	5,110	11,240
167.72	4,800	8,714	168.24	5,116	11,291
167.73	4,806	8,762	168.25	5,122	11,342
167.74	4,812	8,810	168.26	5,128	11,393
167.75	4,818	8,858	168.27	5,135	11,445
167.76	4,824	8,906	168.28	5,141	11,496
167.77	4,830	8,954	168.29	5,147	11,547
167.78	4,836	9,003	168.30	5,153	11,599
167.79	4,842	9,051	168.31	5,160	11,651
167.80	4,848	9,099	168.32	5,166	11,702
167.81	4,854	9,148	168.33	5,172	11,754
167.82	4,860	9,197	168.34	5,178	11,806
167.83	4,866	9,245	168.35	5,184	11,857
167.84	4,871	9,294	168.36	5,191	11,909
167.85	4,877	9,343	168.37	5,197	11,961
167.86	4,883	9,391	168.38	5,203	12,013
167.87	4,889	9,440	168.39	5,209	12,065
167.88	4,895	9,489	168.40	5,215	12,117
167.89	4,901	9,538	168.41	5,222	12,170

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
168.42	5,228	12,222	168.94	5,551	15,024
168.43	5,234	12,274	168.95	5,557	15,080
168.44	5,240	12,327	168.96	5,563	15,135
168.45	5,246	12,379	168.97	5,569	15,191
168.46	5,253	12,431	168.98	5,576	15,247
168.47	5,259	12,484	168.99	5,582	15,303
168.48	5,265	12,537	169.00	5,588	15,358
168.49	5,271	12,589	169.01	5,594	15,414
168.50	5,278	12,642	169.02	5,601	15,470
168.51	5,284	12,695	169.03	5,607	15,526
168.52	5,290	12,748	169.04	5,614	15,582
168.53	5,296	12,801	169.05	5,620	15,639
168.54	5,302	12,854	169.06	5,627	15,695
168.55	5,309	12,907	169.07	5,633	15,751
168.56	5,315	12,960	169.08	5,640	15,808
168.57	5,321	13,013	169.09	5,646	15,864
168.58	5,327	13,066	169.10	5,653	15,920
168.59	5,333	13,120	169.11	5,659	15,977
168.60	5,340	13,173	169.12	5,666	16,034
168.61	5,346	13,226	169.13	5,672	16,090
168.62	5,352	13,280	169.14	5,679	16,147
168.63	5,358	13,333	169.15	5,685	16,204
168.64	5,364	13,387	169.16	5,692	16,261
168.65	5,371	13,441	169.17	5,698	16,318
168.66	5,377	13,494	169.18	5,704	16,375
168.67	5,383	13,548	169.19	5,711	16,432
168.68	5,389	13,602	169.20	5,717	16,489
168.69	5,395	13,656	169.21	5,724	16,546
168.70	5,402	13,710	169.22	5,730	16,603
168.71	5,408	13,764	169.23	5,737	16,661
168.72	5,414	13,818	169.24	5,743	16,718
168.73	5,420	13,872	169.25	5,750	16,776
168.74	5,427	13,927	169.26	5,756	16,833
168.75	5,433	13,981	169.27	5,763	16,891
168.76	5,439	14,035	169.28	5,769	16,948
168.77	5,445	14,090	169.29	5,776	17,006
168.78	5,451	14,144	169.30	5,782	17,064
168.79	5,458	14,199	169.31	5,789	17,122
168.80	5,464	14,253	169.32	5,795	17,180
168.81	5,470	14,308	169.33	5,802	17,238
168.82	5,476	14,363	169.34	5,808	17,296
168.83	5,482	14,417	169.35	5,814	17,354
168.84	5,489	14,472	169.36	5,821	17,412
168.85	5,495	14,527	169.37	5,827	17,470
168.86	5,501	14,582	169.38	5,834	17,529
168.87	5,507	14,637	169.39	5,840	17,587
168.88	5,513	14,692	169.40	5,847	17,645
168.89	5,520	14,748	169.41	5,853	17,704
168.90	5,526	14,803	169.42	5,860	17,762
168.91	5,532	14,858	169.43	5,866	17,821
168.92	5,538	14,913	169.44	5,873	17,880
168.93	5,545	14,969	169.45	5,879	17,939

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.46	5,886	17,997
169.47	5,892	18,056
169.48	5,899	18,115
169.49	5,905	18,174
169.50	5,912	18,233
169.51	5,918	18,292
169.52	5,924	18,352
169.53	5,931	18,411
169.54	5,937	18,470
169.55	5,944	18,530
169.56	5,950	18,589
169.57	5,957	18,649
169.58	5,963	18,708
169.59	5,970	18,768
169.60	5,976	18,828
169.61	5,983	18,888
169.62	5,989	18,947
169.63	5,996	19,007
169.64	6,002	19,067
169.65	6,009	19,127
169.66	6,015	19,187
169.67	6,021	19,248
169.68	6,028	19,308
169.69	6,034	19,368
169.70	6,041	19,429
169.71	6,047	19,489
169.72	6,054	19,550
169.73	6,060	19,610
169.74	6,067	19,671
169.75	6,073	19,731
169.76	6,080	19,792
169.77	6,086	19,853
169.78	6,093	19,914
169.79	6,099	19,975
169.80	6,106	20,036
169.81	6,112	20,097
169.82	6,119	20,158
169.83	6,125	20,219
169.84	6,131	20,281
169.85	6,138	20,342
169.86	6,144	20,403
169.87	6,151	20,465
169.88	6,157	20,526
169.89	6,164	20,588
169.90	6,170	20,650
169.91	6,177	20,711
169.92	6,183	20,773
169.93	6,190	20,835
169.94	6,196	20,897
169.95	6,203	20,959
169.96	6,209	21,021
169.97	6,216	21,083
169.98	6,222	21,145
169.99	6,229	21,208
170.00	**6,235**	**21,270**

Summary for Pond B-46A: Basin #46A

Inflow Area = 2.480 ac, 46.25% Impervious, Inflow Depth = 2.05" for Current 2 yr event
Inflow = 5.10 cfs @ 12.17 hrs, Volume= 0.424 af
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Pond B-46B : Basin #46B

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 183.25' @ 24.60 hrs Surf.Area= 10,191 sf Storage= 18,481 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

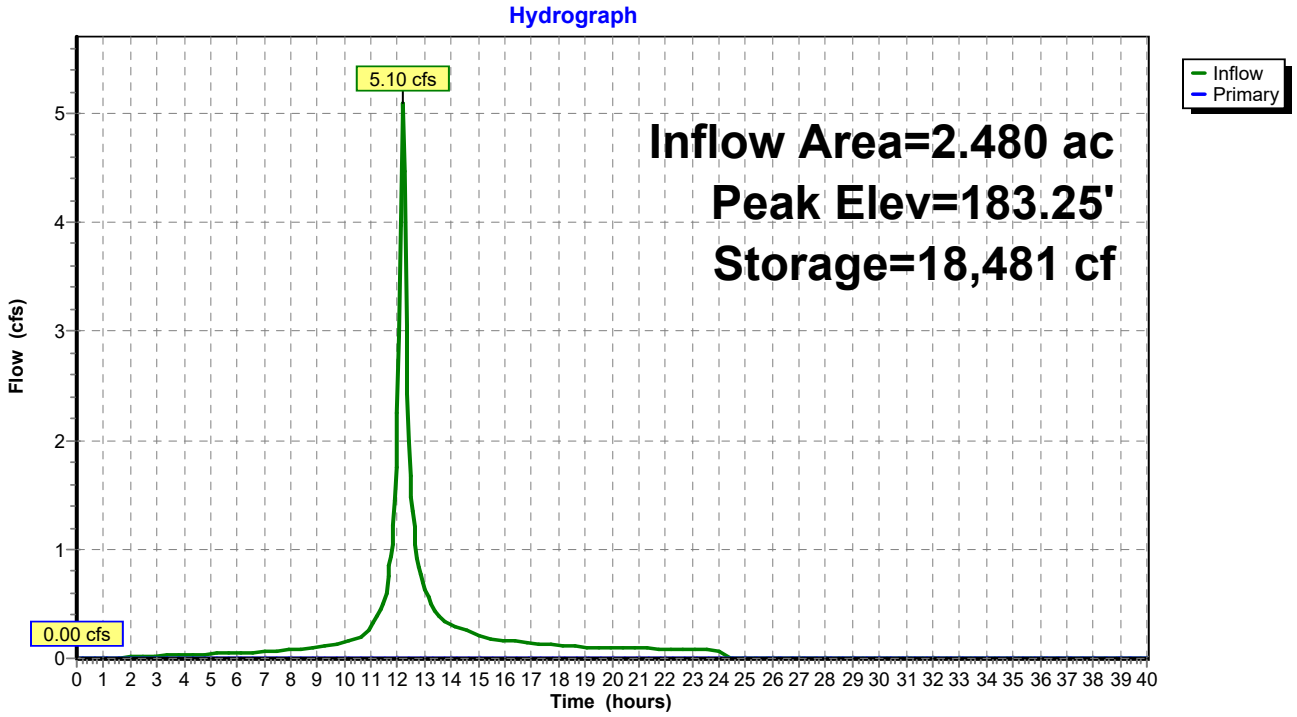
Volume	Invert	Avail.Storage	Storage Description
#1	181.00'	90,351 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
181.00	6,639	0	0
182.00	7,998	7,319	7,319
183.00	9,413	8,706	16,024
184.00	12,515	10,964	26,988
185.00	14,128	13,322	40,310
186.00	15,798	14,963	55,273
187.00	17,524	16,661	71,934
188.00	19,310	18,417	90,351

Device	Routing	Invert	Outlet Devices
#1	Primary	187.50'	**50.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s) 0.5' Crest Height

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=181.00' (Free Discharge)
1=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-46A: Basin #46A



Stage-Discharge for Pond B-46A: Basin #46A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.00	0.00	181.52	0.00	182.04	0.00	182.56	0.00
181.01	0.00	181.53	0.00	182.05	0.00	182.57	0.00
181.02	0.00	181.54	0.00	182.06	0.00	182.58	0.00
181.03	0.00	181.55	0.00	182.07	0.00	182.59	0.00
181.04	0.00	181.56	0.00	182.08	0.00	182.60	0.00
181.05	0.00	181.57	0.00	182.09	0.00	182.61	0.00
181.06	0.00	181.58	0.00	182.10	0.00	182.62	0.00
181.07	0.00	181.59	0.00	182.11	0.00	182.63	0.00
181.08	0.00	181.60	0.00	182.12	0.00	182.64	0.00
181.09	0.00	181.61	0.00	182.13	0.00	182.65	0.00
181.10	0.00	181.62	0.00	182.14	0.00	182.66	0.00
181.11	0.00	181.63	0.00	182.15	0.00	182.67	0.00
181.12	0.00	181.64	0.00	182.16	0.00	182.68	0.00
181.13	0.00	181.65	0.00	182.17	0.00	182.69	0.00
181.14	0.00	181.66	0.00	182.18	0.00	182.70	0.00
181.15	0.00	181.67	0.00	182.19	0.00	182.71	0.00
181.16	0.00	181.68	0.00	182.20	0.00	182.72	0.00
181.17	0.00	181.69	0.00	182.21	0.00	182.73	0.00
181.18	0.00	181.70	0.00	182.22	0.00	182.74	0.00
181.19	0.00	181.71	0.00	182.23	0.00	182.75	0.00
181.20	0.00	181.72	0.00	182.24	0.00	182.76	0.00
181.21	0.00	181.73	0.00	182.25	0.00	182.77	0.00
181.22	0.00	181.74	0.00	182.26	0.00	182.78	0.00
181.23	0.00	181.75	0.00	182.27	0.00	182.79	0.00
181.24	0.00	181.76	0.00	182.28	0.00	182.80	0.00
181.25	0.00	181.77	0.00	182.29	0.00	182.81	0.00
181.26	0.00	181.78	0.00	182.30	0.00	182.82	0.00
181.27	0.00	181.79	0.00	182.31	0.00	182.83	0.00
181.28	0.00	181.80	0.00	182.32	0.00	182.84	0.00
181.29	0.00	181.81	0.00	182.33	0.00	182.85	0.00
181.30	0.00	181.82	0.00	182.34	0.00	182.86	0.00
181.31	0.00	181.83	0.00	182.35	0.00	182.87	0.00
181.32	0.00	181.84	0.00	182.36	0.00	182.88	0.00
181.33	0.00	181.85	0.00	182.37	0.00	182.89	0.00
181.34	0.00	181.86	0.00	182.38	0.00	182.90	0.00
181.35	0.00	181.87	0.00	182.39	0.00	182.91	0.00
181.36	0.00	181.88	0.00	182.40	0.00	182.92	0.00
181.37	0.00	181.89	0.00	182.41	0.00	182.93	0.00
181.38	0.00	181.90	0.00	182.42	0.00	182.94	0.00
181.39	0.00	181.91	0.00	182.43	0.00	182.95	0.00
181.40	0.00	181.92	0.00	182.44	0.00	182.96	0.00
181.41	0.00	181.93	0.00	182.45	0.00	182.97	0.00
181.42	0.00	181.94	0.00	182.46	0.00	182.98	0.00
181.43	0.00	181.95	0.00	182.47	0.00	182.99	0.00
181.44	0.00	181.96	0.00	182.48	0.00	183.00	0.00
181.45	0.00	181.97	0.00	182.49	0.00	183.01	0.00
181.46	0.00	181.98	0.00	182.50	0.00	183.02	0.00
181.47	0.00	181.99	0.00	182.51	0.00	183.03	0.00
181.48	0.00	182.00	0.00	182.52	0.00	183.04	0.00
181.49	0.00	182.01	0.00	182.53	0.00	183.05	0.00
181.50	0.00	182.02	0.00	182.54	0.00	183.06	0.00
181.51	0.00	182.03	0.00	182.55	0.00	183.07	0.00

Stage-Discharge for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.08	0.00	183.60	0.00	184.12	0.00	184.64	0.00
183.09	0.00	183.61	0.00	184.13	0.00	184.65	0.00
183.10	0.00	183.62	0.00	184.14	0.00	184.66	0.00
183.11	0.00	183.63	0.00	184.15	0.00	184.67	0.00
183.12	0.00	183.64	0.00	184.16	0.00	184.68	0.00
183.13	0.00	183.65	0.00	184.17	0.00	184.69	0.00
183.14	0.00	183.66	0.00	184.18	0.00	184.70	0.00
183.15	0.00	183.67	0.00	184.19	0.00	184.71	0.00
183.16	0.00	183.68	0.00	184.20	0.00	184.72	0.00
183.17	0.00	183.69	0.00	184.21	0.00	184.73	0.00
183.18	0.00	183.70	0.00	184.22	0.00	184.74	0.00
183.19	0.00	183.71	0.00	184.23	0.00	184.75	0.00
183.20	0.00	183.72	0.00	184.24	0.00	184.76	0.00
183.21	0.00	183.73	0.00	184.25	0.00	184.77	0.00
183.22	0.00	183.74	0.00	184.26	0.00	184.78	0.00
183.23	0.00	183.75	0.00	184.27	0.00	184.79	0.00
183.24	0.00	183.76	0.00	184.28	0.00	184.80	0.00
183.25	0.00	183.77	0.00	184.29	0.00	184.81	0.00
183.26	0.00	183.78	0.00	184.30	0.00	184.82	0.00
183.27	0.00	183.79	0.00	184.31	0.00	184.83	0.00
183.28	0.00	183.80	0.00	184.32	0.00	184.84	0.00
183.29	0.00	183.81	0.00	184.33	0.00	184.85	0.00
183.30	0.00	183.82	0.00	184.34	0.00	184.86	0.00
183.31	0.00	183.83	0.00	184.35	0.00	184.87	0.00
183.32	0.00	183.84	0.00	184.36	0.00	184.88	0.00
183.33	0.00	183.85	0.00	184.37	0.00	184.89	0.00
183.34	0.00	183.86	0.00	184.38	0.00	184.90	0.00
183.35	0.00	183.87	0.00	184.39	0.00	184.91	0.00
183.36	0.00	183.88	0.00	184.40	0.00	184.92	0.00
183.37	0.00	183.89	0.00	184.41	0.00	184.93	0.00
183.38	0.00	183.90	0.00	184.42	0.00	184.94	0.00
183.39	0.00	183.91	0.00	184.43	0.00	184.95	0.00
183.40	0.00	183.92	0.00	184.44	0.00	184.96	0.00
183.41	0.00	183.93	0.00	184.45	0.00	184.97	0.00
183.42	0.00	183.94	0.00	184.46	0.00	184.98	0.00
183.43	0.00	183.95	0.00	184.47	0.00	184.99	0.00
183.44	0.00	183.96	0.00	184.48	0.00	185.00	0.00
183.45	0.00	183.97	0.00	184.49	0.00	185.01	0.00
183.46	0.00	183.98	0.00	184.50	0.00	185.02	0.00
183.47	0.00	183.99	0.00	184.51	0.00	185.03	0.00
183.48	0.00	184.00	0.00	184.52	0.00	185.04	0.00
183.49	0.00	184.01	0.00	184.53	0.00	185.05	0.00
183.50	0.00	184.02	0.00	184.54	0.00	185.06	0.00
183.51	0.00	184.03	0.00	184.55	0.00	185.07	0.00
183.52	0.00	184.04	0.00	184.56	0.00	185.08	0.00
183.53	0.00	184.05	0.00	184.57	0.00	185.09	0.00
183.54	0.00	184.06	0.00	184.58	0.00	185.10	0.00
183.55	0.00	184.07	0.00	184.59	0.00	185.11	0.00
183.56	0.00	184.08	0.00	184.60	0.00	185.12	0.00
183.57	0.00	184.09	0.00	184.61	0.00	185.13	0.00
183.58	0.00	184.10	0.00	184.62	0.00	185.14	0.00
183.59	0.00	184.11	0.00	184.63	0.00	185.15	0.00

Stage-Discharge for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.16	0.00	185.68	0.00	186.20	0.00	186.72	0.00
185.17	0.00	185.69	0.00	186.21	0.00	186.73	0.00
185.18	0.00	185.70	0.00	186.22	0.00	186.74	0.00
185.19	0.00	185.71	0.00	186.23	0.00	186.75	0.00
185.20	0.00	185.72	0.00	186.24	0.00	186.76	0.00
185.21	0.00	185.73	0.00	186.25	0.00	186.77	0.00
185.22	0.00	185.74	0.00	186.26	0.00	186.78	0.00
185.23	0.00	185.75	0.00	186.27	0.00	186.79	0.00
185.24	0.00	185.76	0.00	186.28	0.00	186.80	0.00
185.25	0.00	185.77	0.00	186.29	0.00	186.81	0.00
185.26	0.00	185.78	0.00	186.30	0.00	186.82	0.00
185.27	0.00	185.79	0.00	186.31	0.00	186.83	0.00
185.28	0.00	185.80	0.00	186.32	0.00	186.84	0.00
185.29	0.00	185.81	0.00	186.33	0.00	186.85	0.00
185.30	0.00	185.82	0.00	186.34	0.00	186.86	0.00
185.31	0.00	185.83	0.00	186.35	0.00	186.87	0.00
185.32	0.00	185.84	0.00	186.36	0.00	186.88	0.00
185.33	0.00	185.85	0.00	186.37	0.00	186.89	0.00
185.34	0.00	185.86	0.00	186.38	0.00	186.90	0.00
185.35	0.00	185.87	0.00	186.39	0.00	186.91	0.00
185.36	0.00	185.88	0.00	186.40	0.00	186.92	0.00
185.37	0.00	185.89	0.00	186.41	0.00	186.93	0.00
185.38	0.00	185.90	0.00	186.42	0.00	186.94	0.00
185.39	0.00	185.91	0.00	186.43	0.00	186.95	0.00
185.40	0.00	185.92	0.00	186.44	0.00	186.96	0.00
185.41	0.00	185.93	0.00	186.45	0.00	186.97	0.00
185.42	0.00	185.94	0.00	186.46	0.00	186.98	0.00
185.43	0.00	185.95	0.00	186.47	0.00	186.99	0.00
185.44	0.00	185.96	0.00	186.48	0.00	187.00	0.00
185.45	0.00	185.97	0.00	186.49	0.00	187.01	0.00
185.46	0.00	185.98	0.00	186.50	0.00	187.02	0.00
185.47	0.00	185.99	0.00	186.51	0.00	187.03	0.00
185.48	0.00	186.00	0.00	186.52	0.00	187.04	0.00
185.49	0.00	186.01	0.00	186.53	0.00	187.05	0.00
185.50	0.00	186.02	0.00	186.54	0.00	187.06	0.00
185.51	0.00	186.03	0.00	186.55	0.00	187.07	0.00
185.52	0.00	186.04	0.00	186.56	0.00	187.08	0.00
185.53	0.00	186.05	0.00	186.57	0.00	187.09	0.00
185.54	0.00	186.06	0.00	186.58	0.00	187.10	0.00
185.55	0.00	186.07	0.00	186.59	0.00	187.11	0.00
185.56	0.00	186.08	0.00	186.60	0.00	187.12	0.00
185.57	0.00	186.09	0.00	186.61	0.00	187.13	0.00
185.58	0.00	186.10	0.00	186.62	0.00	187.14	0.00
185.59	0.00	186.11	0.00	186.63	0.00	187.15	0.00
185.60	0.00	186.12	0.00	186.64	0.00	187.16	0.00
185.61	0.00	186.13	0.00	186.65	0.00	187.17	0.00
185.62	0.00	186.14	0.00	186.66	0.00	187.18	0.00
185.63	0.00	186.15	0.00	186.67	0.00	187.19	0.00
185.64	0.00	186.16	0.00	186.68	0.00	187.20	0.00
185.65	0.00	186.17	0.00	186.69	0.00	187.21	0.00
185.66	0.00	186.18	0.00	186.70	0.00	187.22	0.00
185.67	0.00	186.19	0.00	186.71	0.00	187.23	0.00

Stage-Discharge for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Primary (cfs)
187.24	0.00
187.25	0.00
187.26	0.00
187.27	0.00
187.28	0.00
187.29	0.00
187.30	0.00
187.31	0.00
187.32	0.00
187.33	0.00
187.34	0.00
187.35	0.00
187.36	0.00
187.37	0.00
187.38	0.00
187.39	0.00
187.40	0.00
187.41	0.00
187.42	0.00
187.43	0.00
187.44	0.00
187.45	0.00
187.46	0.00
187.47	0.00
187.48	0.00
187.49	0.00
187.50	0.00
187.51	0.16
187.52	0.46
187.53	0.86
187.54	1.32
187.55	1.85
187.56	2.44
187.57	3.08
187.58	3.77
187.59	4.51
187.60	5.29
187.61	6.12
187.62	6.99
187.63	7.90
187.64	8.85
187.65	9.84
187.66	10.87
187.67	11.93
187.68	13.03
187.69	14.16
187.70	15.33
187.71	16.53
187.72	17.76
187.73	19.03
187.74	20.33
187.75	21.67
187.76	23.03
187.77	24.43
187.78	25.85
187.79	27.31
187.80	28.80
187.81	30.32
187.82	31.87
187.83	33.45
187.84	35.06
187.85	36.70
187.86	38.37
187.87	40.07
187.88	41.80
187.89	43.55
187.90	45.34
187.91	47.15
187.92	48.99
187.93	50.86
187.94	52.76
187.95	54.69
187.96	56.65
187.97	58.63
187.98	60.64
187.99	62.68
188.00	**64.75**

Stage-Area-Storage for Pond B-46A: Basin #46A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.00	6,639	0	181.52	7,346	3,636
181.01	6,653	66	181.53	7,359	3,710
181.02	6,666	133	181.54	7,373	3,783
181.03	6,680	200	181.55	7,386	3,857
181.04	6,693	267	181.56	7,400	3,931
181.05	6,707	334	181.57	7,414	4,005
181.06	6,721	401	181.58	7,427	4,079
181.07	6,734	468	181.59	7,441	4,154
181.08	6,748	535	181.60	7,454	4,228
181.09	6,761	603	181.61	7,468	4,303
181.10	6,775	671	181.62	7,482	4,377
181.11	6,788	739	181.63	7,495	4,452
181.12	6,802	806	181.64	7,509	4,527
181.13	6,816	875	181.65	7,522	4,602
181.14	6,829	943	181.66	7,536	4,678
181.15	6,843	1,011	181.67	7,550	4,753
181.16	6,856	1,080	181.68	7,563	4,829
181.17	6,870	1,148	181.69	7,577	4,904
181.18	6,884	1,217	181.70	7,590	4,980
181.19	6,897	1,286	181.71	7,604	5,056
181.20	6,911	1,355	181.72	7,617	5,132
181.21	6,924	1,424	181.73	7,631	5,209
181.22	6,938	1,493	181.74	7,645	5,285
181.23	6,952	1,563	181.75	7,658	5,361
181.24	6,965	1,632	181.76	7,672	5,438
181.25	6,979	1,702	181.77	7,685	5,515
181.26	6,992	1,772	181.78	7,699	5,592
181.27	7,006	1,842	181.79	7,713	5,669
181.28	7,020	1,912	181.80	7,726	5,746
181.29	7,033	1,982	181.81	7,740	5,823
181.30	7,047	2,053	181.82	7,753	5,901
181.31	7,060	2,123	181.83	7,767	5,978
181.32	7,074	2,194	181.84	7,781	6,056
181.33	7,087	2,265	181.85	7,794	6,134
181.34	7,101	2,336	181.86	7,808	6,212
181.35	7,115	2,407	181.87	7,821	6,290
181.36	7,128	2,478	181.88	7,835	6,369
181.37	7,142	2,549	181.89	7,849	6,447
181.38	7,155	2,621	181.90	7,862	6,525
181.39	7,169	2,693	181.91	7,876	6,604
181.40	7,183	2,764	181.92	7,889	6,683
181.41	7,196	2,836	181.93	7,903	6,762
181.42	7,210	2,908	181.94	7,916	6,841
181.43	7,223	2,980	181.95	7,930	6,920
181.44	7,237	3,053	181.96	7,944	7,000
181.45	7,251	3,125	181.97	7,957	7,079
181.46	7,264	3,198	181.98	7,971	7,159
181.47	7,278	3,270	181.99	7,984	7,239
181.48	7,291	3,343	182.00	7,998	7,319
181.49	7,305	3,416	182.01	8,012	7,399
181.50	7,319	3,489	182.02	8,026	7,479
181.51	7,332	3,563	182.03	8,040	7,559

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.04	8,055	7,640	182.56	8,790	12,019
182.05	8,069	7,720	182.57	8,805	12,107
182.06	8,083	7,801	182.58	8,819	12,195
182.07	8,097	7,882	182.59	8,833	12,284
182.08	8,111	7,963	182.60	8,847	12,372
182.09	8,125	8,044	182.61	8,861	12,461
182.10	8,139	8,125	182.62	8,875	12,549
182.11	8,154	8,207	182.63	8,889	12,638
182.12	8,168	8,288	182.64	8,904	12,727
182.13	8,182	8,370	182.65	8,918	12,816
182.14	8,196	8,452	182.66	8,932	12,905
182.15	8,210	8,534	182.67	8,946	12,995
182.16	8,224	8,616	182.68	8,960	13,084
182.17	8,239	8,699	182.69	8,974	13,174
182.18	8,253	8,781	182.70	8,988	13,264
182.19	8,267	8,864	182.71	9,003	13,354
182.20	8,281	8,946	182.72	9,017	13,444
182.21	8,295	9,029	182.73	9,031	13,534
182.22	8,309	9,112	182.74	9,045	13,624
182.23	8,323	9,195	182.75	9,059	13,715
182.24	8,338	9,279	182.76	9,073	13,806
182.25	8,352	9,362	182.77	9,088	13,896
182.26	8,366	9,446	182.78	9,102	13,987
182.27	8,380	9,530	182.79	9,116	14,078
182.28	8,394	9,613	182.80	9,130	14,170
182.29	8,408	9,697	182.81	9,144	14,261
182.30	8,423	9,782	182.82	9,158	14,353
182.31	8,437	9,866	182.83	9,172	14,444
182.32	8,451	9,950	182.84	9,187	14,536
182.33	8,465	10,035	182.85	9,201	14,628
182.34	8,479	10,120	182.86	9,215	14,720
182.35	8,493	10,204	182.87	9,229	14,812
182.36	8,507	10,289	182.88	9,243	14,905
182.37	8,522	10,375	182.89	9,257	14,997
182.38	8,536	10,460	182.90	9,272	15,090
182.39	8,550	10,545	182.91	9,286	15,183
182.40	8,564	10,631	182.92	9,300	15,275
182.41	8,578	10,717	182.93	9,314	15,369
182.42	8,592	10,802	182.94	9,328	15,462
182.43	8,606	10,888	182.95	9,342	15,555
182.44	8,621	10,975	182.96	9,356	15,649
182.45	8,635	11,061	182.97	9,371	15,742
182.46	8,649	11,147	182.98	9,385	15,836
182.47	8,663	11,234	182.99	9,399	15,930
182.48	8,677	11,321	183.00	9,413	16,024
182.49	8,691	11,407	183.01	9,444	16,118
182.50	8,706	11,494	183.02	9,475	16,213
182.51	8,720	11,582	183.03	9,506	16,308
182.52	8,734	11,669	183.04	9,537	16,403
182.53	8,748	11,756	183.05	9,568	16,499
182.54	8,762	11,844	183.06	9,599	16,594
182.55	8,776	11,931	183.07	9,630	16,691

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.08	9,661	16,787	183.60	11,274	22,230
183.09	9,692	16,884	183.61	11,305	22,343
183.10	9,723	16,981	183.62	11,336	22,456
183.11	9,754	17,078	183.63	11,367	22,570
183.12	9,785	17,176	183.64	11,398	22,684
183.13	9,816	17,274	183.65	11,429	22,798
183.14	9,847	17,372	183.66	11,460	22,912
183.15	9,878	17,471	183.67	11,491	23,027
183.16	9,909	17,570	183.68	11,522	23,142
183.17	9,940	17,669	183.69	11,553	23,257
183.18	9,971	17,769	183.70	11,584	23,373
183.19	10,002	17,868	183.71	11,615	23,489
183.20	10,033	17,969	183.72	11,646	23,605
183.21	10,064	18,069	183.73	11,677	23,722
183.22	10,095	18,170	183.74	11,708	23,839
183.23	10,126	18,271	183.75	11,740	23,956
183.24	10,157	18,372	183.76	11,771	24,074
183.25	10,189	18,474	183.77	11,802	24,192
183.26	10,220	18,576	183.78	11,833	24,310
183.27	10,251	18,679	183.79	11,864	24,428
183.28	10,282	18,781	183.80	11,895	24,547
183.29	10,313	18,884	183.81	11,926	24,666
183.30	10,344	18,987	183.82	11,957	24,786
183.31	10,375	19,091	183.83	11,988	24,905
183.32	10,406	19,195	183.84	12,019	25,025
183.33	10,437	19,299	183.85	12,050	25,146
183.34	10,468	19,404	183.86	12,081	25,266
183.35	10,499	19,509	183.87	12,112	25,387
183.36	10,530	19,614	183.88	12,143	25,509
183.37	10,561	19,719	183.89	12,174	25,630
183.38	10,592	19,825	183.90	12,205	25,752
183.39	10,623	19,931	183.91	12,236	25,874
183.40	10,654	20,037	183.92	12,267	25,997
183.41	10,685	20,144	183.93	12,298	26,120
183.42	10,716	20,251	183.94	12,329	26,243
183.43	10,747	20,358	183.95	12,360	26,366
183.44	10,778	20,466	183.96	12,391	26,490
183.45	10,809	20,574	183.97	12,422	26,614
183.46	10,840	20,682	183.98	12,453	26,738
183.47	10,871	20,791	183.99	12,484	26,863
183.48	10,902	20,900	184.00	12,515	26,988
183.49	10,933	21,009	184.01	12,531	27,113
183.50	10,964	21,118	184.02	12,547	27,239
183.51	10,995	21,228	184.03	12,563	27,364
183.52	11,026	21,338	184.04	12,580	27,490
183.53	11,057	21,449	184.05	12,596	27,616
183.54	11,088	21,559	184.06	12,612	27,742
183.55	11,119	21,670	184.07	12,628	27,868
183.56	11,150	21,782	184.08	12,644	27,994
183.57	11,181	21,893	184.09	12,660	28,121
183.58	11,212	22,005	184.10	12,676	28,248
183.59	11,243	22,118	184.11	12,692	28,374

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.12	12,709	28,501
184.13	12,725	28,629
184.14	12,741	28,756
184.15	12,757	28,883
184.16	12,773	29,011
184.17	12,789	29,139
184.18	12,805	29,267
184.19	12,821	29,395
184.20	12,838	29,523
184.21	12,854	29,652
184.22	12,870	29,780
184.23	12,886	29,909
184.24	12,902	30,038
184.25	12,918	30,167
184.26	12,934	30,296
184.27	12,951	30,426
184.28	12,967	30,555
184.29	12,983	30,685
184.30	12,999	30,815
184.31	13,015	30,945
184.32	13,031	31,075
184.33	13,047	31,206
184.34	13,063	31,336
184.35	13,080	31,467
184.36	13,096	31,598
184.37	13,112	31,729
184.38	13,128	31,860
184.39	13,144	31,992
184.40	13,160	32,123
184.41	13,176	32,255
184.42	13,192	32,387
184.43	13,209	32,519
184.44	13,225	32,651
184.45	13,241	32,783
184.46	13,257	32,916
184.47	13,273	33,048
184.48	13,289	33,181
184.49	13,305	33,314
184.50	13,322	33,447
184.51	13,338	33,580
184.52	13,354	33,714
184.53	13,370	33,847
184.54	13,386	33,981
184.55	13,402	34,115
184.56	13,418	34,249
184.57	13,434	34,384
184.58	13,451	34,518
184.59	13,467	34,653
184.60	13,483	34,787
184.61	13,499	34,922
184.62	13,515	35,057
184.63	13,531	35,193
184.64	13,547	35,328
184.65	13,563	35,463
184.66	13,580	35,599
184.67	13,596	35,735
184.68	13,612	35,871
184.69	13,628	36,007
184.70	13,644	36,144
184.71	13,660	36,280
184.72	13,676	36,417
184.73	13,692	36,554
184.74	13,709	36,691
184.75	13,725	36,828
184.76	13,741	36,965
184.77	13,757	37,103
184.78	13,773	37,240
184.79	13,789	37,378
184.80	13,805	37,516
184.81	13,822	37,654
184.82	13,838	37,793
184.83	13,854	37,931
184.84	13,870	38,070
184.85	13,886	38,208
184.86	13,902	38,347
184.87	13,918	38,486
184.88	13,934	38,626
184.89	13,951	38,765
184.90	13,967	38,905
184.91	13,983	39,045
184.92	13,999	39,184
184.93	14,015	39,324
184.94	14,031	39,465
184.95	14,047	39,605
184.96	14,063	39,746
184.97	14,080	39,886
184.98	14,096	40,027
184.99	14,112	40,168
185.00	14,128	40,310
185.01	14,145	40,451
185.02	14,161	40,592
185.03	14,178	40,734
185.04	14,195	40,876
185.05	14,212	41,018
185.06	14,228	41,160
185.07	14,245	41,303
185.08	14,262	41,445
185.09	14,278	41,588
185.10	14,295	41,731
185.11	14,312	41,874
185.12	14,328	42,017
185.13	14,345	42,160
185.14	14,362	42,304
185.15	14,379	42,447

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.16	14,395	42,591
185.17	14,412	42,735
185.18	14,429	42,880
185.19	14,445	43,024
185.20	14,462	43,168
185.21	14,479	43,313
185.22	14,495	43,458
185.23	14,512	43,603
185.24	14,529	43,748
185.25	14,546	43,894
185.26	14,562	44,039
185.27	14,579	44,185
185.28	14,596	44,331
185.29	14,612	44,477
185.30	14,629	44,623
185.31	14,646	44,769
185.32	14,662	44,916
185.33	14,679	45,063
185.34	14,696	45,210
185.35	14,712	45,357
185.36	14,729	45,504
185.37	14,746	45,651
185.38	14,763	45,799
185.39	14,779	45,946
185.40	14,796	46,094
185.41	14,813	46,242
185.42	14,829	46,391
185.43	14,846	46,539
185.44	14,863	46,687
185.45	14,879	46,836
185.46	14,896	46,985
185.47	14,913	47,134
185.48	14,930	47,283
185.49	14,946	47,433
185.50	14,963	47,582
185.51	14,980	47,732
185.52	14,996	47,882
185.53	15,013	48,032
185.54	15,030	48,182
185.55	15,047	48,332
185.56	15,063	48,483
185.57	15,080	48,634
185.58	15,097	48,785
185.59	15,113	48,936
185.60	15,130	49,087
185.61	15,147	49,238
185.62	15,163	49,390
185.63	15,180	49,542
185.64	15,197	49,693
185.65	15,214	49,845
185.66	15,230	49,998
185.67	15,247	50,150
185.68	15,264	50,303
185.69	15,280	50,455
185.70	15,297	50,608
185.71	15,314	50,761
185.72	15,330	50,915
185.73	15,347	51,068
185.74	15,364	51,221
185.75	15,381	51,375
185.76	15,397	51,529
185.77	15,414	51,683
185.78	15,431	51,837
185.79	15,447	51,992
185.80	15,464	52,146
185.81	15,481	52,301
185.82	15,497	52,456
185.83	15,514	52,611
185.84	15,531	52,766
185.85	15,547	52,922
185.86	15,564	53,077
185.87	15,581	53,233
185.88	15,598	53,389
185.89	15,614	53,545
185.90	15,631	53,701
185.91	15,648	53,857
185.92	15,664	54,014
185.93	15,681	54,171
185.94	15,698	54,328
185.95	15,714	54,485
185.96	15,731	54,642
185.97	15,748	54,799
185.98	15,765	54,957
185.99	15,781	55,115
186.00	15,798	55,273
186.01	15,815	55,431
186.02	15,833	55,589
186.03	15,850	55,747
186.04	15,867	55,906
186.05	15,884	56,065
186.06	15,902	56,223
186.07	15,919	56,383
186.08	15,936	56,542
186.09	15,953	56,701
186.10	15,971	56,861
186.11	15,988	57,021
186.12	16,005	57,181
186.13	16,022	57,341
186.14	16,040	57,501
186.15	16,057	57,662
186.16	16,074	57,822
186.17	16,091	57,983
186.18	16,109	58,144
186.19	16,126	58,305

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.20	16,143	58,467	186.72	17,041	67,094
186.21	16,160	58,628	186.73	17,058	67,265
186.22	16,178	58,790	186.74	17,075	67,436
186.23	16,195	58,952	186.75	17,093	67,606
186.24	16,212	59,114	186.76	17,110	67,777
186.25	16,230	59,276	186.77	17,127	67,949
186.26	16,247	59,438	186.78	17,144	68,120
186.27	16,264	59,601	186.79	17,162	68,292
186.28	16,281	59,764	186.80	17,179	68,463
186.29	16,299	59,926	186.81	17,196	68,635
186.30	16,316	60,090	186.82	17,213	68,807
186.31	16,333	60,253	186.83	17,231	68,979
186.32	16,350	60,416	186.84	17,248	69,152
186.33	16,368	60,580	186.85	17,265	69,324
186.34	16,385	60,744	186.86	17,282	69,497
186.35	16,402	60,908	186.87	17,300	69,670
186.36	16,419	61,072	186.88	17,317	69,843
186.37	16,437	61,236	186.89	17,334	70,016
186.38	16,454	61,400	186.90	17,351	70,190
186.39	16,471	61,565	186.91	17,369	70,363
186.40	16,488	61,730	186.92	17,386	70,537
186.41	16,506	61,895	186.93	17,403	70,711
186.42	16,523	62,060	186.94	17,420	70,885
186.43	16,540	62,225	186.95	17,438	71,059
186.44	16,557	62,391	186.96	17,455	71,234
186.45	16,575	62,556	186.97	17,472	71,409
186.46	16,592	62,722	186.98	17,489	71,583
186.47	16,609	62,888	186.99	17,507	71,758
186.48	16,626	63,054	187.00	17,524	71,934
186.49	16,644	63,221	187.01	17,542	72,109
186.50	16,661	63,387	187.02	17,560	72,284
186.51	16,678	63,554	187.03	17,578	72,460
186.52	16,696	63,721	187.04	17,595	72,636
186.53	16,713	63,888	187.05	17,613	72,812
186.54	16,730	64,055	187.06	17,631	72,988
186.55	16,747	64,222	187.07	17,649	73,165
186.56	16,765	64,390	187.08	17,667	73,341
186.57	16,782	64,558	187.09	17,685	73,518
186.58	16,799	64,726	187.10	17,703	73,695
186.59	16,816	64,894	187.11	17,720	73,872
186.60	16,834	65,062	187.12	17,738	74,049
186.61	16,851	65,230	187.13	17,756	74,227
186.62	16,868	65,399	187.14	17,774	74,404
186.63	16,885	65,568	187.15	17,792	74,582
186.64	16,903	65,737	187.16	17,810	74,760
186.65	16,920	65,906	187.17	17,828	74,938
186.66	16,937	66,075	187.18	17,845	75,117
186.67	16,954	66,245	187.19	17,863	75,295
186.68	16,972	66,414	187.20	17,881	75,474
186.69	16,989	66,584	187.21	17,899	75,653
186.70	17,006	66,754	187.22	17,917	75,832
186.71	17,023	66,924	187.23	17,935	76,011

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.24	17,953	76,191
187.25	17,971	76,370
187.26	17,988	76,550
187.27	18,006	76,730
187.28	18,024	76,910
187.29	18,042	77,091
187.30	18,060	77,271
187.31	18,078	77,452
187.32	18,096	77,633
187.33	18,113	77,814
187.34	18,131	77,995
187.35	18,149	78,176
187.36	18,167	78,358
187.37	18,185	78,540
187.38	18,203	78,722
187.39	18,221	78,904
187.40	18,238	79,086
187.41	18,256	79,268
187.42	18,274	79,451
187.43	18,292	79,634
187.44	18,310	79,817
187.45	18,328	80,000
187.46	18,346	80,183
187.47	18,363	80,367
187.48	18,381	80,551
187.49	18,399	80,735
187.50	18,417	80,919
187.51	18,435	81,103
187.52	18,453	81,287
187.53	18,471	81,472
187.54	18,488	81,657
187.55	18,506	81,842
187.56	18,524	82,027
187.57	18,542	82,212
187.58	18,560	82,398
187.59	18,578	82,584
187.60	18,596	82,769
187.61	18,613	82,955
187.62	18,631	83,142
187.63	18,649	83,328
187.64	18,667	83,515
187.65	18,685	83,701
187.66	18,703	83,888
187.67	18,721	84,075
187.68	18,738	84,263
187.69	18,756	84,450
187.70	18,774	84,638
187.71	18,792	84,826
187.72	18,810	85,014
187.73	18,828	85,202
187.74	18,846	85,390
187.75	18,864	85,579
187.76	18,881	85,768
187.77	18,899	85,956
187.78	18,917	86,146
187.79	18,935	86,335
187.80	18,953	86,524
187.81	18,971	86,714
187.82	18,989	86,904
187.83	19,006	87,094
187.84	19,024	87,284
187.85	19,042	87,474
187.86	19,060	87,665
187.87	19,078	87,855
187.88	19,096	88,046
187.89	19,114	88,237
187.90	19,131	88,428
187.91	19,149	88,620
187.92	19,167	88,811
187.93	19,185	89,003
187.94	19,203	89,195
187.95	19,221	89,387
187.96	19,239	89,580
187.97	19,256	89,772
187.98	19,274	89,965
187.99	19,292	90,157
188.00	**19,310**	**90,351**

Summary for Pond B-46B: Basin #46B

Inflow Area = 2.931 ac, 39.13% Impervious, Inflow Depth = 0.18" for Current 2 yr event
Inflow = 0.74 cfs @ 12.05 hrs, Volume= 0.043 af
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 183.79' @ 24.05 hrs Surf.Area= 7,663 sf Storage= 1,859 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

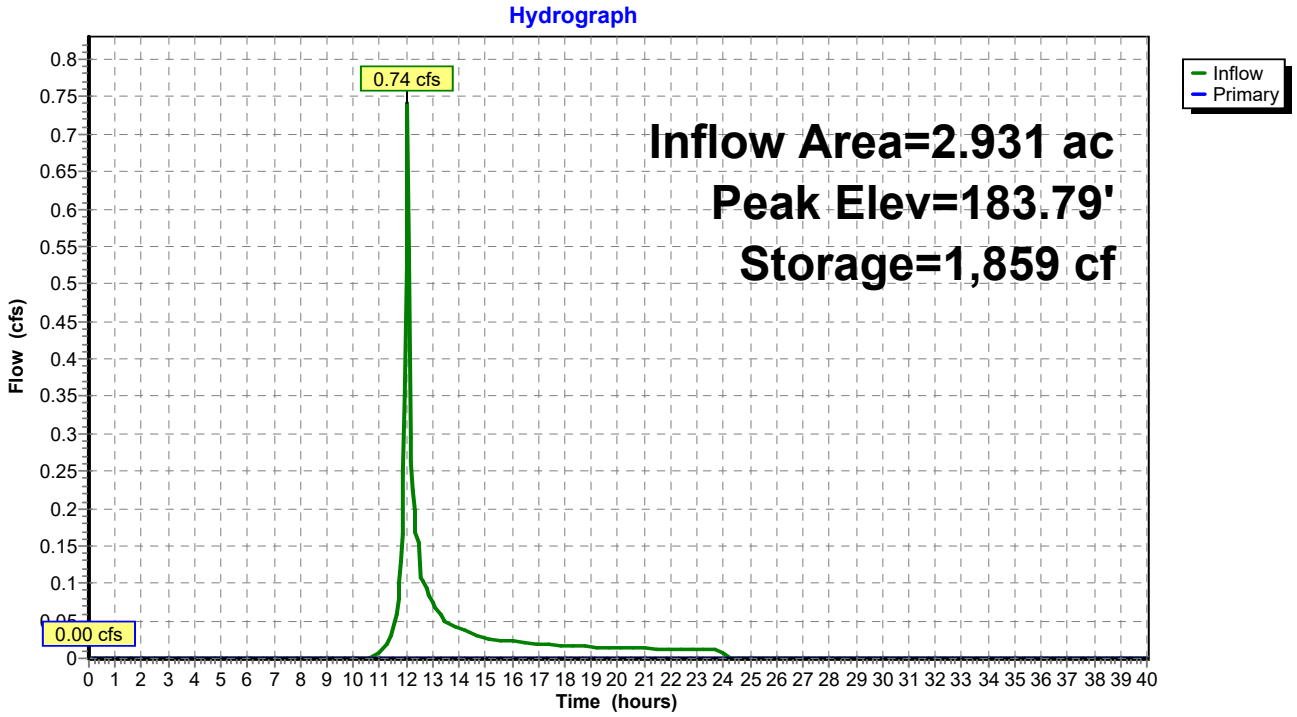
Volume	Invert	Avail.Storage	Storage Description
#1	183.30'	59,250 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
183.30	0	0	0
184.00	11,059	3,871	3,871
185.00	12,402	11,731	15,601
186.00	13,803	13,103	28,704
187.00	15,259	14,531	43,235
188.00	16,772	16,016	59,250

Device	Routing	Invert	Outlet Devices
#1	Primary	182.65'	**18.0" Round Culvert** L= 65.0' Ke= 0.500 Inlet / Outlet Invert= 182.65' / 176.00' S= 0.1023 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	183.82'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.45'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.75'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=183.30' (Free Discharge)
- **1=Culvert** (Passes 0.00 cfs of 2.01 cfs potential flow)
  - **2=Orifice/Grate** (Controls 0.00 cfs)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-46B: Basin #46B



Stage-Discharge for Pond B-46B: Basin #46B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.30	0.00	183.82	0.00	184.34	0.11	184.86	3.52
183.31	0.00	183.83	0.00	184.35	0.11	184.87	3.65
183.32	0.00	183.84	0.00	184.36	0.11	184.88	3.77
183.33	0.00	183.85	0.00	184.37	0.11	184.89	3.89
183.34	0.00	183.86	0.00	184.38	0.11	184.90	4.02
183.35	0.00	183.87	0.00	184.39	0.11	184.91	4.15
183.36	0.00	183.88	0.01	184.40	0.11	184.92	4.28
183.37	0.00	183.89	0.01	184.41	0.11	184.93	4.41
183.38	0.00	183.90	0.01	184.42	0.12	184.94	4.54
183.39	0.00	183.91	0.01	184.43	0.12	184.95	4.68
183.40	0.00	183.92	0.02	184.44	0.12	184.96	4.81
183.41	0.00	183.93	0.02	184.45	0.12	184.97	4.95
183.42	0.00	183.94	0.02	184.46	0.13	184.98	5.08
183.43	0.00	183.95	0.03	184.47	0.16	184.99	5.22
183.44	0.00	183.96	0.03	184.48	0.19	185.00	5.36
183.45	0.00	183.97	0.03	184.49	0.23	185.01	5.50
183.46	0.00	183.98	0.04	184.50	0.27	185.02	5.64
183.47	0.00	183.99	0.04	184.51	0.32	185.03	5.78
183.48	0.00	184.00	0.05	184.52	0.37	185.04	5.93
183.49	0.00	184.01	0.05	184.53	0.42	185.05	6.07
183.50	0.00	184.02	0.05	184.54	0.48	185.06	6.22
183.51	0.00	184.03	0.05	184.55	0.54	185.07	6.36
183.52	0.00	184.04	0.06	184.56	0.61	185.08	6.51
183.53	0.00	184.05	0.06	184.57	0.67	185.09	6.66
183.54	0.00	184.06	0.06	184.58	0.74	185.10	6.81
183.55	0.00	184.07	0.06	184.59	0.81	185.11	6.96
183.56	0.00	184.08	0.06	184.60	0.89	185.12	7.11
183.57	0.00	184.09	0.07	184.61	0.97	185.13	7.27
183.58	0.00	184.10	0.07	184.62	1.05	185.14	7.42
183.59	0.00	184.11	0.07	184.63	1.13	185.15	7.57
183.60	0.00	184.12	0.07	184.64	1.21	185.16	7.73
183.61	0.00	184.13	0.07	184.65	1.30	185.17	7.89
183.62	0.00	184.14	0.08	184.66	1.39	185.18	8.04
183.63	0.00	184.15	0.08	184.67	1.48	185.19	8.20
183.64	0.00	184.16	0.08	184.68	1.57	185.20	8.36
183.65	0.00	184.17	0.08	184.69	1.66	185.21	8.52
183.66	0.00	184.18	0.08	184.70	1.76	185.22	8.68
183.67	0.00	184.19	0.08	184.71	1.86	185.23	8.85
183.68	0.00	184.20	0.09	184.72	1.96	185.24	9.01
183.69	0.00	184.21	0.09	184.73	2.06	185.25	9.17
183.70	0.00	184.22	0.09	184.74	2.16	185.26	9.34
183.71	0.00	184.23	0.09	184.75	2.27	185.27	9.50
183.72	0.00	184.24	0.09	184.76	2.37	185.28	9.67
183.73	0.00	184.25	0.09	184.77	2.48	185.29	9.84
183.74	0.00	184.26	0.10	184.78	2.59	185.30	10.01
183.75	0.00	184.27	0.10	184.79	2.70	185.31	10.18
183.76	0.00	184.28	0.10	184.80	2.81	185.32	10.35
183.77	0.00	184.29	0.10	184.81	2.93	185.33	10.52
183.78	0.00	184.30	0.10	184.82	3.04	185.34	10.69
183.79	0.00	184.31	0.10	184.83	3.16	185.35	10.86
183.80	0.00	184.32	0.10	184.84	3.28	185.36	11.03
183.81	0.00	184.33	0.10	184.85	3.40	185.37	11.21

Stage-Discharge for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.38	11.38	185.90	20.30	186.42	91.01	186.94	198.59
185.39	11.56	185.91	21.03	186.43	92.75	186.95	200.94
185.40	11.74	185.92	21.78	186.44	94.51	186.96	203.32
185.41	11.91	185.93	22.55	186.45	96.28	186.97	205.72
185.42	12.09	185.94	23.34	186.46	98.06	186.98	208.13
185.43	12.12	185.95	24.15	186.47	99.86	186.99	210.55
185.44	12.15	185.96	25.03	186.48	101.66	187.00	212.98
185.45	12.18	185.97	25.92	186.49	103.49	187.01	215.43
185.46	12.21	185.98	26.85	186.50	105.32	187.02	217.88
185.47	12.24	185.99	27.80	186.51	107.16	187.03	220.34
185.48	12.27	186.00	28.77	186.52	109.02	187.04	222.82
185.49	12.30	186.01	29.77	186.53	110.89	187.05	225.30
185.50	12.33	186.02	30.80	186.54	112.77	187.06	227.79
185.51	12.36	186.03	31.85	186.55	114.67	187.07	230.30
185.52	12.39	186.04	32.92	186.56	116.61	187.08	232.82
185.53	12.42	186.05	34.02	186.57	118.57	187.09	235.34
185.54	12.45	186.06	35.14	186.58	120.54	187.10	237.88
185.55	12.48	186.07	36.29	186.59	122.52	187.11	240.42
185.56	12.51	186.08	37.46	186.60	124.52	187.12	242.98
185.57	12.53	186.09	38.66	186.61	126.53	187.13	245.55
185.58	12.56	186.10	39.88	186.62	128.55	187.14	248.13
185.59	12.59	186.11	41.12	186.63	130.58	187.15	250.71
185.60	12.62	186.12	42.39	186.64	132.63	187.16	253.36
185.61	12.65	186.13	43.68	186.65	134.69	187.17	256.01
185.62	12.68	186.14	45.00	186.66	136.77	187.18	258.67
185.63	12.71	186.15	46.34	186.67	138.85	187.19	261.35
185.64	12.73	186.16	47.73	186.68	140.95	187.20	264.04
185.65	12.76	186.17	49.15	186.69	143.07	187.21	266.74
185.66	12.79	186.18	50.59	186.70	145.19	187.22	269.45
185.67	12.82	186.19	52.06	186.71	147.33	187.23	272.17
185.68	12.85	186.20	53.56	186.72	149.48	187.24	274.90
185.69	12.88	186.21	55.08	186.73	151.64	187.25	277.64
185.70	12.90	186.22	56.63	186.74	153.82	187.26	280.39
185.71	12.93	186.23	58.20	186.75	156.01	187.27	283.16
185.72	12.96	186.24	59.80	186.76	158.15	187.28	285.93
185.73	12.99	186.25	61.43	186.77	160.31	187.29	288.72
185.74	13.02	186.26	63.08	186.78	162.48	187.30	291.52
185.75	13.04	186.27	64.76	186.79	164.66	187.31	294.32
185.76	13.19	186.28	66.47	186.80	166.85	187.32	297.14
185.77	13.43	186.29	68.20	186.81	169.05	187.33	299.97
185.78	13.74	186.30	69.96	186.82	171.26	187.34	302.81
185.79	14.09	186.31	71.75	186.83	173.48	187.35	305.67
185.80	14.49	186.32	73.56	186.84	175.71	187.36	308.53
185.81	14.93	186.33	75.40	186.85	177.95	187.37	311.40
185.82	15.41	186.34	77.27	186.86	180.21	187.38	314.29
185.83	15.92	186.35	79.16	186.87	182.47	187.39	317.18
185.84	16.46	186.36	80.82	186.88	184.74	187.40	320.09
185.85	17.04	186.37	82.48	186.89	187.03	187.41	323.00
185.86	17.64	186.38	84.16	186.90	189.32	187.42	325.93
185.87	18.26	186.39	85.85	186.91	191.62	187.43	328.87
185.88	18.92	186.40	87.56	186.92	193.94	187.44	331.82
185.89	19.60	186.41	89.27	186.93	196.26	187.45	334.78

Stage-Discharge for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Primary (cfs)
187.46	337.75
187.47	340.73
187.48	343.72
187.49	346.72
187.50	349.74
187.51	352.76
187.52	355.79
187.53	358.84
187.54	361.90
187.55	364.96
187.56	368.04
187.57	371.13
187.58	374.22
187.59	377.33
187.60	380.45
187.61	383.58
187.62	386.72
187.63	389.87
187.64	393.03
187.65	396.20
187.66	399.38
187.67	402.58
187.68	405.78
187.69	408.99
187.70	412.22
187.71	415.45
187.72	418.69
187.73	421.95
187.74	425.21
187.75	428.49
187.76	431.84
187.77	435.20
187.78	438.57
187.79	441.95
187.80	445.35
187.81	448.75
187.82	452.17
187.83	455.60
187.84	459.04
187.85	462.49
187.86	465.95
187.87	469.42
187.88	472.91
187.89	476.40
187.90	479.91
187.91	483.43
187.92	486.96
187.93	490.50
187.94	494.05
187.95	497.61
187.96	501.19
187.97	504.78
187.98	508.37
187.99	511.98
188.00	**515.60**

Stage-Area-Storage for Pond B-46B: Basin #46B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.30	0	0
183.31	158	1
183.32	316	3
183.33	474	7
183.34	632	13
183.35	790	20
183.36	948	28
183.37	1,106	39
183.38	1,264	51
183.39	1,422	64
183.40	1,580	79
183.41	1,738	96
183.42	1,896	114
183.43	2,054	133
183.44	2,212	155
183.45	2,370	178
183.46	2,528	202
183.47	2,686	228
183.48	2,844	256
183.49	3,002	285
183.50	3,160	316
183.51	3,318	348
183.52	3,476	382
183.53	3,634	418
183.54	3,792	455
183.55	3,950	494
183.56	4,108	534
183.57	4,266	576
183.58	4,424	619
183.59	4,582	664
183.60	4,740	711
183.61	4,898	759
183.62	5,056	809
183.63	5,214	860
183.64	5,372	913
183.65	5,530	968
183.66	5,687	1,024
183.67	5,845	1,081
183.68	6,003	1,141
183.69	6,161	1,201
183.70	6,319	1,264
183.71	6,477	1,328
183.72	6,635	1,393
183.73	6,793	1,461
183.74	6,951	1,529
183.75	7,109	1,600
183.76	7,267	1,671
183.77	7,425	1,745
183.78	7,583	1,820
183.79	7,741	1,897
183.80	7,899	1,975
183.81	8,057	2,055
183.82	8,215	2,136
183.83	8,373	2,219
183.84	8,531	2,303
183.85	8,689	2,390
183.86	8,847	2,477
183.87	9,005	2,566
183.88	9,163	2,657
183.89	9,321	2,750
183.90	9,479	2,844
183.91	9,637	2,939
183.92	9,795	3,036
183.93	9,953	3,135
183.94	10,111	3,236
183.95	10,269	3,337
183.96	10,427	3,441
183.97	10,585	3,546
183.98	10,743	3,653
183.99	10,901	3,761
184.00	11,059	3,871
184.01	11,072	3,981
184.02	11,086	4,092
184.03	11,099	4,203
184.04	11,113	4,314
184.05	11,126	4,425
184.06	11,140	4,537
184.07	11,153	4,648
184.08	11,166	4,760
184.09	11,180	4,871
184.10	11,193	4,983
184.11	11,207	5,095
184.12	11,220	5,207
184.13	11,234	5,320
184.14	11,247	5,432
184.15	11,260	5,545
184.16	11,274	5,657
184.17	11,287	5,770
184.18	11,301	5,883
184.19	11,314	5,996
184.20	11,328	6,109
184.21	11,341	6,223
184.22	11,354	6,336
184.23	11,368	6,450
184.24	11,381	6,563
184.25	11,395	6,677
184.26	11,408	6,791
184.27	11,422	6,906
184.28	11,435	7,020
184.29	11,448	7,134
184.30	11,462	7,249
184.31	11,475	7,363
184.32	11,489	7,478
184.33	11,502	7,593

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.34	11,516	7,708	184.86	12,214	13,878
184.35	11,529	7,824	184.87	12,227	14,000
184.36	11,542	7,939	184.88	12,241	14,123
184.37	11,556	8,054	184.89	12,254	14,245
184.38	11,569	8,170	184.90	12,268	14,368
184.39	11,583	8,286	184.91	12,281	14,490
184.40	11,596	8,402	184.92	12,295	14,613
184.41	11,610	8,518	184.93	12,308	14,736
184.42	11,623	8,634	184.94	12,321	14,859
184.43	11,636	8,750	184.95	12,335	14,983
184.44	11,650	8,867	184.96	12,348	15,106
184.45	11,663	8,983	184.97	12,362	15,230
184.46	11,677	9,100	184.98	12,375	15,353
184.47	11,690	9,217	184.99	12,389	15,477
184.48	11,704	9,334	185.00	12,402	15,601
184.49	11,717	9,451	185.01	12,416	15,725
184.50	11,731	9,568	185.02	12,430	15,849
184.51	11,744	9,685	185.03	12,444	15,974
184.52	11,757	9,803	185.04	12,458	16,098
184.53	11,771	9,921	185.05	12,472	16,223
184.54	11,784	10,038	185.06	12,486	16,348
184.55	11,798	10,156	185.07	12,500	16,473
184.56	11,811	10,274	185.08	12,514	16,598
184.57	11,825	10,392	185.09	12,528	16,723
184.58	11,838	10,511	185.10	12,542	16,848
184.59	11,851	10,629	185.11	12,556	16,974
184.60	11,865	10,748	185.12	12,570	17,099
184.61	11,878	10,867	185.13	12,584	17,225
184.62	11,892	10,985	185.14	12,598	17,351
184.63	11,905	11,104	185.15	12,612	17,477
184.64	11,919	11,223	185.16	12,626	17,603
184.65	11,932	11,343	185.17	12,640	17,730
184.66	11,945	11,462	185.18	12,654	17,856
184.67	11,959	11,582	185.19	12,668	17,983
184.68	11,972	11,701	185.20	12,682	18,110
184.69	11,986	11,821	185.21	12,696	18,236
184.70	11,999	11,941	185.22	12,710	18,363
184.71	12,013	12,061	185.23	12,724	18,491
184.72	12,026	12,181	185.24	12,738	18,618
184.73	12,039	12,302	185.25	12,752	18,745
184.74	12,053	12,422	185.26	12,766	18,873
184.75	12,066	12,543	185.27	12,780	19,001
184.76	12,080	12,663	185.28	12,794	19,129
184.77	12,093	12,784	185.29	12,808	19,257
184.78	12,107	12,905	185.30	12,822	19,385
184.79	12,120	13,026	185.31	12,836	19,513
184.80	12,133	13,148	185.32	12,850	19,642
184.81	12,147	13,269	185.33	12,864	19,770
184.82	12,160	13,391	185.34	12,878	19,899
184.83	12,174	13,512	185.35	12,892	20,028
184.84	12,187	13,634	185.36	12,906	20,157
184.85	12,201	13,756	185.37	12,920	20,286

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.38	12,934	20,415
185.39	12,948	20,544
185.40	12,962	20,674
185.41	12,976	20,804
185.42	12,990	20,934
185.43	13,004	21,064
185.44	13,018	21,194
185.45	13,032	21,324
185.46	13,046	21,454
185.47	13,060	21,585
185.48	13,074	21,716
185.49	13,088	21,846
185.50	13,103	21,977
185.51	13,117	22,108
185.52	13,131	22,240
185.53	13,145	22,371
185.54	13,159	22,502
185.55	13,173	22,634
185.56	13,187	22,766
185.57	13,201	22,898
185.58	13,215	23,030
185.59	13,229	23,162
185.60	13,243	23,295
185.61	13,257	23,427
185.62	13,271	23,560
185.63	13,285	23,692
185.64	13,299	23,825
185.65	13,313	23,958
185.66	13,327	24,092
185.67	13,341	24,225
185.68	13,355	24,358
185.69	13,369	24,492
185.70	13,383	24,626
185.71	13,397	24,760
185.72	13,411	24,894
185.73	13,425	25,028
185.74	13,439	25,162
185.75	13,453	25,297
185.76	13,467	25,431
185.77	13,481	25,566
185.78	13,495	25,701
185.79	13,509	25,836
185.80	13,523	25,971
185.81	13,537	26,106
185.82	13,551	26,242
185.83	13,565	26,377
185.84	13,579	26,513
185.85	13,593	26,649
185.86	13,607	26,785
185.87	13,621	26,921
185.88	13,635	27,057
185.89	13,649	27,194
185.90	13,663	27,330
185.91	13,677	27,467
185.92	13,691	27,604
185.93	13,705	27,741
185.94	13,719	27,878
185.95	13,733	28,015
185.96	13,747	28,153
185.97	13,761	28,290
185.98	13,775	28,428
185.99	13,789	28,566
186.00	13,803	28,704
186.01	13,818	28,842
186.02	13,832	28,980
186.03	13,847	29,118
186.04	13,861	29,257
186.05	13,876	29,396
186.06	13,890	29,534
186.07	13,905	29,673
186.08	13,919	29,813
186.09	13,934	29,952
186.10	13,949	30,091
186.11	13,963	30,231
186.12	13,978	30,370
186.13	13,992	30,510
186.14	14,007	30,650
186.15	14,021	30,790
186.16	14,036	30,931
186.17	14,051	31,071
186.18	14,065	31,212
186.19	14,080	31,353
186.20	14,094	31,493
186.21	14,109	31,634
186.22	14,123	31,776
186.23	14,138	31,917
186.24	14,152	32,058
186.25	14,167	32,200
186.26	14,182	32,342
186.27	14,196	32,484
186.28	14,211	32,626
186.29	14,225	32,768
186.30	14,240	32,910
186.31	14,254	33,053
186.32	14,269	33,195
186.33	14,283	33,338
186.34	14,298	33,481
186.35	14,313	33,624
186.36	14,327	33,767
186.37	14,342	33,910
186.38	14,356	34,054
186.39	14,371	34,198
186.40	14,385	34,341
186.41	14,400	34,485

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.42	14,415	34,629
186.43	14,429	34,774
186.44	14,444	34,918
186.45	14,458	35,062
186.46	14,473	35,207
186.47	14,487	35,352
186.48	14,502	35,497
186.49	14,516	35,642
186.50	14,531	35,787
186.51	14,546	35,933
186.52	14,560	36,078
186.53	14,575	36,224
186.54	14,589	36,370
186.55	14,604	36,516
186.56	14,618	36,662
186.57	14,633	36,808
186.58	14,647	36,954
186.59	14,662	37,101
186.60	14,677	37,248
186.61	14,691	37,394
186.62	14,706	37,541
186.63	14,720	37,688
186.64	14,735	37,836
186.65	14,749	37,983
186.66	14,764	38,131
186.67	14,779	38,278
186.68	14,793	38,426
186.69	14,808	38,574
186.70	14,822	38,722
186.71	14,837	38,871
186.72	14,851	39,019
186.73	14,866	39,168
186.74	14,880	39,317
186.75	14,895	39,465
186.76	14,910	39,614
186.77	14,924	39,764
186.78	14,939	39,913
186.79	14,953	40,062
186.80	14,968	40,212
186.81	14,982	40,362
186.82	14,997	40,512
186.83	15,011	40,662
186.84	15,026	40,812
186.85	15,041	40,962
186.86	15,055	41,113
186.87	15,070	41,263
186.88	15,084	41,414
186.89	15,099	41,565
186.90	15,113	41,716
186.91	15,128	41,867
186.92	15,143	42,019
186.93	15,157	42,170
186.94	15,172	42,322
186.95	15,186	42,474
186.96	15,201	42,625
186.97	15,215	42,778
186.98	15,230	42,930
186.99	15,244	43,082
187.00	15,259	43,235
187.01	15,274	43,387
187.02	15,289	43,540
187.03	15,304	43,693
187.04	15,320	43,846
187.05	15,335	43,999
187.06	15,350	44,153
187.07	15,365	44,306
187.08	15,380	44,460
187.09	15,395	44,614
187.10	15,410	44,768
187.11	15,425	44,922
187.12	15,441	45,077
187.13	15,456	45,231
187.14	15,471	45,386
187.15	15,486	45,541
187.16	15,501	45,695
187.17	15,516	45,851
187.18	15,531	46,006
187.19	15,546	46,161
187.20	15,562	46,317
187.21	15,577	46,472
187.22	15,592	46,628
187.23	15,607	46,784
187.24	15,622	46,940
187.25	15,637	47,097
187.26	15,652	47,253
187.27	15,668	47,410
187.28	15,683	47,566
187.29	15,698	47,723
187.30	15,713	47,880
187.31	15,728	48,038
187.32	15,743	48,195
187.33	15,758	48,353
187.34	15,773	48,510
187.35	15,789	48,668
187.36	15,804	48,826
187.37	15,819	48,984
187.38	15,834	49,142
187.39	15,849	49,301
187.40	15,864	49,459
187.41	15,879	49,618
187.42	15,894	49,777
187.43	15,910	49,936
187.44	15,925	50,095
187.45	15,940	50,254

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.46	15,955	50,414
187.47	15,970	50,573
187.48	15,985	50,733
187.49	16,000	50,893
187.50	16,016	51,053
187.51	16,031	51,214
187.52	16,046	51,374
187.53	16,061	51,534
187.54	16,076	51,695
187.55	16,091	51,856
187.56	16,106	52,017
187.57	16,121	52,178
187.58	16,137	52,339
187.59	16,152	52,501
187.60	16,167	52,662
187.61	16,182	52,824
187.62	16,197	52,986
187.63	16,212	53,148
187.64	16,227	53,310
187.65	16,242	53,473
187.66	16,258	53,635
187.67	16,273	53,798
187.68	16,288	53,961
187.69	16,303	54,124
187.70	16,318	54,287
187.71	16,333	54,450
187.72	16,348	54,613
187.73	16,363	54,777
187.74	16,379	54,941
187.75	16,394	55,104
187.76	16,409	55,268
187.77	16,424	55,433
187.78	16,439	55,597
187.79	16,454	55,761
187.80	16,469	55,926
187.81	16,485	56,091
187.82	16,500	56,256
187.83	16,515	56,421
187.84	16,530	56,586
187.85	16,545	56,751
187.86	16,560	56,917
187.87	16,575	57,083
187.88	16,590	57,248
187.89	16,606	57,414
187.90	16,621	57,581
187.91	16,636	57,747
187.92	16,651	57,913
187.93	16,666	58,080
187.94	16,681	58,247
187.95	16,696	58,413
187.96	16,711	58,580
187.97	16,727	58,748
187.98	16,742	58,915
187.99	16,757	59,083
188.00	**16,772**	**59,250**

Summary for Pond B-47: Basin #47

Inflow Area = 2.436 ac, 30.62% Impervious, Inflow Depth = 1.74" for Current 2 yr event
Inflow = 4.31 cfs @ 12.18 hrs, Volume= 0.354 af
Outflow = 0.09 cfs @ 20.76 hrs, Volume= 0.167 af, Atten= 98%, Lag= 515.0 min
Primary = 0.09 cfs @ 20.76 hrs, Volume= 0.167 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 189.21' @ 20.76 hrs Surf.Area= 21,732 sf Storage= 12,070 cf

Plug-Flow detention time= 839.6 min calculated for 0.167 af (47% of inflow)
Center-of-Mass det. time= 704.7 min (1,513.1 - 808.4)

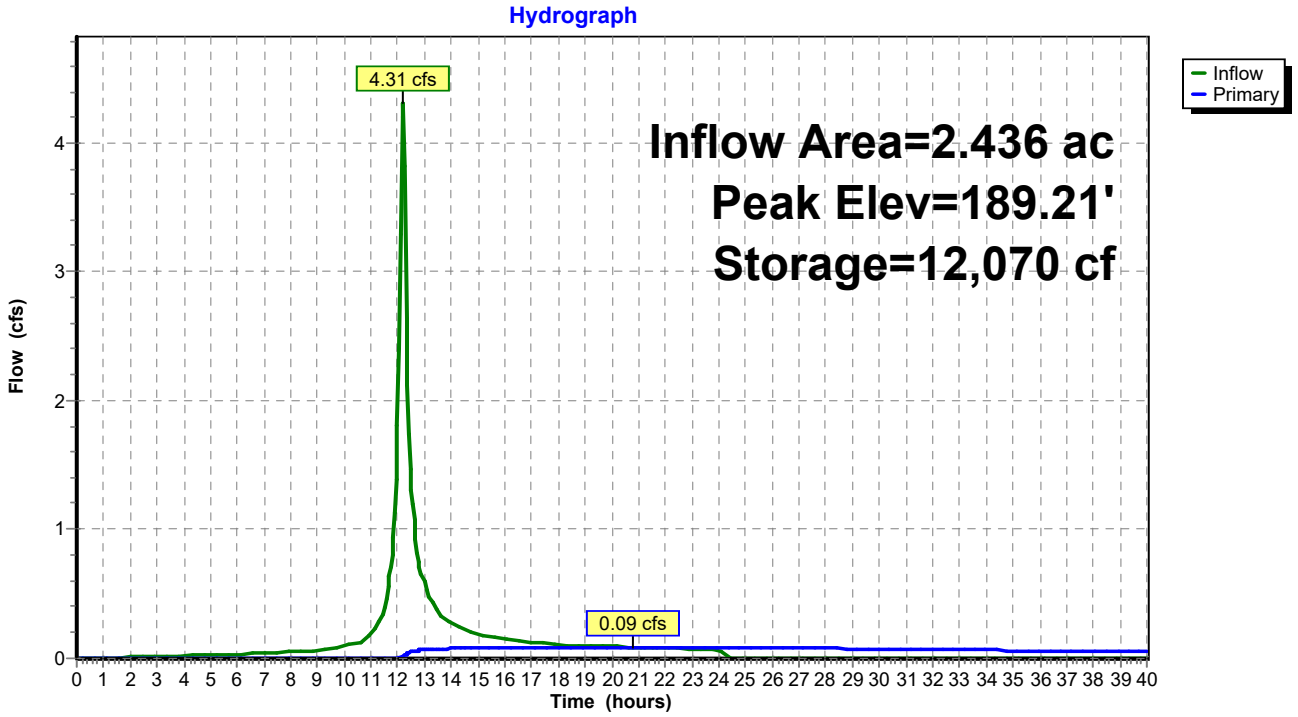
Volume	Invert	Avail.Storage	Storage Description
#1	188.30'	80,305 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
188.30	0	0	0
189.00	21,318	7,461	7,461
190.00	23,252	22,285	29,746
191.00	25,242	24,247	53,993
192.00	27,382	26,312	80,305

Device	Routing	Invert	Outlet Devices
#1	Primary	187.65'	**18.0" Round Culvert** L= 62.0' Ke= 0.500 Inlet / Outlet Invert= 187.65' / 184.00' S= 0.0589 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	188.84'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	189.52'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	190.51'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.09 cfs @ 20.76 hrs HW=189.21' (Free Discharge)
- **1=Culvert** (Passes 0.09 cfs of 7.68 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.09 cfs @ 2.50 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-47: Basin #47



Stage-Discharge for Pond B-47: Basin #47

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
188.30	0.00	188.82	0.00	189.34	0.10	189.86	2.71
188.31	0.00	188.83	0.00	189.35	0.10	189.87	2.82
188.32	0.00	188.84	0.00	189.36	0.11	189.88	2.93
188.33	0.00	188.85	0.00	189.37	0.11	189.89	3.05
188.34	0.00	188.86	0.00	189.38	0.11	189.90	3.17
188.35	0.00	188.87	0.00	189.39	0.11	189.91	3.28
188.36	0.00	188.88	0.00	189.40	0.11	189.92	3.40
188.37	0.00	188.89	0.00	189.41	0.11	189.93	3.53
188.38	0.00	188.90	0.01	189.42	0.11	189.94	3.65
188.39	0.00	188.91	0.01	189.43	0.11	189.95	3.77
188.40	0.00	188.92	0.01	189.44	0.12	189.96	3.90
188.41	0.00	188.93	0.01	189.45	0.12	189.97	4.03
188.42	0.00	188.94	0.02	189.46	0.12	189.98	4.15
188.43	0.00	188.95	0.02	189.47	0.12	189.99	4.28
188.44	0.00	188.96	0.02	189.48	0.12	190.00	4.41
188.45	0.00	188.97	0.03	189.49	0.12	190.01	4.55
188.46	0.00	188.98	0.03	189.50	0.12	190.02	4.68
188.47	0.00	188.99	0.03	189.51	0.12	190.03	4.81
188.48	0.00	189.00	0.04	189.52	0.12	190.04	4.95
188.49	0.00	189.01	0.04	189.53	0.14	190.05	5.09
188.50	0.00	189.02	0.05	189.54	0.16	190.06	5.22
188.51	0.00	189.03	0.05	189.55	0.20	190.07	5.36
188.52	0.00	189.04	0.05	189.56	0.23	190.08	5.50
188.53	0.00	189.05	0.05	189.57	0.28	190.09	5.64
188.54	0.00	189.06	0.06	189.58	0.32	190.10	5.79
188.55	0.00	189.07	0.06	189.59	0.37	190.11	5.93
188.56	0.00	189.08	0.06	189.60	0.43	190.12	6.07
188.57	0.00	189.09	0.06	189.61	0.49	190.13	6.22
188.58	0.00	189.10	0.06	189.62	0.55	190.14	6.37
188.59	0.00	189.11	0.07	189.63	0.61	190.15	6.51
188.60	0.00	189.12	0.07	189.64	0.68	190.16	6.66
188.61	0.00	189.13	0.07	189.65	0.75	190.17	6.81
188.62	0.00	189.14	0.07	189.66	0.82	190.18	6.96
188.63	0.00	189.15	0.07	189.67	0.89	190.19	7.12
188.64	0.00	189.16	0.08	189.68	0.97	190.20	7.27
188.65	0.00	189.17	0.08	189.69	1.05	190.21	7.42
188.66	0.00	189.18	0.08	189.70	1.13	190.22	7.58
188.67	0.00	189.19	0.08	189.71	1.22	190.23	7.73
188.68	0.00	189.20	0.08	189.72	1.30	190.24	7.89
188.69	0.00	189.21	0.08	189.73	1.39	190.25	8.05
188.70	0.00	189.22	0.09	189.74	1.48	190.26	8.21
188.71	0.00	189.23	0.09	189.75	1.57	190.27	8.37
188.72	0.00	189.24	0.09	189.76	1.67	190.28	8.53
188.73	0.00	189.25	0.09	189.77	1.76	190.29	8.69
188.74	0.00	189.26	0.09	189.78	1.86	190.30	8.85
188.75	0.00	189.27	0.09	189.79	1.96	190.31	9.01
188.76	0.00	189.28	0.10	189.80	2.06	190.32	9.18
188.77	0.00	189.29	0.10	189.81	2.17	190.33	9.34
188.78	0.00	189.30	0.10	189.82	2.27	190.34	9.51
188.79	0.00	189.31	0.10	189.83	2.38	190.35	9.67
188.80	0.00	189.32	0.10	189.84	2.49	190.36	9.84
188.81	0.00	189.33	0.10	189.85	2.59	190.37	10.01

Stage-Discharge for Pond B-47: Basin #47 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.38	10.18	190.90	44.37	191.42	136.19	191.94	258.14
190.39	10.35	190.91	45.71	191.43	138.28	191.95	260.82
190.40	10.52	190.92	47.10	191.44	140.38	191.96	263.51
190.41	10.69	190.93	48.52	191.45	142.49	191.97	266.20
190.42	10.86	190.94	49.97	191.46	144.62	191.98	268.91
190.43	11.04	190.95	51.44	191.47	146.76	191.99	271.64
190.44	11.21	190.96	52.93	191.48	148.91	192.00	**274.37**
190.45	11.39	190.97	54.46	191.49	151.07		
190.46	11.56	190.98	56.01	191.50	153.25		
190.47	11.74	190.99	57.58	191.51	155.44		
190.48	11.92	191.00	59.18	191.52	157.59		
190.49	12.09	191.01	60.81	191.53	159.74		
190.50	12.27	191.02	62.47	191.54	161.91		
190.51	12.36	191.03	64.15	191.55	164.09		
190.52	12.51	191.04	65.85	191.56	166.28		
190.53	12.75	191.05	67.59	191.57	168.49		
190.54	13.06	191.06	69.35	191.58	170.70		
190.55	13.41	191.07	71.14	191.59	172.92		
190.56	13.82	191.08	72.95	191.60	175.15		
190.57	14.26	191.09	74.79	191.61	177.39		
190.58	14.74	191.10	76.66	191.62	179.65		
190.59	15.25	191.11	78.56	191.63	181.91		
190.60	15.79	191.12	80.21	191.64	184.18		
190.61	16.37	191.13	81.88	191.65	186.47		
190.62	16.97	191.14	83.55	191.66	188.76		
190.63	17.60	191.15	85.25	191.67	191.07		
190.64	18.25	191.16	86.95	191.68	193.38		
190.65	18.93	191.17	88.67	191.69	195.71		
190.66	19.64	191.18	90.41	191.70	198.04		
190.67	20.37	191.19	92.15	191.71	200.38		
190.68	21.12	191.20	93.91	191.72	202.77		
190.69	21.89	191.21	95.68	191.73	205.17		
190.70	22.68	191.22	97.47	191.74	207.58		
190.71	23.50	191.23	99.26	191.75	210.01		
190.72	24.37	191.24	101.07	191.76	212.44		
190.73	25.27	191.25	102.89	191.77	214.88		
190.74	26.20	191.26	104.73	191.78	217.33		
190.75	27.15	191.27	106.57	191.79	219.80		
190.76	28.12	191.28	108.43	191.80	222.27		
190.77	29.13	191.29	110.30	191.81	224.76		
190.78	30.15	191.30	112.18	191.82	227.25		
190.79	31.20	191.31	114.08	191.83	229.76		
190.80	32.28	191.32	116.02	191.84	232.27		
190.81	33.38	191.33	117.98	191.85	234.80		
190.82	34.50	191.34	119.95	191.86	237.34		
190.83	35.65	191.35	121.94	191.87	239.88		
190.84	36.82	191.36	123.93	191.88	242.44		
190.85	38.02	191.37	125.94	191.89	245.01		
190.86	39.24	191.38	127.97	191.90	247.59		
190.87	40.49	191.39	130.00	191.91	250.18		
190.88	41.76	191.40	132.05	191.92	252.82		
190.89	43.05	191.41	134.12	191.93	255.48		

Stage-Area-Storage for Pond B-47: Basin #47

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
188.30	0	0	188.82	15,836	4,117
188.31	305	2	188.83	16,141	4,277
188.32	609	6	188.84	16,445	4,440
188.33	914	14	188.85	16,750	4,606
188.34	1,218	24	188.86	17,054	4,775
188.35	1,523	38	188.87	17,359	4,947
188.36	1,827	55	188.88	17,663	5,122
188.37	2,132	75	188.89	17,968	5,301
188.38	2,436	97	188.90	18,273	5,482
188.39	2,741	123	188.91	18,577	5,666
188.40	3,045	152	188.92	18,882	5,853
188.41	3,350	184	188.93	19,186	6,044
188.42	3,655	219	188.94	19,491	6,237
188.43	3,959	257	188.95	19,795	6,433
188.44	4,264	298	188.96	20,100	6,633
188.45	4,568	343	188.97	20,404	6,835
188.46	4,873	390	188.98	20,709	7,041
188.47	5,177	440	188.99	21,013	7,250
188.48	5,482	493	189.00	21,318	7,461
188.49	5,786	550	189.01	21,337	7,675
188.50	6,091	609	189.02	21,357	7,888
188.51	6,395	672	189.03	21,376	8,102
188.52	6,700	737	189.04	21,395	8,316
188.53	7,004	806	189.05	21,415	8,530
188.54	7,309	877	189.06	21,434	8,744
188.55	7,614	952	189.07	21,453	8,958
188.56	7,918	1,029	189.08	21,473	9,173
188.57	8,223	1,110	189.09	21,492	9,388
188.58	8,527	1,194	189.10	21,511	9,603
188.59	8,832	1,281	189.11	21,531	9,818
188.60	9,136	1,370	189.12	21,550	10,033
188.61	9,441	1,463	189.13	21,569	10,249
188.62	9,745	1,559	189.14	21,589	10,465
188.63	10,050	1,658	189.15	21,608	10,681
188.64	10,354	1,760	189.16	21,627	10,897
188.65	10,659	1,865	189.17	21,647	11,113
188.66	10,964	1,973	189.18	21,666	11,330
188.67	11,268	2,085	189.19	21,685	11,547
188.68	11,573	2,199	189.20	21,705	11,764
188.69	11,877	2,316	189.21	21,724	11,981
188.70	12,182	2,436	189.22	21,743	12,198
188.71	12,486	2,560	189.23	21,763	12,416
188.72	12,791	2,686	189.24	21,782	12,633
188.73	13,095	2,815	189.25	21,802	12,851
188.74	13,400	2,948	189.26	21,821	13,069
188.75	13,704	3,083	189.27	21,840	13,288
188.76	14,009	3,222	189.28	21,860	13,506
188.77	14,314	3,364	189.29	21,879	13,725
188.78	14,618	3,508	189.30	21,898	13,944
188.79	14,923	3,656	189.31	21,918	14,163
188.80	15,227	3,807	189.32	21,937	14,382
188.81	15,532	3,961	189.33	21,956	14,602

Stage-Area-Storage for Pond B-47: Basin #47 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
189.34	21,976	14,821	189.86	22,981	26,510
189.35	21,995	15,041	189.87	23,001	26,740
189.36	22,014	15,261	189.88	23,020	26,970
189.37	22,034	15,481	189.89	23,039	27,200
189.38	22,053	15,702	189.90	23,059	27,431
189.39	22,072	15,922	189.91	23,078	27,661
189.40	22,092	16,143	189.92	23,097	27,892
189.41	22,111	16,364	189.93	23,117	28,123
189.42	22,130	16,585	189.94	23,136	28,355
189.43	22,150	16,807	189.95	23,155	28,586
189.44	22,169	17,028	189.96	23,175	28,818
189.45	22,188	17,250	189.97	23,194	29,050
189.46	22,208	17,472	189.98	23,213	29,282
189.47	22,227	17,694	189.99	23,233	29,514
189.48	22,246	17,917	190.00	23,252	29,746
189.49	22,266	18,139	190.01	23,272	29,979
189.50	22,285	18,362	190.02	23,292	30,212
189.51	22,304	18,585	190.03	23,312	30,445
189.52	22,324	18,808	190.04	23,332	30,678
189.53	22,343	19,031	190.05	23,352	30,911
189.54	22,362	19,255	190.06	23,371	31,145
189.55	22,382	19,479	190.07	23,391	31,379
189.56	22,401	19,703	190.08	23,411	31,613
189.57	22,420	19,927	190.09	23,431	31,847
189.58	22,440	20,151	190.10	23,451	32,081
189.59	22,459	20,376	190.11	23,471	32,316
189.60	22,478	20,600	190.12	23,491	32,551
189.61	22,498	20,825	190.13	23,511	32,786
189.62	22,517	21,050	190.14	23,531	33,021
189.63	22,536	21,275	190.15	23,551	33,256
189.64	22,556	21,501	190.16	23,570	33,492
189.65	22,575	21,727	190.17	23,590	33,728
189.66	22,594	21,952	190.18	23,610	33,964
189.67	22,614	22,178	190.19	23,630	34,200
189.68	22,633	22,405	190.20	23,650	34,437
189.69	22,652	22,631	190.21	23,670	34,673
189.70	22,672	22,858	190.22	23,690	34,910
189.71	22,691	23,085	190.23	23,710	35,147
189.72	22,710	23,312	190.24	23,730	35,384
189.73	22,730	23,539	190.25	23,750	35,621
189.74	22,749	23,766	190.26	23,769	35,859
189.75	22,769	23,994	190.27	23,789	36,097
189.76	22,788	24,222	190.28	23,809	36,335
189.77	22,807	24,449	190.29	23,829	36,573
189.78	22,827	24,678	190.30	23,849	36,811
189.79	22,846	24,906	190.31	23,869	37,050
189.80	22,865	25,135	190.32	23,889	37,289
189.81	22,885	25,363	190.33	23,909	37,528
189.82	22,904	25,592	190.34	23,929	37,767
189.83	22,923	25,821	190.35	23,949	38,006
189.84	22,943	26,051	190.36	23,968	38,246
189.85	22,962	26,280	190.37	23,988	38,486

Stage-Area-Storage for Pond B-47: Basin #47 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.38	24,008	38,726
190.39	24,028	38,966
190.40	24,048	39,206
190.41	24,068	39,447
190.42	24,088	39,688
190.43	24,108	39,929
190.44	24,128	40,170
190.45	24,148	40,411
190.46	24,167	40,653
190.47	24,187	40,895
190.48	24,207	41,137
190.49	24,227	41,379
190.50	24,247	41,621
190.51	24,267	41,864
190.52	24,287	42,106
190.53	24,307	42,349
190.54	24,327	42,593
190.55	24,347	42,836
190.56	24,366	43,079
190.57	24,386	43,323
190.58	24,406	43,567
190.59	24,426	43,811
190.60	24,446	44,056
190.61	24,466	44,300
190.62	24,486	44,545
190.63	24,506	44,790
190.64	24,526	45,035
190.65	24,546	45,280
190.66	24,565	45,526
190.67	24,585	45,772
190.68	24,605	46,018
190.69	24,625	46,264
190.70	24,645	46,510
190.71	24,665	46,757
190.72	24,685	47,004
190.73	24,705	47,250
190.74	24,725	47,498
190.75	24,745	47,745
190.76	24,764	47,993
190.77	24,784	48,240
190.78	24,804	48,488
190.79	24,824	48,736
190.80	24,844	48,985
190.81	24,864	49,233
190.82	24,884	49,482
190.83	24,904	49,731
190.84	24,924	49,980
190.85	24,944	50,229
190.86	24,963	50,479
190.87	24,983	50,729
190.88	25,003	50,979
190.89	25,023	51,229
190.90	25,043	51,479
190.91	25,063	51,730
190.92	25,083	51,980
190.93	25,103	52,231
190.94	25,123	52,482
190.95	25,143	52,734
190.96	25,162	52,985
190.97	25,182	53,237
190.98	25,202	53,489
190.99	25,222	53,741
191.00	25,242	53,993
191.01	25,263	54,246
191.02	25,285	54,499
191.03	25,306	54,752
191.04	25,328	55,005
191.05	25,349	55,258
191.06	25,370	55,512
191.07	25,392	55,765
191.08	25,413	56,020
191.09	25,435	56,274
191.10	25,456	56,528
191.11	25,477	56,783
191.12	25,499	57,038
191.13	25,520	57,293
191.14	25,542	57,548
191.15	25,563	57,804
191.16	25,584	58,059
191.17	25,606	58,315
191.18	25,627	58,572
191.19	25,649	58,828
191.20	25,670	59,085
191.21	25,691	59,341
191.22	25,713	59,598
191.23	25,734	59,856
191.24	25,756	60,113
191.25	25,777	60,371
191.26	25,798	60,629
191.27	25,820	60,887
191.28	25,841	61,145
191.29	25,863	61,403
191.30	25,884	61,662
191.31	25,905	61,921
191.32	25,927	62,180
191.33	25,948	62,440
191.34	25,970	62,699
191.35	25,991	62,959
191.36	26,012	63,219
191.37	26,034	63,479
191.38	26,055	63,740
191.39	26,077	64,000
191.40	26,098	64,261
191.41	26,119	64,522

Stage-Area-Storage for Pond B-47: Basin #47 (continued)

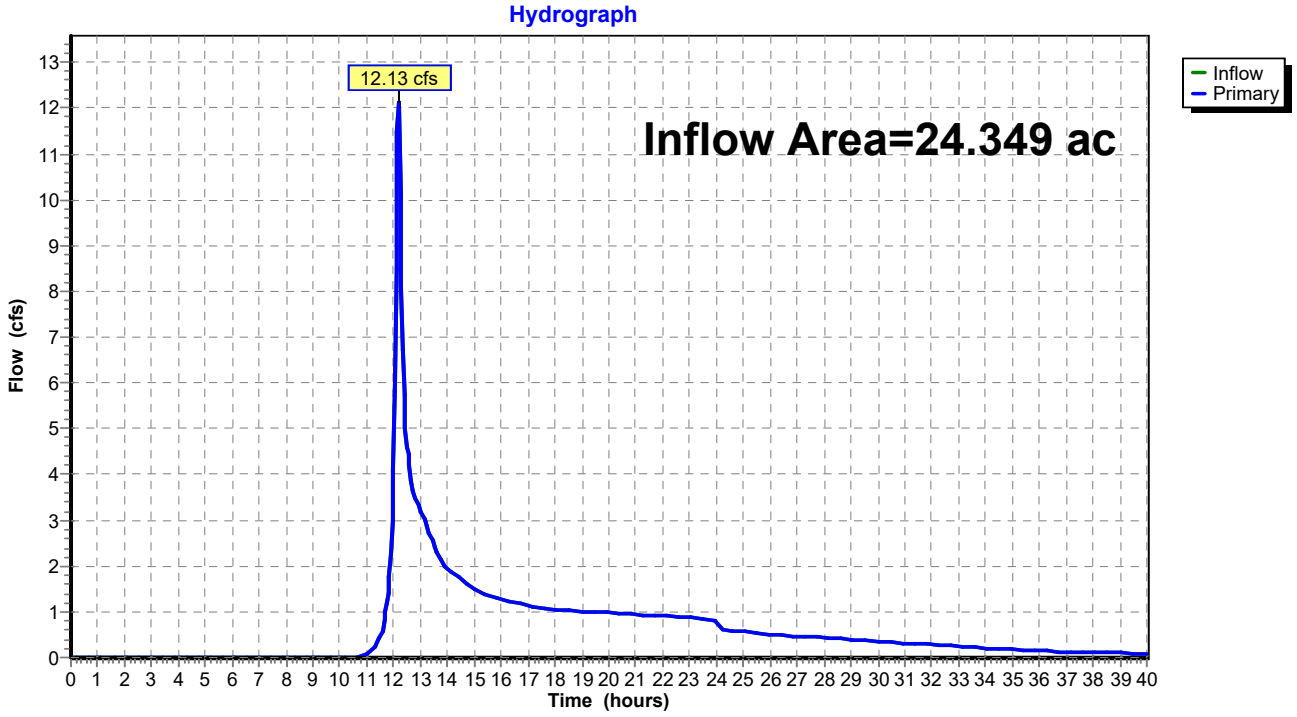
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.42	26,141	64,784
191.43	26,162	65,045
191.44	26,184	65,307
191.45	26,205	65,569
191.46	26,226	65,831
191.47	26,248	66,093
191.48	26,269	66,356
191.49	26,291	66,619
191.50	26,312	66,882
191.51	26,333	67,145
191.52	26,355	67,408
191.53	26,376	67,672
191.54	26,398	67,936
191.55	26,419	68,200
191.56	26,440	68,464
191.57	26,462	68,729
191.58	26,483	68,994
191.59	26,505	69,259
191.60	26,526	69,524
191.61	26,547	69,789
191.62	26,569	70,055
191.63	26,590	70,320
191.64	26,612	70,586
191.65	26,633	70,853
191.66	26,654	71,119
191.67	26,676	71,386
191.68	26,697	71,653
191.69	26,719	71,920
191.70	26,740	72,187
191.71	26,761	72,455
191.72	26,783	72,722
191.73	26,804	72,990
191.74	26,826	73,258
191.75	26,847	73,527
191.76	26,868	73,795
191.77	26,890	74,064
191.78	26,911	74,333
191.79	26,933	74,602
191.80	26,954	74,872
191.81	26,975	75,141
191.82	26,997	75,411
191.83	27,018	75,681
191.84	27,040	75,952
191.85	27,061	76,222
191.86	27,082	76,493
191.87	27,104	76,764
191.88	27,125	77,035
191.89	27,147	77,306
191.90	27,168	77,578
191.91	27,189	77,850
191.92	27,211	78,122
191.93	27,232	78,394
191.94	27,254	78,666
191.95	27,275	78,939
191.96	27,296	79,212
191.97	27,318	79,485
191.98	27,339	79,758
191.99	27,361	80,032
192.00	**27,382**	**80,305**

Summary for Link PDA-4: Proposed Drainage Area #4

Inflow Area = 24.349 ac, 23.20% Impervious, Inflow Depth > 1.02" for Current 2 yr event
Inflow = 12.13 cfs @ 12.19 hrs, Volume= 2.061 af
Primary = 12.13 cfs @ 12.19 hrs, Volume= 2.061 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-4: Proposed Drainage Area #4



Summary for Subcatchment 41I: PDA-41 (impervious)

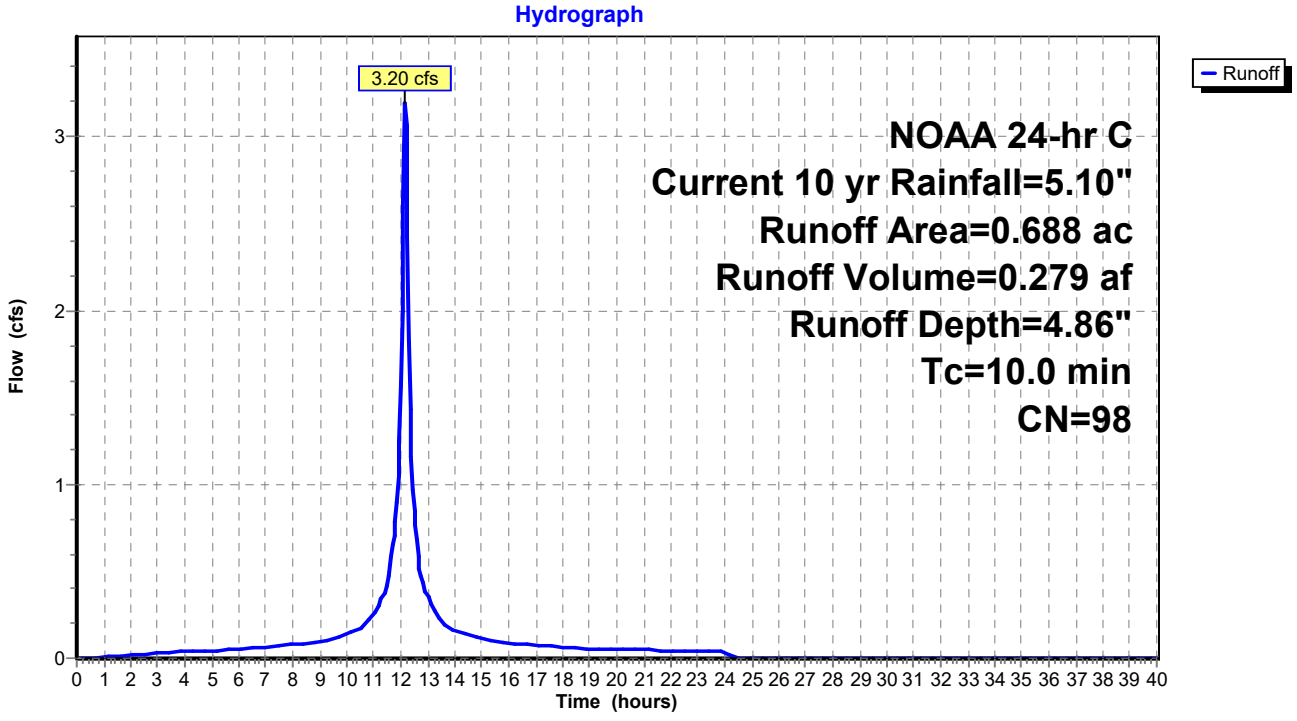
Runoff = 3.20 cfs @ 12.17 hrs, Volume= 0.279 af, Depth= 4.86"
Routed to Pond B-41 : Basin #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

	Area (ac)	CN	Description
*	0.136	98	Pavement, HSG C
*	0.514	98	Roof, HSG C
*	0.038	98	Concrete, HSC C
	0.688	98	Weighted Average
	0.688		100.00% Impervious Area

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

Subcatchment 41I: PDA-41 (impervious)



Summary for Subcatchment 41P: PDA-41 (pervious)

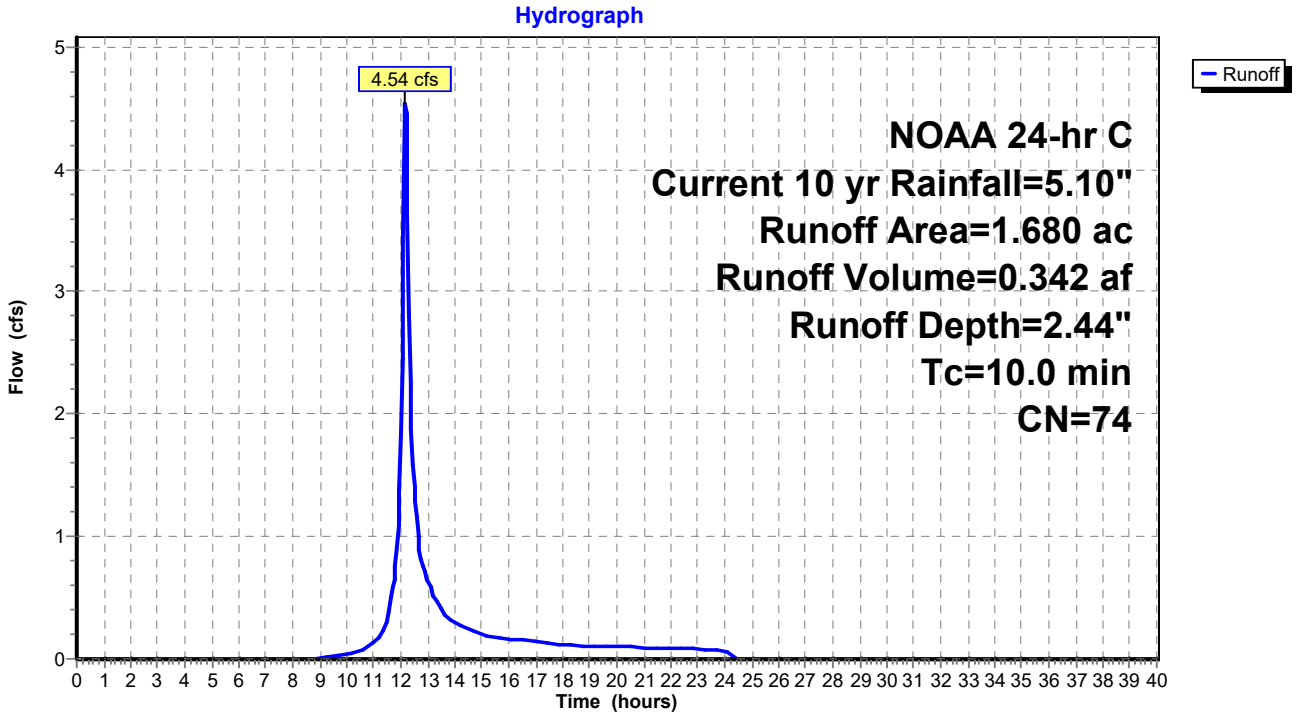
Runoff = 4.54 cfs @ 12.18 hrs, Volume= 0.342 af, Depth= 2.44"
Routed to Pond B-41 : Basin #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.680	74	>75% Grass cover, Good, HSG C
1.680		100.00% Pervious Area

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

Subcatchment 41P: PDA-41 (pervious)



Summary for Subcatchment 42I: PDA-42 (impervious)

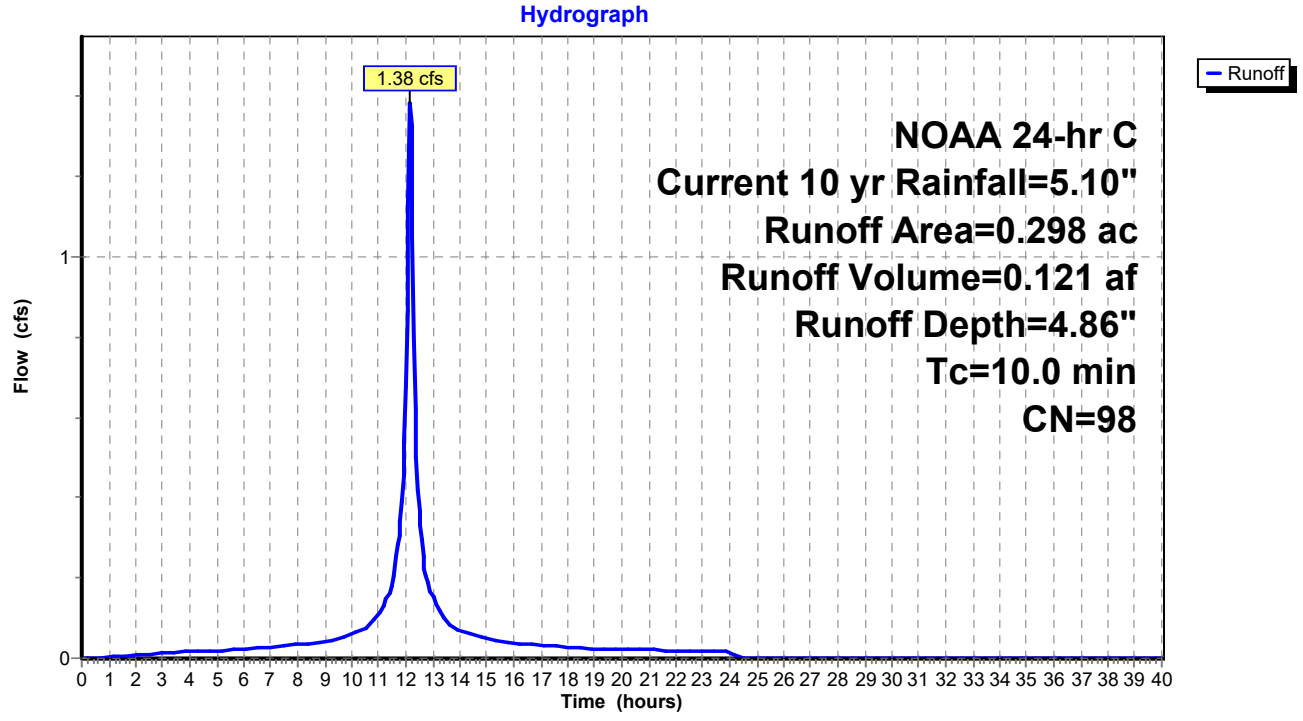
Runoff = 1.38 cfs @ 12.17 hrs, Volume= 0.121 af, Depth= 4.86"
Routed to Pond B-42 : Basin #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

	Area (ac)	CN	Description
*	0.000	98	Pavement, HSG C
*	0.298	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.298	98	Weighted Average
	0.298		100.00% Impervious Area

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

Subcatchment 42I: PDA-42 (impervious)



Summary for Subcatchment 42P: PDA-42 (pervious)

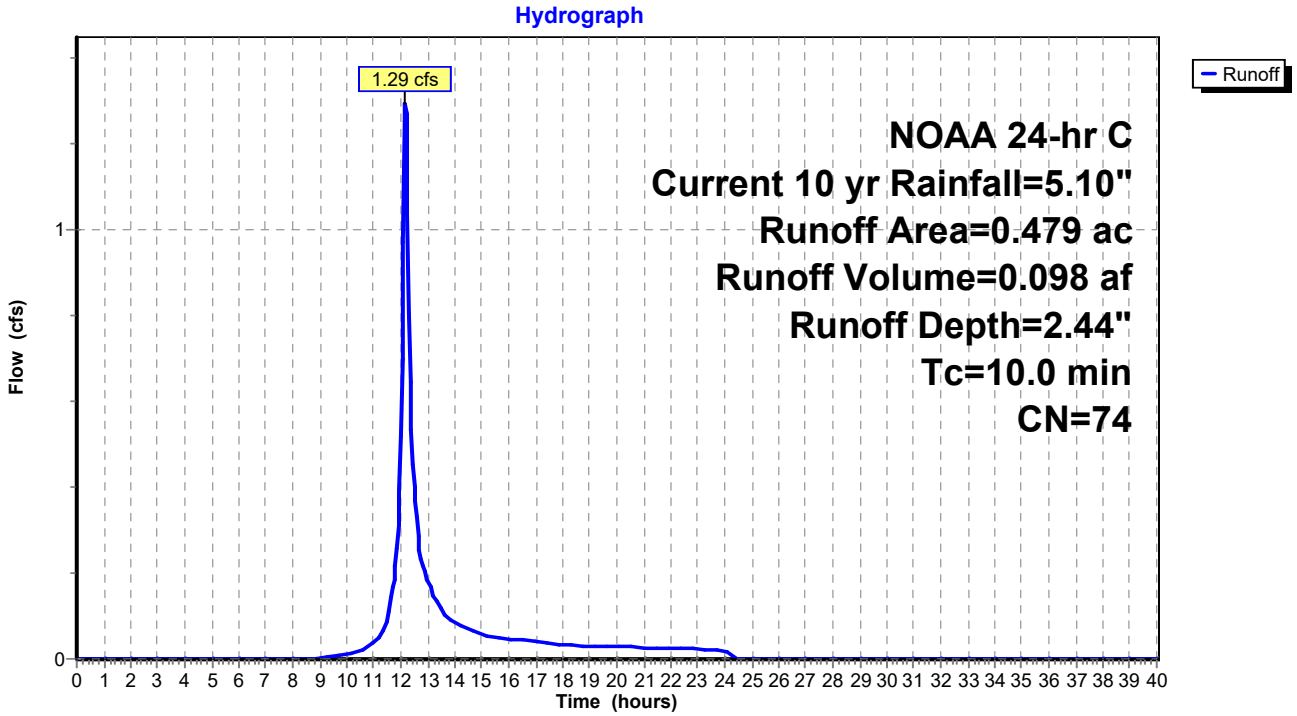
Runoff = 1.29 cfs @ 12.18 hrs, Volume= 0.098 af, Depth= 2.44"
Routed to Pond B-42 : Basin #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.479	74	>75% Grass cover, Good, HSG C
0.479		100.00% Pervious Area

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

Subcatchment 42P: PDA-42 (pervious)



Summary for Subcatchment 43I: PDA-43 (impervious)

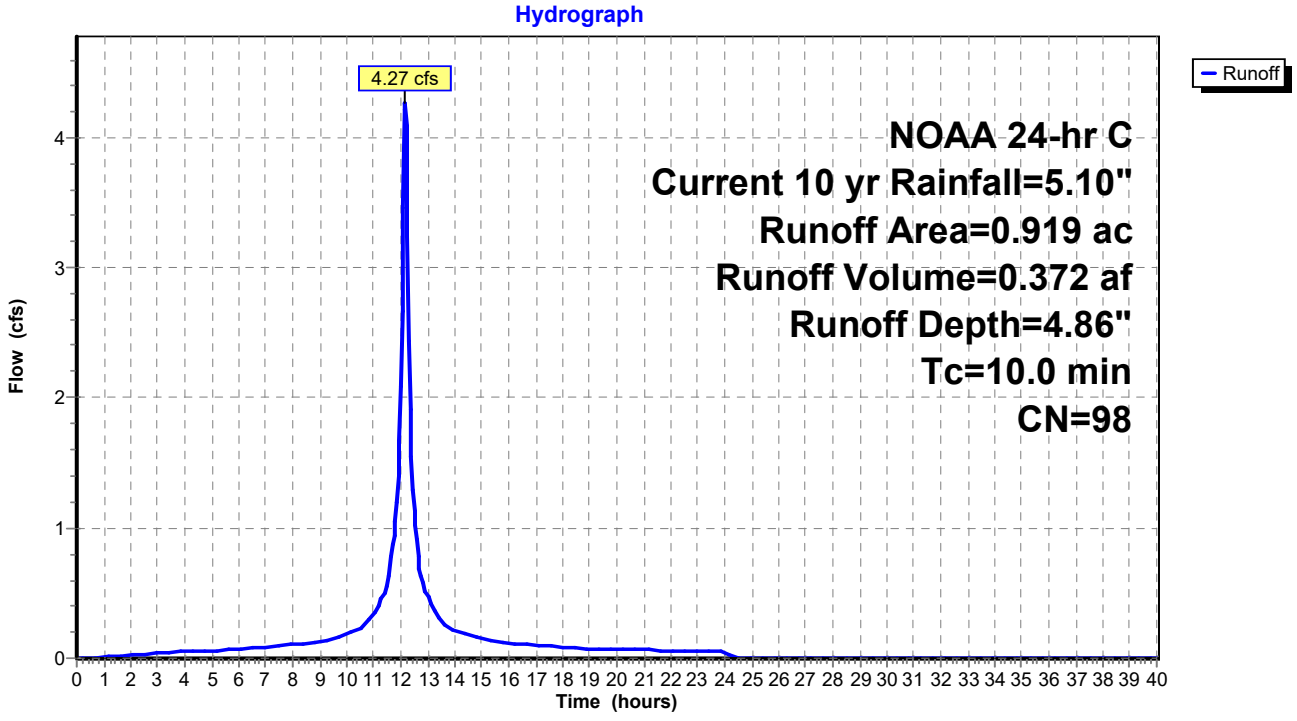
Runoff = 4.27 cfs @ 12.17 hrs, Volume= 0.372 af, Depth= 4.86"
Routed to Pond B-43 : Basin #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

	Area (ac)	CN	Description
*	0.326	98	Pavement, HSG C
*	0.522	98	Roof, HSG C
*	0.071	98	Concrete, HSC C
	0.919	98	Weighted Average
	0.919		100.00% Impervious Area

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

Subcatchment 43I: PDA-43 (impervious)



Summary for Subcatchment 43P: PDA-43 (pervious)

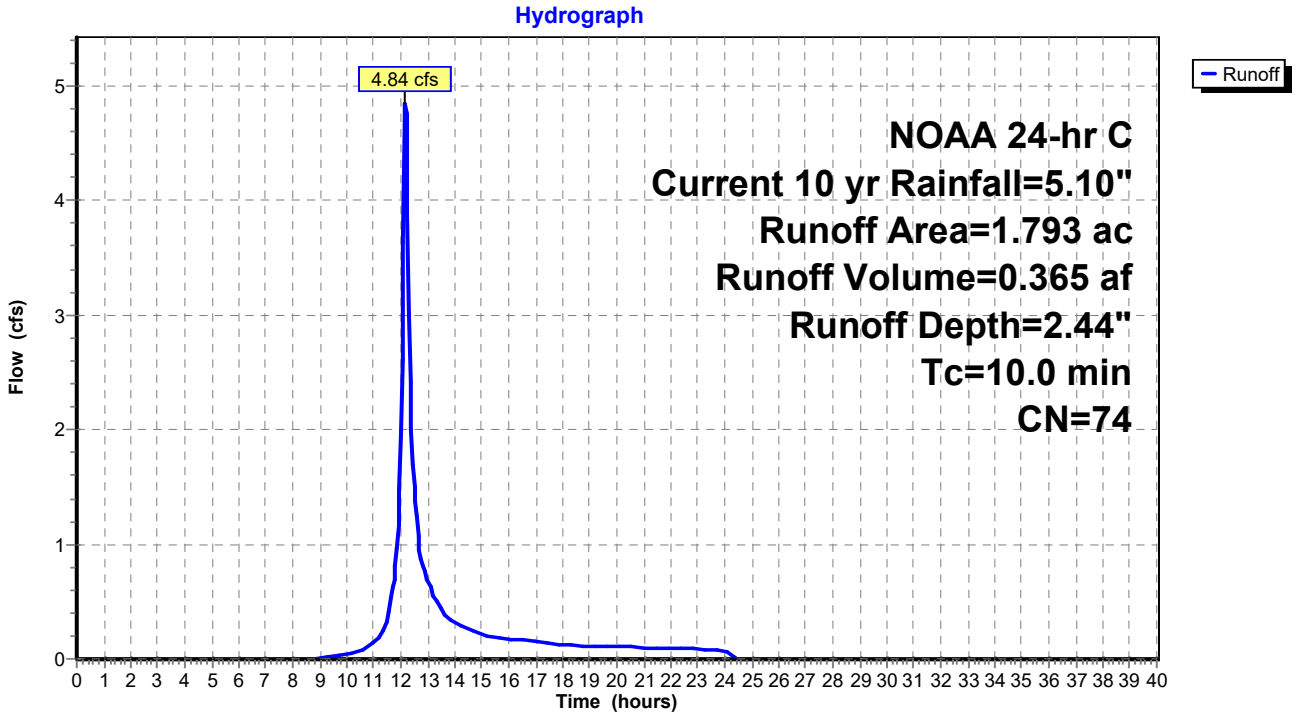
Runoff = 4.84 cfs @ 12.18 hrs, Volume= 0.365 af, Depth= 2.44"
Routed to Pond B-43 : Basin #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.793	74	>75% Grass cover, Good, HSG C
1.793		100.00% Pervious Area

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

Subcatchment 43P: PDA-43 (pervious)



Summary for Subcatchment 44I: PDA-44 (impervious)

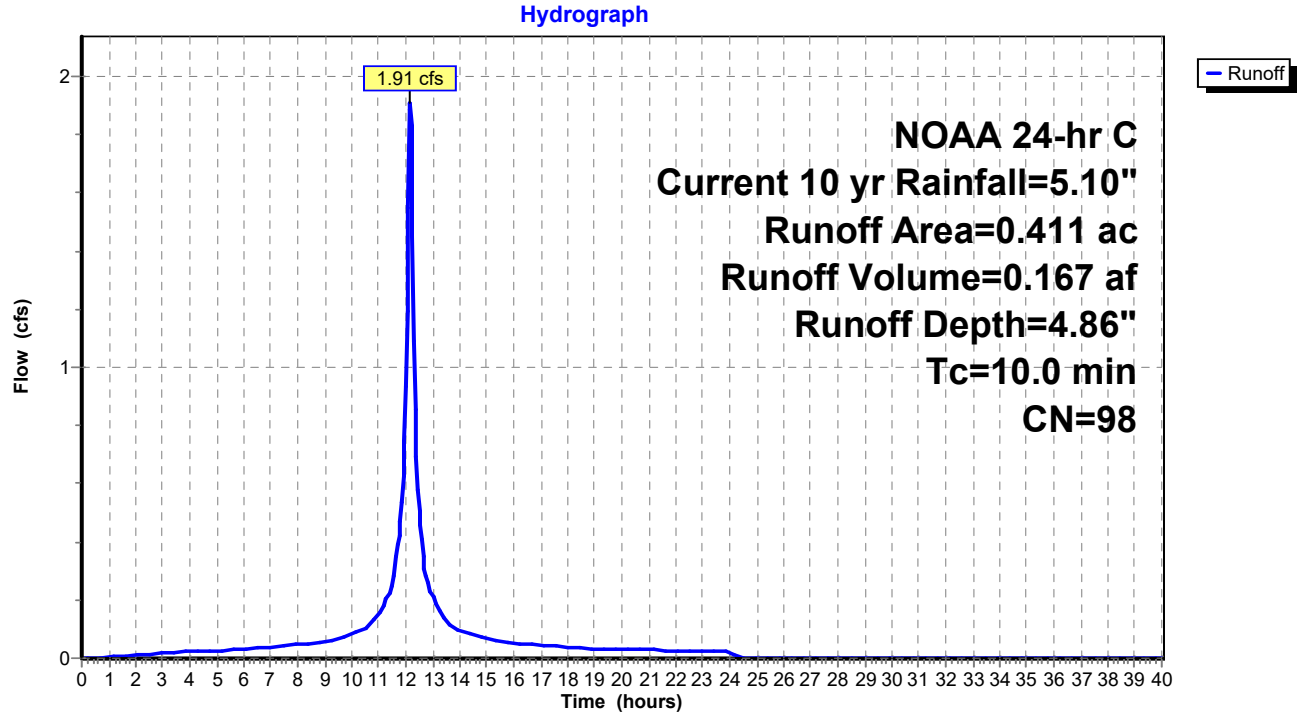
Runoff = 1.91 cfs @ 12.17 hrs, Volume= 0.167 af, Depth= 4.86"
Routed to Pond B-44 : Basin #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

	Area (ac)	CN	Description
*	0.283	98	Pavement, HSG C
*	0.104	98	Roof, HSG C
*	0.024	98	Concrete, HSC C
	0.411	98	Weighted Average
	0.411		100.00% Impervious Area

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

Subcatchment 44I: PDA-44 (impervious)



Summary for Subcatchment 44P: PDA-44 (pervious)

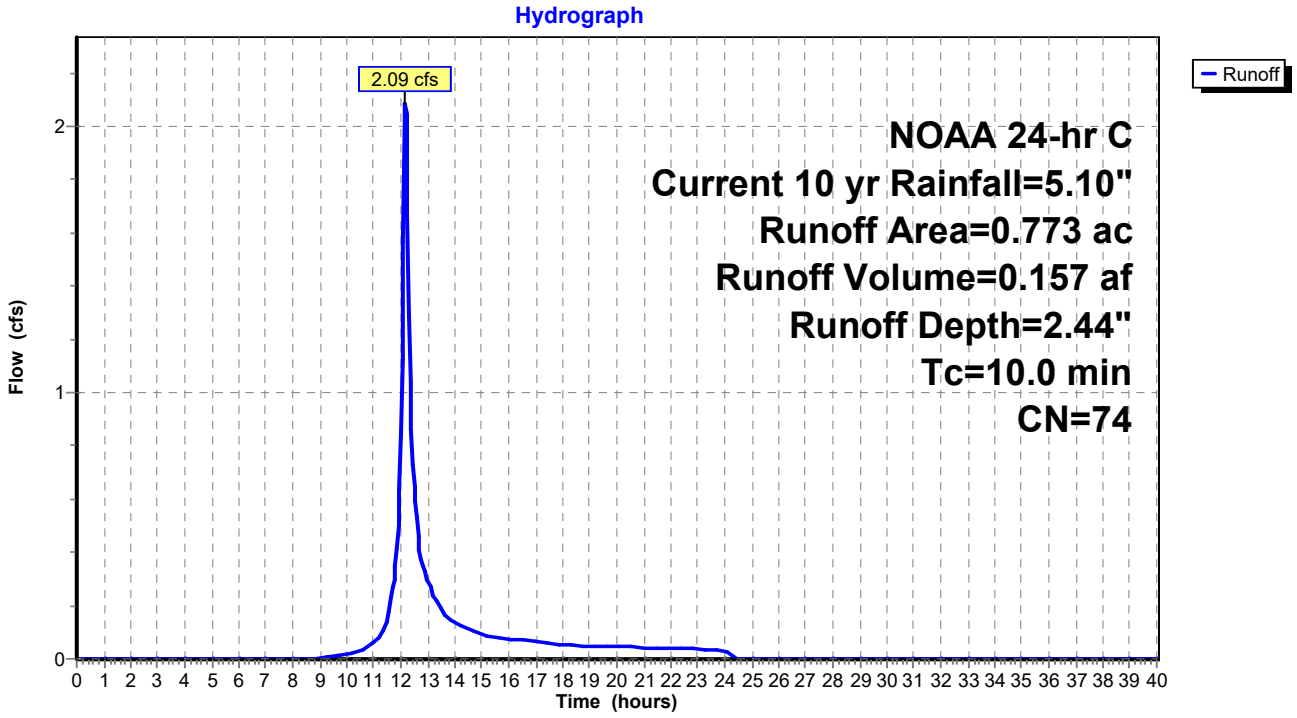
Runoff = 2.09 cfs @ 12.18 hrs, Volume= 0.157 af, Depth= 2.44"
Routed to Pond B-44 : Basin #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.773	74	>75% Grass cover, Good, HSG C
0.773		100.00% Pervious Area

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

Subcatchment 44P: PDA-44 (pervious)



Summary for Subcatchment 45l: PDA-45 (impervious)

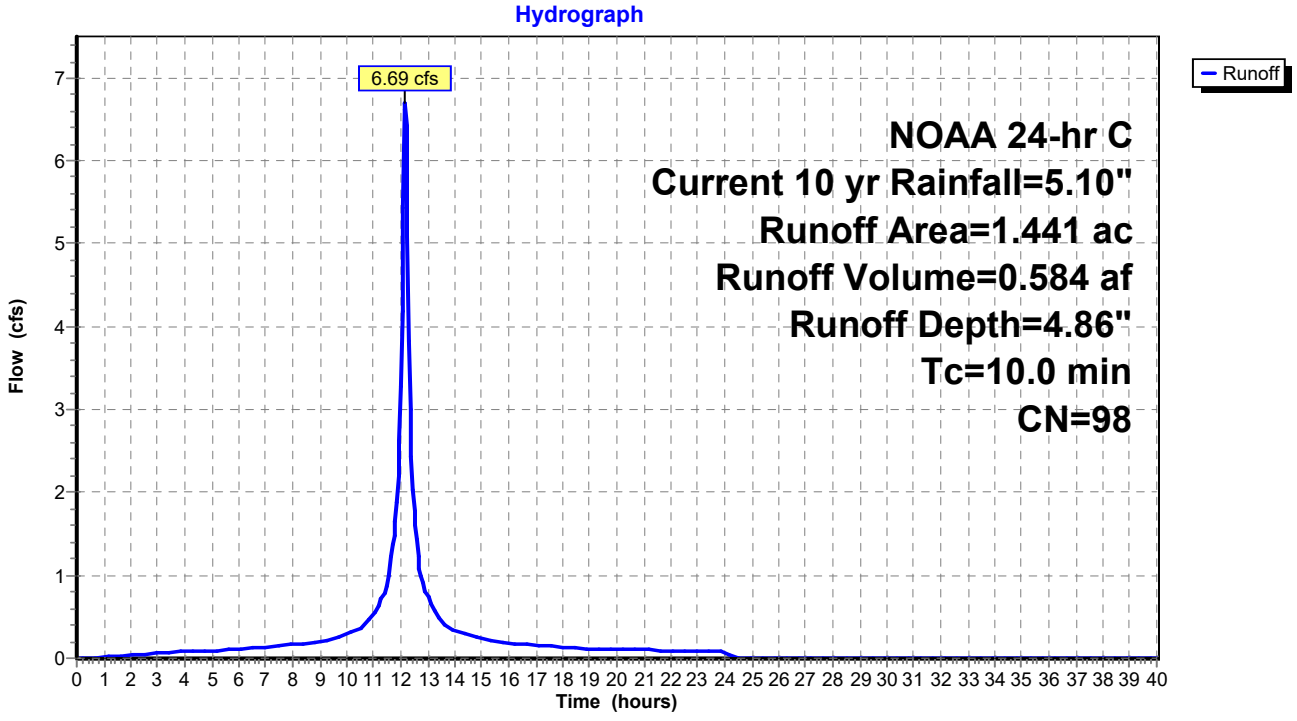
Runoff = 6.69 cfs @ 12.17 hrs, Volume= 0.584 af, Depth= 4.86"
Routed to Pond B-45 : Basin #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

	Area (ac)	CN	Description
*	0.394	98	Pavement, HSG C
*	1.045	98	Roof, HSG C
*	0.002	98	Concrete, HSG C
	1.441	98	Weighted Average
	1.441		100.00% Impervious Area

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

Subcatchment 45l: PDA-45 (impervious)



Summary for Subcatchment 45P: PDA-45 (pervious)

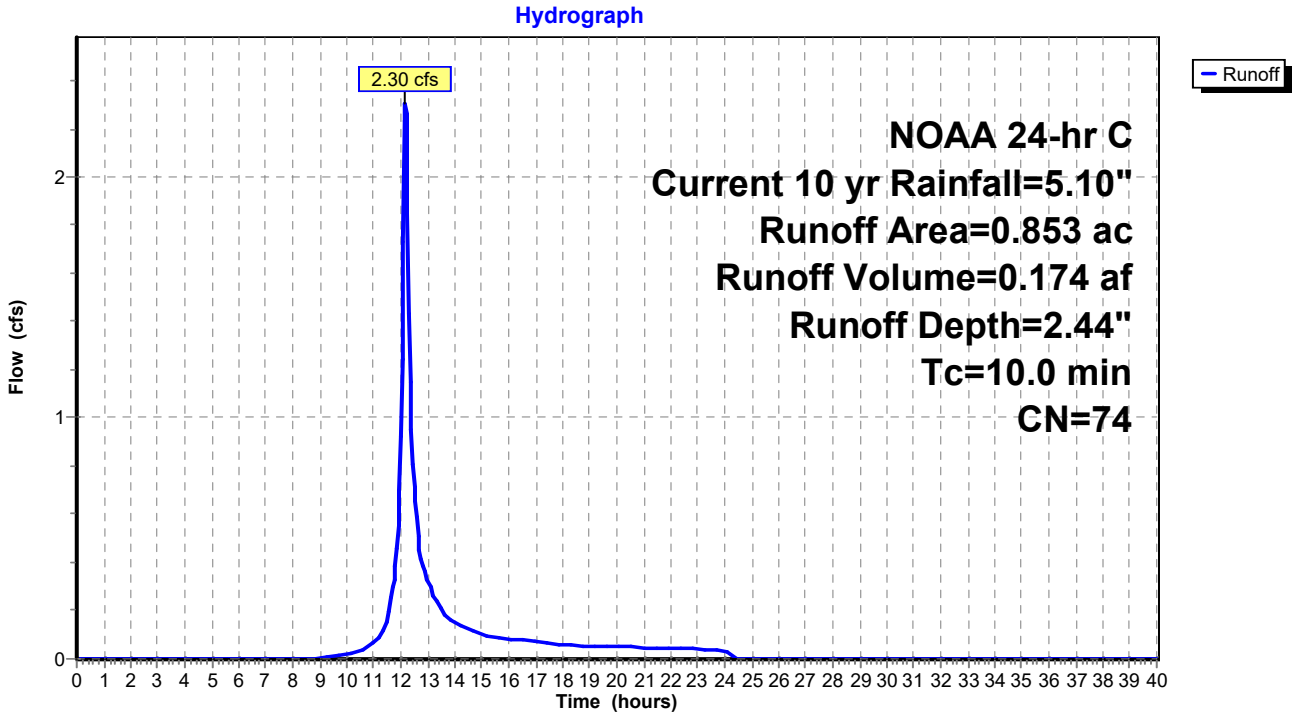
Runoff = 2.30 cfs @ 12.18 hrs, Volume= 0.174 af, Depth= 2.44"
Routed to Pond B-45 : Basin #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.853	74	>75% Grass cover, Good, HSG C
0.853		100.00% Pervious Area

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

Subcatchment 45P: PDA-45 (pervious)



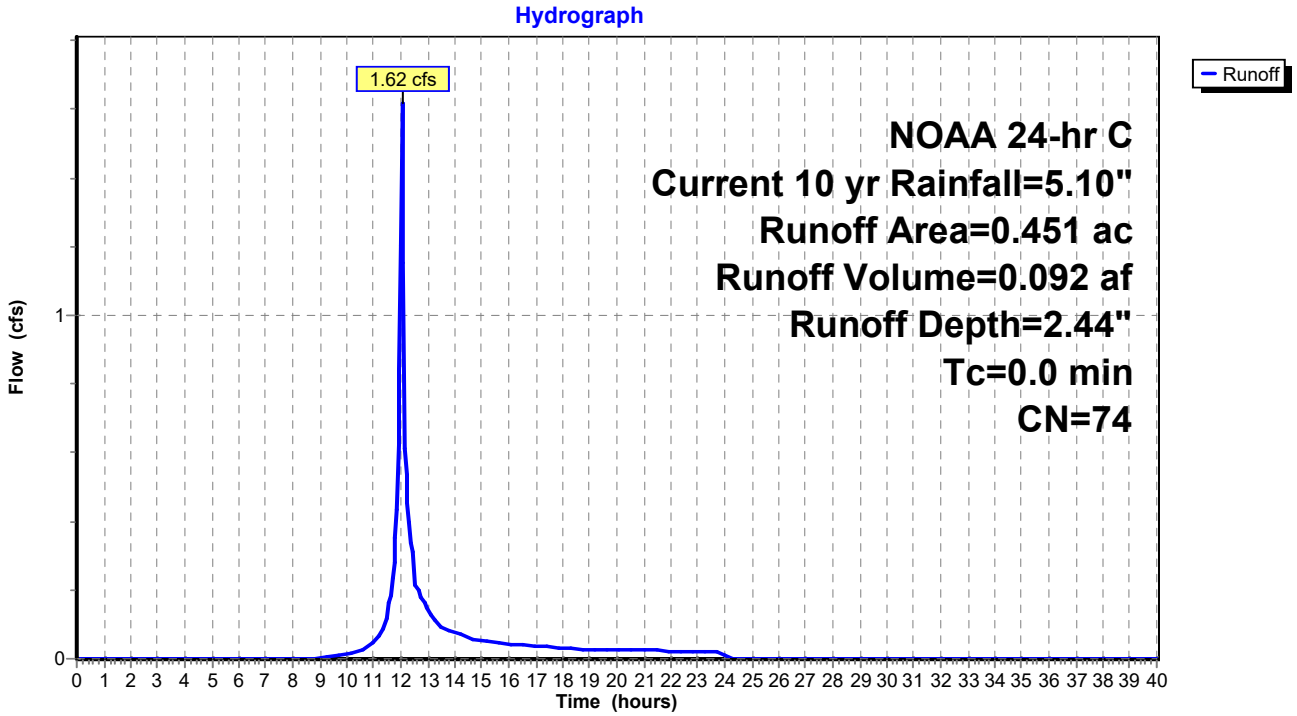
Summary for Subcatchment 46BP: PDA-46B (pervious)

Runoff = 1.62 cfs @ 12.05 hrs, Volume= 0.092 af, Depth= 2.44"
Routed to Pond B-46B : Basin #46B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.451	74	>75% Grass cover, Good, HSG C
0.451		100.00% Pervious Area

Subcatchment 46BP: PDA-46B (pervious)



Summary for Subcatchment 46I: PDA-46 (impervious)

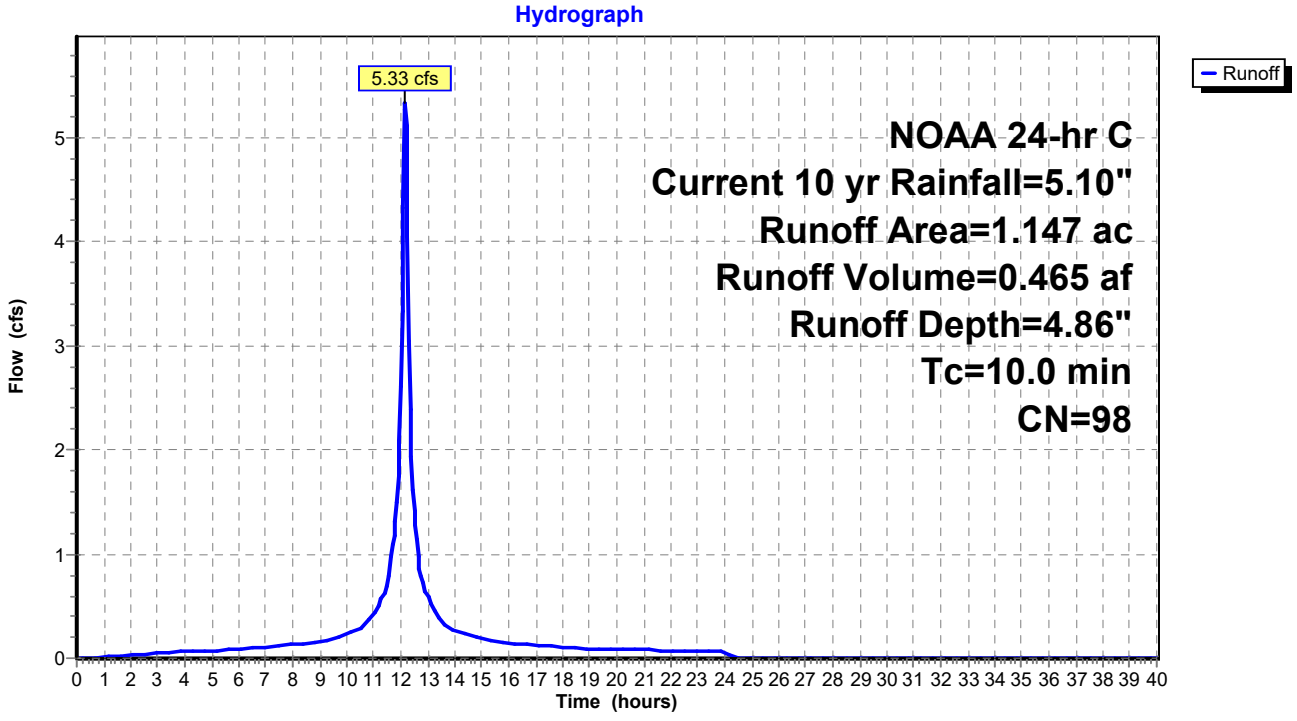
Runoff = 5.33 cfs @ 12.17 hrs, Volume= 0.465 af, Depth= 4.86"
Routed to Pond B-46A : Basin #46A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

	Area (ac)	CN	Description
*	0.430	98	Pavement, HSG C
*	0.653	98	Roof, HSG C
*	0.064	98	Concrete, HSG C
	1.147	98	Weighted Average
	1.147		100.00% Impervious Area

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

Subcatchment 46I: PDA-46 (impervious)



Summary for Subcatchment 46P: PDA-46 (pervious)

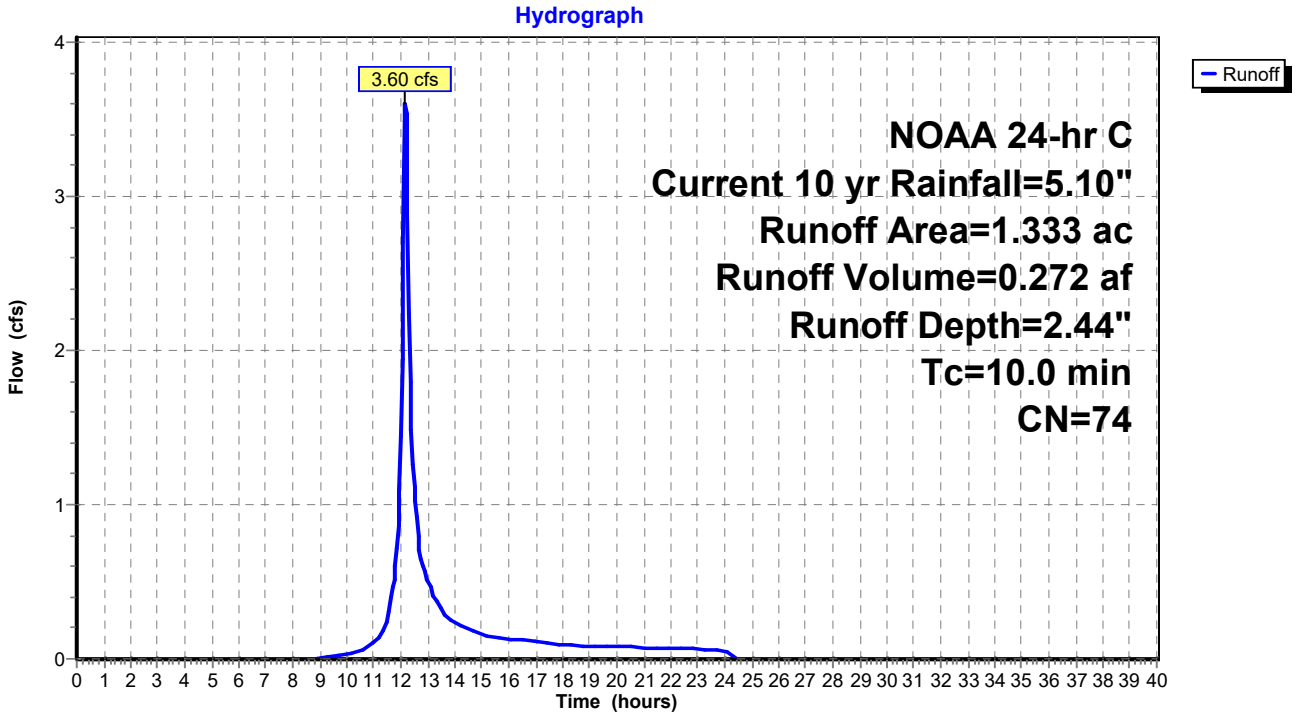
Runoff = 3.60 cfs @ 12.18 hrs, Volume= 0.272 af, Depth= 2.44"
Routed to Pond B-46A : Basin #46A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.333	74	>75% Grass cover, Good, HSG C
1.333		100.00% Pervious Area

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

Subcatchment 46P: PDA-46 (pervious)



Summary for Subcatchment 47I: PDA-47 (impervious)

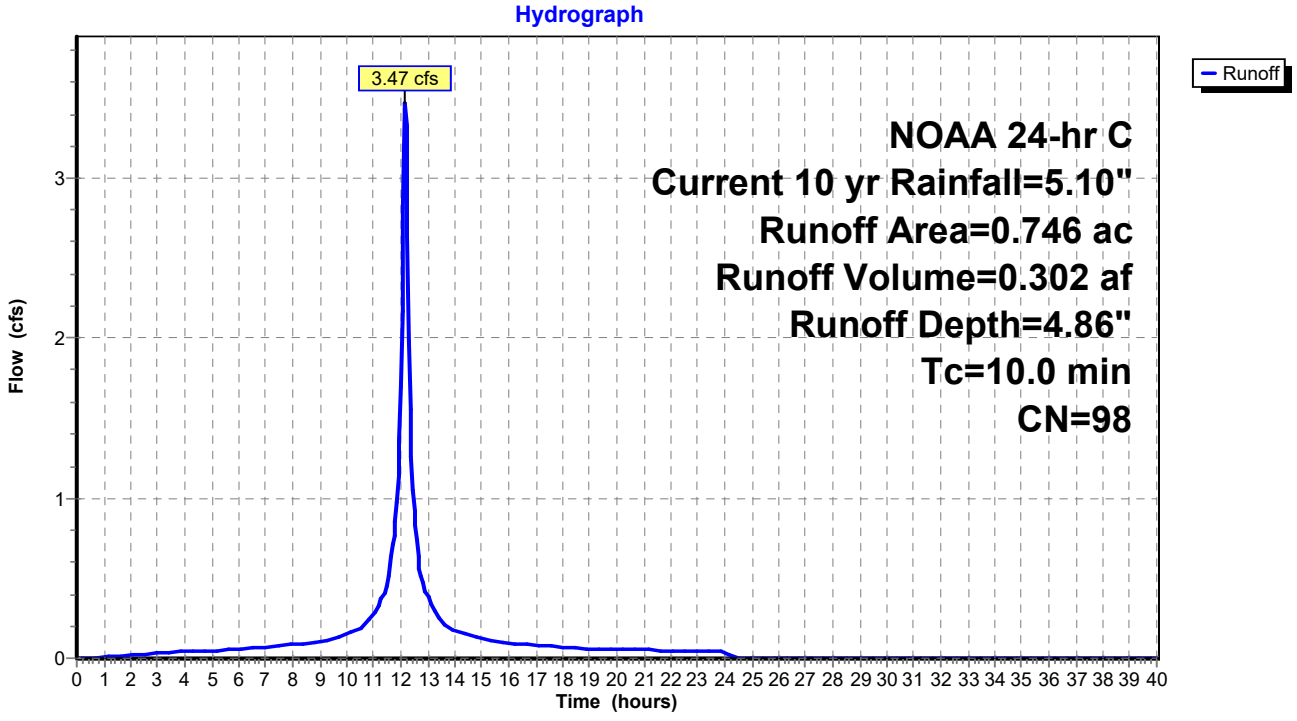
Runoff = 3.47 cfs @ 12.17 hrs, Volume= 0.302 af, Depth= 4.86"
Routed to Pond B-47 : Basin #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

	Area (ac)	CN	Description
*	0.244	98	Pavement, HSG C
*	0.484	98	Roof, HSG C
*	0.018	98	Concrete, HSG C
	0.746	98	Weighted Average
	0.746		100.00% Impervious Area

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

Subcatchment 47I: PDA-47 (impervious)



Summary for Subcatchment 47P: PDA-47 (pervious)

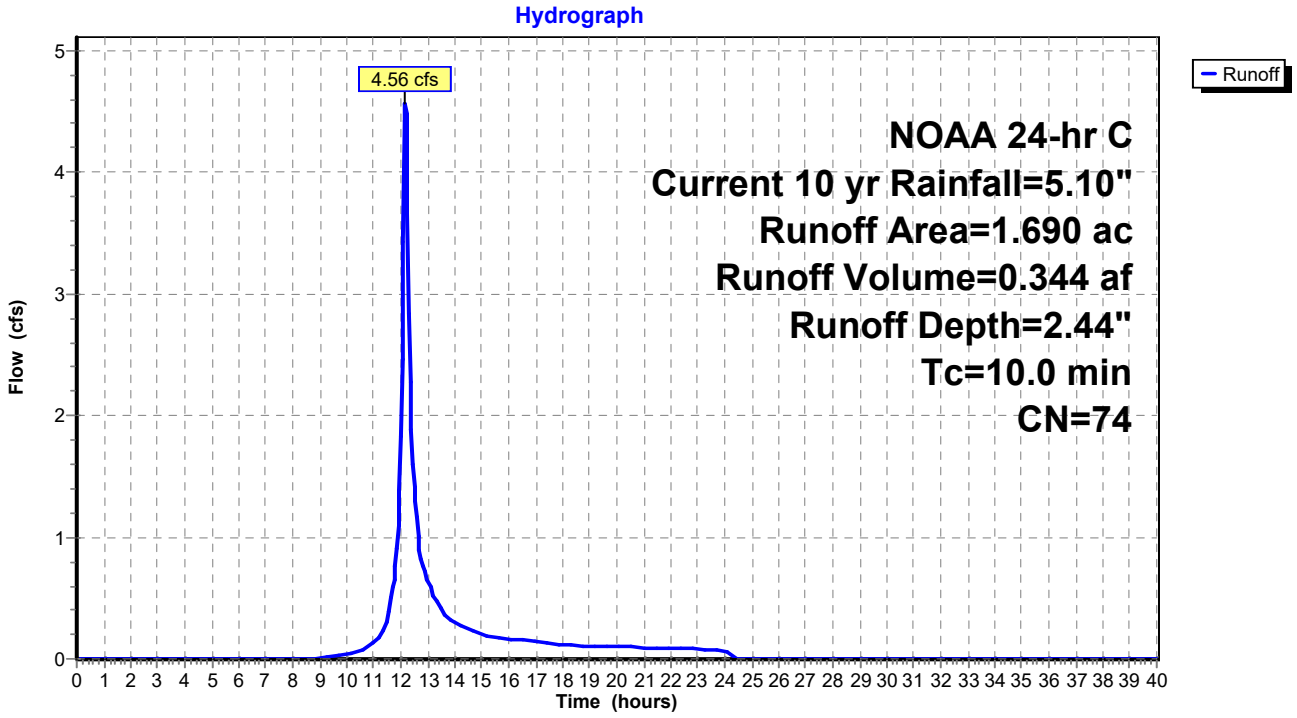
Runoff = 4.56 cfs @ 12.18 hrs, Volume= 0.344 af, Depth= 2.44"
Routed to Pond B-47 : Basin #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.690	74	>75% Grass cover, Good, HSG C
1.690		100.00% Pervious Area

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

Subcatchment 47P: PDA-47 (pervious)



Summary for Subcatchment UPDA-4: PDA-4 (undetained)

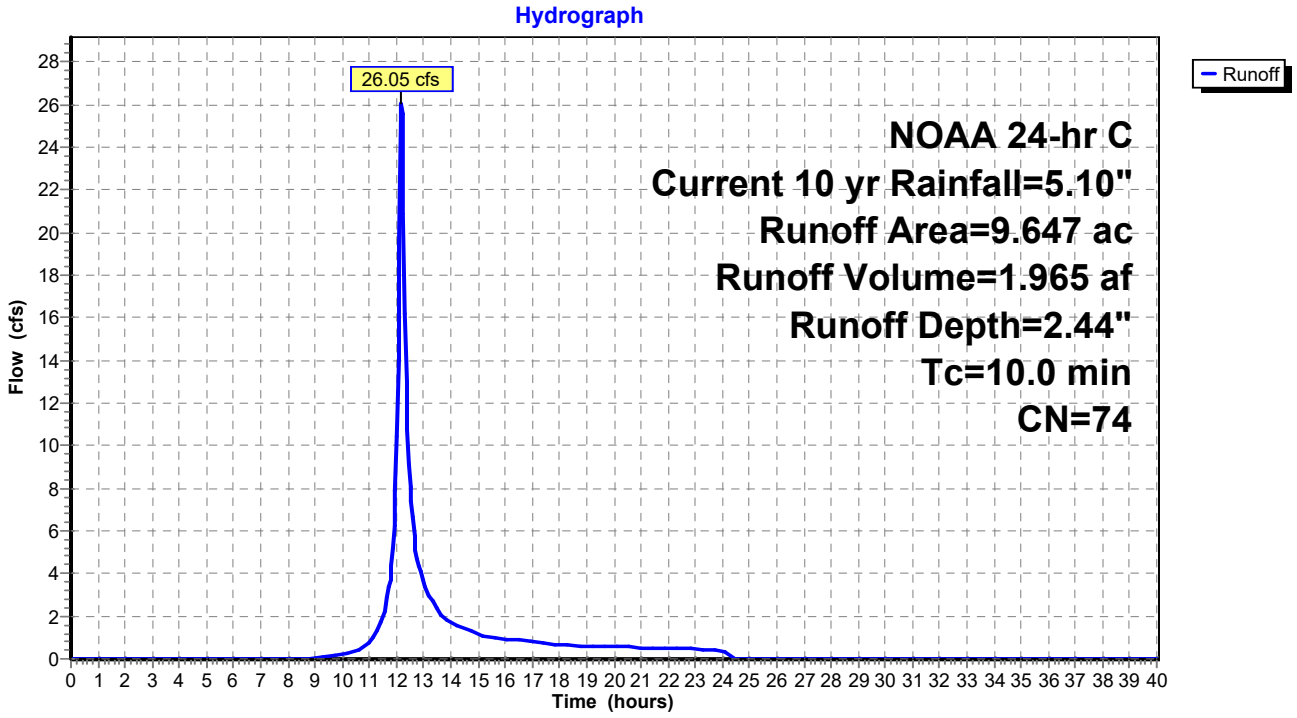
Runoff = 26.05 cfs @ 12.18 hrs, Volume= 1.965 af, Depth= 2.44"
Routed to Link PDA-4 : Proposed Drainage Area #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
9.647	74	>75% Grass cover, Good, HSG C
9.647		100.00% Pervious Area

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

Subcatchment UPDA-4: PDA-4 (undetained)



Summary for Pond B-41: Basin #41

Inflow Area = 2.368 ac, 29.05% Impervious, Inflow Depth = 3.15" for Current 10 yr event
Inflow = 7.73 cfs @ 12.17 hrs, Volume= 0.621 af
Outflow = 3.76 cfs @ 12.36 hrs, Volume= 0.562 af, Atten= 51%, Lag= 10.9 min
Primary = 3.76 cfs @ 12.36 hrs, Volume= 0.562 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 184.55' @ 12.36 hrs Surf.Area= 5,221 sf Storage= 11,616 cf

Plug-Flow detention time= 364.1 min calculated for 0.562 af (90% of inflow)
Center-of-Mass det. time= 314.3 min (1,116.8 - 802.5)

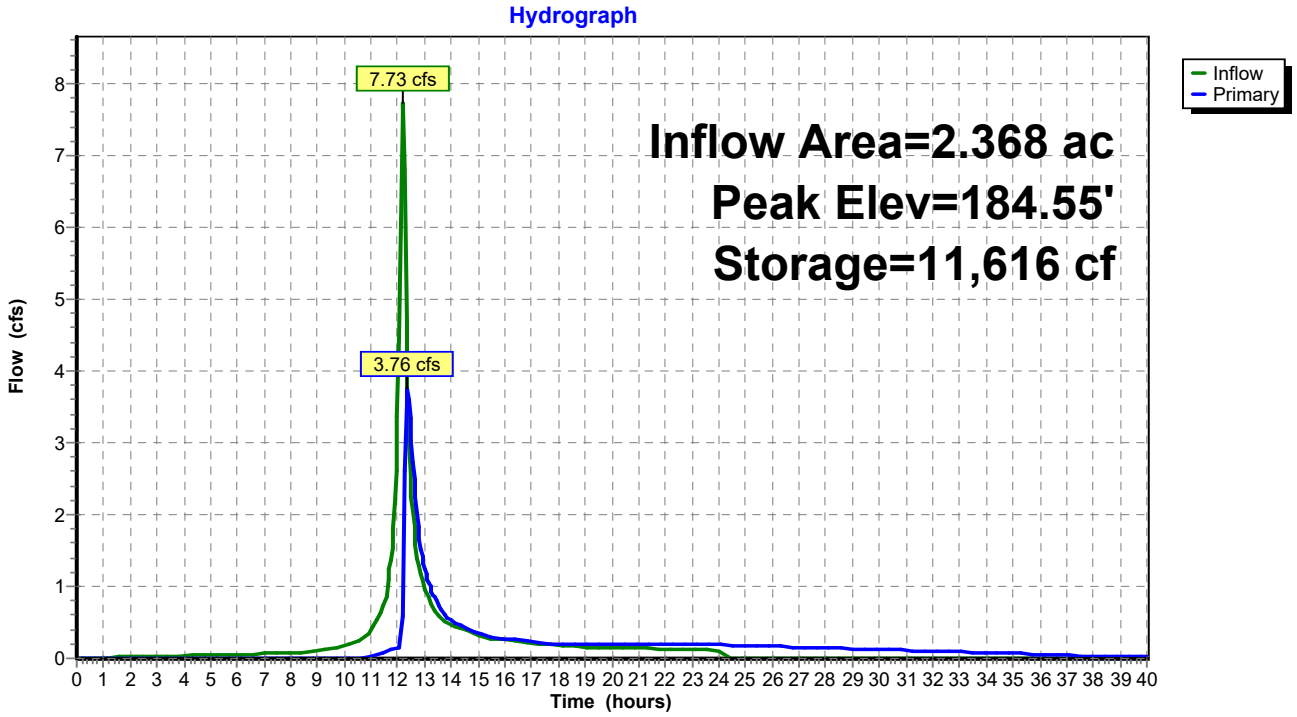
Volume	Invert	Avail.Storage	Storage Description
#1	181.85'	23,005 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
181.85	0	0	0
182.00	3,695	277	277
183.00	4,265	3,980	4,257
184.00	4,870	4,568	8,825
185.00	5,505	5,188	14,012
186.00	6,153	5,829	19,841
186.50	6,502	3,164	23,005

Device	Routing	Invert	Outlet Devices
#1	Primary	181.85'	**18.0" Round Culvert** L= 59.0' Ke= 0.500 Inlet / Outlet Invert= 181.85' / 181.55' S= 0.0051 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	182.50'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.13'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.39'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.73 cfs @ 12.36 hrs HW=184.55' (Free Discharge)
- **1=Culvert** (Passes 3.73 cfs of 10.82 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.23 cfs @ 6.72 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 3.51 cfs @ 2.12 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-41: Basin #41



Stage-Discharge for Pond B-41: Basin #41

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.85	0.00	182.37	0.00	182.89	0.09	183.41	0.15
181.86	0.00	182.38	0.00	182.90	0.09	183.42	0.15
181.87	0.00	182.39	0.00	182.91	0.09	183.43	0.15
181.88	0.00	182.40	0.00	182.92	0.09	183.44	0.15
181.89	0.00	182.41	0.00	182.93	0.09	183.45	0.15
181.90	0.00	182.42	0.00	182.94	0.10	183.46	0.15
181.91	0.00	182.43	0.00	182.95	0.10	183.47	0.15
181.92	0.00	182.44	0.00	182.96	0.10	183.48	0.15
181.93	0.00	182.45	0.00	182.97	0.10	183.49	0.15
181.94	0.00	182.46	0.00	182.98	0.10	183.50	0.16
181.95	0.00	182.47	0.00	182.99	0.10	183.51	0.16
181.96	0.00	182.48	0.00	183.00	0.10	183.52	0.16
181.97	0.00	182.49	0.00	183.01	0.10	183.53	0.16
181.98	0.00	182.50	0.00	183.02	0.11	183.54	0.16
181.99	0.00	182.51	0.00	183.03	0.11	183.55	0.16
182.00	0.00	182.52	0.00	183.04	0.11	183.56	0.16
182.01	0.00	182.53	0.00	183.05	0.11	183.57	0.16
182.02	0.00	182.54	0.00	183.06	0.11	183.58	0.16
182.03	0.00	182.55	0.00	183.07	0.11	183.59	0.16
182.04	0.00	182.56	0.01	183.08	0.11	183.60	0.16
182.05	0.00	182.57	0.01	183.09	0.11	183.61	0.16
182.06	0.00	182.58	0.01	183.10	0.12	183.62	0.17
182.07	0.00	182.59	0.01	183.11	0.12	183.63	0.17
182.08	0.00	182.60	0.02	183.12	0.12	183.64	0.17
182.09	0.00	182.61	0.02	183.13	0.12	183.65	0.17
182.10	0.00	182.62	0.02	183.14	0.12	183.66	0.17
182.11	0.00	182.63	0.03	183.15	0.12	183.67	0.17
182.12	0.00	182.64	0.03	183.16	0.12	183.68	0.17
182.13	0.00	182.65	0.03	183.17	0.12	183.69	0.17
182.14	0.00	182.66	0.04	183.18	0.12	183.70	0.17
182.15	0.00	182.67	0.04	183.19	0.13	183.71	0.17
182.16	0.00	182.68	0.05	183.20	0.13	183.72	0.17
182.17	0.00	182.69	0.05	183.21	0.13	183.73	0.17
182.18	0.00	182.70	0.05	183.22	0.13	183.74	0.17
182.19	0.00	182.71	0.05	183.23	0.13	183.75	0.18
182.20	0.00	182.72	0.06	183.24	0.13	183.76	0.18
182.21	0.00	182.73	0.06	183.25	0.13	183.77	0.18
182.22	0.00	182.74	0.06	183.26	0.13	183.78	0.18
182.23	0.00	182.75	0.06	183.27	0.13	183.79	0.18
182.24	0.00	182.76	0.06	183.28	0.13	183.80	0.18
182.25	0.00	182.77	0.07	183.29	0.14	183.81	0.18
182.26	0.00	182.78	0.07	183.30	0.14	183.82	0.18
182.27	0.00	182.79	0.07	183.31	0.14	183.83	0.18
182.28	0.00	182.80	0.07	183.32	0.14	183.84	0.18
182.29	0.00	182.81	0.07	183.33	0.14	183.85	0.18
182.30	0.00	182.82	0.08	183.34	0.14	183.86	0.18
182.31	0.00	182.83	0.08	183.35	0.14	183.87	0.18
182.32	0.00	182.84	0.08	183.36	0.14	183.88	0.19
182.33	0.00	182.85	0.08	183.37	0.14	183.89	0.19
182.34	0.00	182.86	0.08	183.38	0.14	183.90	0.19
182.35	0.00	182.87	0.08	183.39	0.15	183.91	0.19
182.36	0.00	182.88	0.09	183.40	0.15	183.92	0.19

Stage-Discharge for Pond B-41: Basin #41 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.93	0.19	184.45	2.55	184.97	9.90	185.49	17.51
183.94	0.19	184.46	2.66	184.98	10.07	185.50	18.11
183.95	0.19	184.47	2.77	184.99	10.24	185.51	18.74
183.96	0.19	184.48	2.89	185.00	10.41	185.52	19.40
183.97	0.19	184.49	3.00	185.01	10.58	185.53	20.08
183.98	0.19	184.50	3.12	185.02	10.75	185.54	20.78
183.99	0.19	184.51	3.23	185.03	10.92	185.55	21.51
184.00	0.19	184.52	3.35	185.04	11.09	185.56	22.26
184.01	0.19	184.53	3.47	185.05	11.27	185.57	23.03
184.02	0.20	184.54	3.59	185.06	11.44	185.58	23.82
184.03	0.20	184.55	3.71	185.07	11.62	185.59	24.64
184.04	0.20	184.56	3.84	185.08	11.79	185.60	25.51
184.05	0.20	184.57	3.96	185.09	11.97	185.61	26.41
184.06	0.20	184.58	4.09	185.10	12.15	185.62	27.34
184.07	0.20	184.59	4.22	185.11	12.33	185.63	28.29
184.08	0.20	184.60	4.35	185.12	12.51	185.64	29.27
184.09	0.20	184.61	4.48	185.13	12.69	185.65	30.27
184.10	0.20	184.62	4.61	185.14	12.77	185.66	31.29
184.11	0.20	184.63	4.74	185.15	12.80	185.67	32.34
184.12	0.20	184.64	4.88	185.16	12.83	185.68	33.42
184.13	0.20	184.65	5.01	185.17	12.86	185.69	34.52
184.14	0.22	184.66	5.15	185.18	12.89	185.70	35.64
184.15	0.24	184.67	5.29	185.19	12.92	185.71	36.79
184.16	0.27	184.68	5.42	185.20	12.95	185.72	37.96
184.17	0.31	184.69	5.56	185.21	12.98	185.73	39.16
184.18	0.35	184.70	5.71	185.22	13.01	185.74	40.38
184.19	0.40	184.71	5.85	185.23	13.04	185.75	41.63
184.20	0.45	184.72	5.99	185.24	13.07	185.76	42.89
184.21	0.50	184.73	6.14	185.25	13.10	185.77	44.19
184.22	0.56	184.74	6.28	185.26	13.13	185.78	45.51
184.23	0.62	184.75	6.43	185.27	13.16	185.79	46.85
184.24	0.68	184.76	6.58	185.28	13.19	185.80	48.24
184.25	0.75	184.77	6.72	185.29	13.22	185.81	49.66
184.26	0.82	184.78	6.87	185.30	13.25	185.82	51.10
184.27	0.89	184.79	7.02	185.31	13.28	185.83	52.57
184.28	0.97	184.80	7.18	185.32	13.30	185.84	54.07
184.29	1.04	184.81	7.33	185.33	13.33	185.85	55.59
184.30	1.12	184.82	7.48	185.34	13.36	185.86	57.14
184.31	1.20	184.83	7.64	185.35	13.39	185.87	58.72
184.32	1.29	184.84	7.79	185.36	13.42	185.88	60.32
184.33	1.37	184.85	7.95	185.37	13.45	185.89	61.95
184.34	1.46	184.86	8.11	185.38	13.48	185.90	63.60
184.35	1.55	184.87	8.27	185.39	13.51	185.91	65.28
184.36	1.64	184.88	8.42	185.40	13.65	185.92	66.99
184.37	1.74	184.89	8.59	185.41	13.90	185.93	68.72
184.38	1.83	184.90	8.75	185.42	14.20	185.94	70.48
184.39	1.93	184.91	8.91	185.43	14.56	185.95	72.27
184.40	2.03	184.92	9.07	185.44	14.96	185.96	74.09
184.41	2.13	184.93	9.24	185.45	15.40	185.97	75.93
184.42	2.23	184.94	9.40	185.46	15.88	185.98	77.80
184.43	2.34	184.95	9.57	185.47	16.39	185.99	79.69
184.44	2.45	184.96	9.73	185.48	16.94	186.00	81.34

Stage-Discharge for Pond B-41: Basin #41 (continued)

Elevation (feet)	Primary (cfs)
186.01	83.01
186.02	84.69
186.03	86.38
186.04	88.09
186.05	89.81
186.06	91.54
186.07	93.29
186.08	95.04
186.09	96.81
186.10	98.60
186.11	100.40
186.12	102.20
186.13	104.03
186.14	105.86
186.15	107.71
186.16	109.56
186.17	111.44
186.18	113.32
186.19	115.21
186.20	117.16
186.21	119.11
186.22	121.09
186.23	123.07
186.24	125.07
186.25	127.08
186.26	129.10
186.27	131.14
186.28	133.19
186.29	135.25
186.30	137.32
186.31	139.41
186.32	141.51
186.33	143.63
186.34	145.75
186.35	147.89
186.36	150.04
186.37	152.21
186.38	154.38
186.39	156.57
186.40	158.72
186.41	160.88
186.42	163.05
186.43	165.23
186.44	167.42
186.45	169.62
186.46	171.83
186.47	174.05
186.48	176.29
186.49	178.53
186.50	**180.78**

Stage-Area-Storage for Pond B-41: Basin #41

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.85	0	0	182.37	3,906	1,683
181.86	246	1	182.38	3,912	1,722
181.87	493	5	182.39	3,917	1,762
181.88	739	11	182.40	3,923	1,801
181.89	985	20	182.41	3,929	1,840
181.90	1,232	31	182.42	3,934	1,879
181.91	1,478	44	182.43	3,940	1,919
181.92	1,724	60	182.44	3,946	1,958
181.93	1,971	79	182.45	3,951	1,998
181.94	2,217	100	182.46	3,957	2,037
181.95	2,463	123	182.47	3,963	2,077
181.96	2,710	149	182.48	3,969	2,116
181.97	2,956	177	182.49	3,974	2,156
181.98	3,202	208	182.50	3,980	2,196
181.99	3,449	241	182.51	3,986	2,236
182.00	3,695	277	182.52	3,991	2,276
182.01	3,701	314	182.53	3,997	2,316
182.02	3,706	351	182.54	4,003	2,356
182.03	3,712	388	182.55	4,008	2,396
182.04	3,718	425	182.56	4,014	2,436
182.05	3,723	463	182.57	4,020	2,476
182.06	3,729	500	182.58	4,026	2,516
182.07	3,735	537	182.59	4,031	2,556
182.08	3,741	575	182.60	4,037	2,597
182.09	3,746	612	182.61	4,043	2,637
182.10	3,752	649	182.62	4,048	2,678
182.11	3,758	687	182.63	4,054	2,718
182.12	3,763	725	182.64	4,060	2,759
182.13	3,769	762	182.65	4,066	2,799
182.14	3,775	800	182.66	4,071	2,840
182.15	3,781	838	182.67	4,077	2,881
182.16	3,786	876	182.68	4,083	2,922
182.17	3,792	914	182.69	4,088	2,962
182.18	3,798	951	182.70	4,094	3,003
182.19	3,803	989	182.71	4,100	3,044
182.20	3,809	1,028	182.72	4,105	3,085
182.21	3,815	1,066	182.73	4,111	3,126
182.22	3,820	1,104	182.74	4,117	3,167
182.23	3,826	1,142	182.75	4,123	3,209
182.24	3,832	1,180	182.76	4,128	3,250
182.25	3,838	1,219	182.77	4,134	3,291
182.26	3,843	1,257	182.78	4,140	3,333
182.27	3,849	1,296	182.79	4,145	3,374
182.28	3,855	1,334	182.80	4,151	3,416
182.29	3,860	1,373	182.81	4,157	3,457
182.30	3,866	1,411	182.82	4,162	3,499
182.31	3,872	1,450	182.83	4,168	3,540
182.32	3,877	1,489	182.84	4,174	3,582
182.33	3,883	1,528	182.85	4,179	3,624
182.34	3,889	1,566	182.86	4,185	3,666
182.35	3,894	1,605	182.87	4,191	3,707
182.36	3,900	1,644	182.88	4,197	3,749

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.89	4,202	3,791	183.41	4,513	6,057
182.90	4,208	3,833	183.42	4,519	6,102
182.91	4,214	3,876	183.43	4,525	6,147
182.92	4,219	3,918	183.44	4,531	6,192
182.93	4,225	3,960	183.45	4,537	6,238
182.94	4,231	4,002	183.46	4,543	6,283
182.95	4,236	4,045	183.47	4,549	6,328
182.96	4,242	4,087	183.48	4,555	6,374
182.97	4,248	4,129	183.49	4,561	6,420
182.98	4,254	4,172	183.50	4,568	6,465
182.99	4,259	4,215	183.51	4,574	6,511
183.00	4,265	4,257	183.52	4,580	6,557
183.01	4,271	4,300	183.53	4,586	6,603
183.02	4,277	4,343	183.54	4,592	6,648
183.03	4,283	4,385	183.55	4,598	6,694
183.04	4,289	4,428	183.56	4,604	6,740
183.05	4,295	4,471	183.57	4,610	6,786
183.06	4,301	4,514	183.58	4,616	6,833
183.07	4,307	4,557	183.59	4,622	6,879
183.08	4,313	4,600	183.60	4,628	6,925
183.09	4,319	4,643	183.61	4,634	6,971
183.10	4,325	4,687	183.62	4,640	7,018
183.11	4,332	4,730	183.63	4,646	7,064
183.12	4,338	4,773	183.64	4,652	7,111
183.13	4,344	4,817	183.65	4,658	7,157
183.14	4,350	4,860	183.66	4,664	7,204
183.15	4,356	4,904	183.67	4,670	7,250
183.16	4,362	4,947	183.68	4,676	7,297
183.17	4,368	4,991	183.69	4,682	7,344
183.18	4,374	5,035	183.70	4,688	7,391
183.19	4,380	5,078	183.71	4,695	7,438
183.20	4,386	5,122	183.72	4,701	7,485
183.21	4,392	5,166	183.73	4,707	7,532
183.22	4,398	5,210	183.74	4,713	7,579
183.23	4,404	5,254	183.75	4,719	7,626
183.24	4,410	5,298	183.76	4,725	7,673
183.25	4,416	5,342	183.77	4,731	7,721
183.26	4,422	5,386	183.78	4,737	7,768
183.27	4,428	5,431	183.79	4,743	7,815
183.28	4,434	5,475	183.80	4,749	7,863
183.29	4,440	5,519	183.81	4,755	7,910
183.30	4,446	5,564	183.82	4,761	7,958
183.31	4,453	5,608	183.83	4,767	8,005
183.32	4,459	5,653	183.84	4,773	8,053
183.33	4,465	5,698	183.85	4,779	8,101
183.34	4,471	5,742	183.86	4,785	8,149
183.35	4,477	5,787	183.87	4,791	8,197
183.36	4,483	5,832	183.88	4,797	8,245
183.37	4,489	5,877	183.89	4,803	8,293
183.38	4,495	5,922	183.90	4,810	8,341
183.39	4,501	5,966	183.91	4,816	8,389
183.40	4,507	6,012	183.92	4,822	8,437

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.93	4,828	8,485	184.45	5,156	11,080
183.94	4,834	8,534	184.46	5,162	11,132
183.95	4,840	8,582	184.47	5,168	11,184
183.96	4,846	8,630	184.48	5,175	11,235
183.97	4,852	8,679	184.49	5,181	11,287
183.98	4,858	8,727	184.50	5,188	11,339
183.99	4,864	8,776	184.51	5,194	11,391
184.00	4,870	8,825	184.52	5,200	11,443
184.01	4,876	8,873	184.53	5,207	11,495
184.02	4,883	8,922	184.54	5,213	11,547
184.03	4,889	8,971	184.55	5,219	11,599
184.04	4,895	9,020	184.56	5,226	11,651
184.05	4,902	9,069	184.57	5,232	11,704
184.06	4,908	9,118	184.58	5,238	11,756
184.07	4,914	9,167	184.59	5,245	11,808
184.08	4,921	9,216	184.60	5,251	11,861
184.09	4,927	9,265	184.61	5,257	11,913
184.10	4,933	9,315	184.62	5,264	11,966
184.11	4,940	9,364	184.63	5,270	12,019
184.12	4,946	9,414	184.64	5,276	12,071
184.13	4,953	9,463	184.65	5,283	12,124
184.14	4,959	9,513	184.66	5,289	12,177
184.15	4,965	9,562	184.67	5,295	12,230
184.16	4,972	9,612	184.68	5,302	12,283
184.17	4,978	9,662	184.69	5,308	12,336
184.18	4,984	9,712	184.70	5,314	12,389
184.19	4,991	9,761	184.71	5,321	12,442
184.20	4,997	9,811	184.72	5,327	12,496
184.21	5,003	9,861	184.73	5,334	12,549
184.22	5,010	9,911	184.74	5,340	12,602
184.23	5,016	9,962	184.75	5,346	12,656
184.24	5,022	10,012	184.76	5,353	12,709
184.25	5,029	10,062	184.77	5,359	12,763
184.26	5,035	10,112	184.78	5,365	12,816
184.27	5,041	10,163	184.79	5,372	12,870
184.28	5,048	10,213	184.80	5,378	12,924
184.29	5,054	10,264	184.81	5,384	12,978
184.30	5,060	10,314	184.82	5,391	13,032
184.31	5,067	10,365	184.83	5,397	13,085
184.32	5,073	10,416	184.84	5,403	13,139
184.33	5,080	10,466	184.85	5,410	13,194
184.34	5,086	10,517	184.86	5,416	13,248
184.35	5,092	10,568	184.87	5,422	13,302
184.36	5,099	10,619	184.88	5,429	13,356
184.37	5,105	10,670	184.89	5,435	13,410
184.38	5,111	10,721	184.90	5,442	13,465
184.39	5,118	10,772	184.91	5,448	13,519
184.40	5,124	10,823	184.92	5,454	13,574
184.41	5,130	10,875	184.93	5,461	13,628
184.42	5,137	10,926	184.94	5,467	13,683
184.43	5,143	10,977	184.95	5,473	13,738
184.44	5,149	11,029	184.96	5,480	13,792

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.97	5,486	13,847	185.49	5,823	16,787
184.98	5,492	13,902	185.50	5,829	16,846
184.99	5,499	13,957	185.51	5,835	16,904
185.00	5,505	14,012	185.52	5,842	16,962
185.01	5,511	14,067	185.53	5,848	17,021
185.02	5,518	14,122	185.54	5,855	17,079
185.03	5,524	14,178	185.55	5,861	17,138
185.04	5,531	14,233	185.56	5,868	17,197
185.05	5,537	14,288	185.57	5,874	17,255
185.06	5,544	14,344	185.58	5,881	17,314
185.07	5,550	14,399	185.59	5,887	17,373
185.08	5,557	14,455	185.60	5,894	17,432
185.09	5,563	14,510	185.61	5,900	17,491
185.10	5,570	14,566	185.62	5,907	17,550
185.11	5,576	14,622	185.63	5,913	17,609
185.12	5,583	14,677	185.64	5,920	17,668
185.13	5,589	14,733	185.65	5,926	17,727
185.14	5,596	14,789	185.66	5,933	17,787
185.15	5,602	14,845	185.67	5,939	17,846
185.16	5,609	14,901	185.68	5,946	17,905
185.17	5,615	14,957	185.69	5,952	17,965
185.18	5,622	15,014	185.70	5,959	18,024
185.19	5,628	15,070	185.71	5,965	18,084
185.20	5,635	15,126	185.72	5,972	18,144
185.21	5,641	15,182	185.73	5,978	18,203
185.22	5,648	15,239	185.74	5,985	18,263
185.23	5,654	15,295	185.75	5,991	18,323
185.24	5,661	15,352	185.76	5,997	18,383
185.25	5,667	15,409	185.77	6,004	18,443
185.26	5,673	15,465	185.78	6,010	18,503
185.27	5,680	15,522	185.79	6,017	18,563
185.28	5,686	15,579	185.80	6,023	18,623
185.29	5,693	15,636	185.81	6,030	18,684
185.30	5,699	15,693	185.82	6,036	18,744
185.31	5,706	15,750	185.83	6,043	18,804
185.32	5,712	15,807	185.84	6,049	18,865
185.33	5,719	15,864	185.85	6,056	18,925
185.34	5,725	15,921	185.86	6,062	18,986
185.35	5,732	15,979	185.87	6,069	19,047
185.36	5,738	16,036	185.88	6,075	19,107
185.37	5,745	16,093	185.89	6,082	19,168
185.38	5,751	16,151	185.90	6,088	19,229
185.39	5,758	16,208	185.91	6,095	19,290
185.40	5,764	16,266	185.92	6,101	19,351
185.41	5,771	16,324	185.93	6,108	19,412
185.42	5,777	16,381	185.94	6,114	19,473
185.43	5,784	16,439	185.95	6,121	19,534
185.44	5,790	16,497	185.96	6,127	19,596
185.45	5,797	16,555	185.97	6,134	19,657
185.46	5,803	16,613	185.98	6,140	19,718
185.47	5,810	16,671	185.99	6,147	19,780
185.48	5,816	16,729	186.00	6,153	19,841

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.01	6,160	19,903
186.02	6,167	19,964
186.03	6,174	20,026
186.04	6,181	20,088
186.05	6,188	20,150
186.06	6,195	20,212
186.07	6,202	20,274
186.08	6,209	20,336
186.09	6,216	20,398
186.10	6,223	20,460
186.11	6,230	20,522
186.12	6,237	20,585
186.13	6,244	20,647
186.14	6,251	20,709
186.15	6,258	20,772
186.16	6,265	20,835
186.17	6,272	20,897
186.18	6,279	20,960
186.19	6,286	21,023
186.20	6,293	21,086
186.21	6,300	21,149
186.22	6,307	21,212
186.23	6,314	21,275
186.24	6,321	21,338
186.25	6,328	21,401
186.26	6,334	21,464
186.27	6,341	21,528
186.28	6,348	21,591
186.29	6,355	21,655
186.30	6,362	21,718
186.31	6,369	21,782
186.32	6,376	21,846
186.33	6,383	21,910
186.34	6,390	21,973
186.35	6,397	22,037
186.36	6,404	22,101
186.37	6,411	22,166
186.38	6,418	22,230
186.39	6,425	22,294
186.40	6,432	22,358
186.41	6,439	22,423
186.42	6,446	22,487
186.43	6,453	22,551
186.44	6,460	22,616
186.45	6,467	22,681
186.46	6,474	22,745
186.47	6,481	22,810
186.48	6,488	22,875
186.49	6,495	22,940
186.50	**6,502**	**23,005**

Summary for Pond B-42: Basin #42

Inflow Area = 0.777 ac, 38.35% Impervious, Inflow Depth = 3.37" for Current 10 yr event
Inflow = 2.68 cfs @ 12.17 hrs, Volume= 0.218 af
Outflow = 0.13 cfs @ 14.45 hrs, Volume= 0.123 af, Atten= 95%, Lag= 136.4 min
Primary = 0.13 cfs @ 14.45 hrs, Volume= 0.123 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 183.36' @ 14.45 hrs Surf.Area= 3,313 sf Storage= 6,450 cf

Plug-Flow detention time= 471.6 min calculated for 0.123 af (57% of inflow)
Center-of-Mass det. time= 352.2 min (1,145.2 - 793.0)

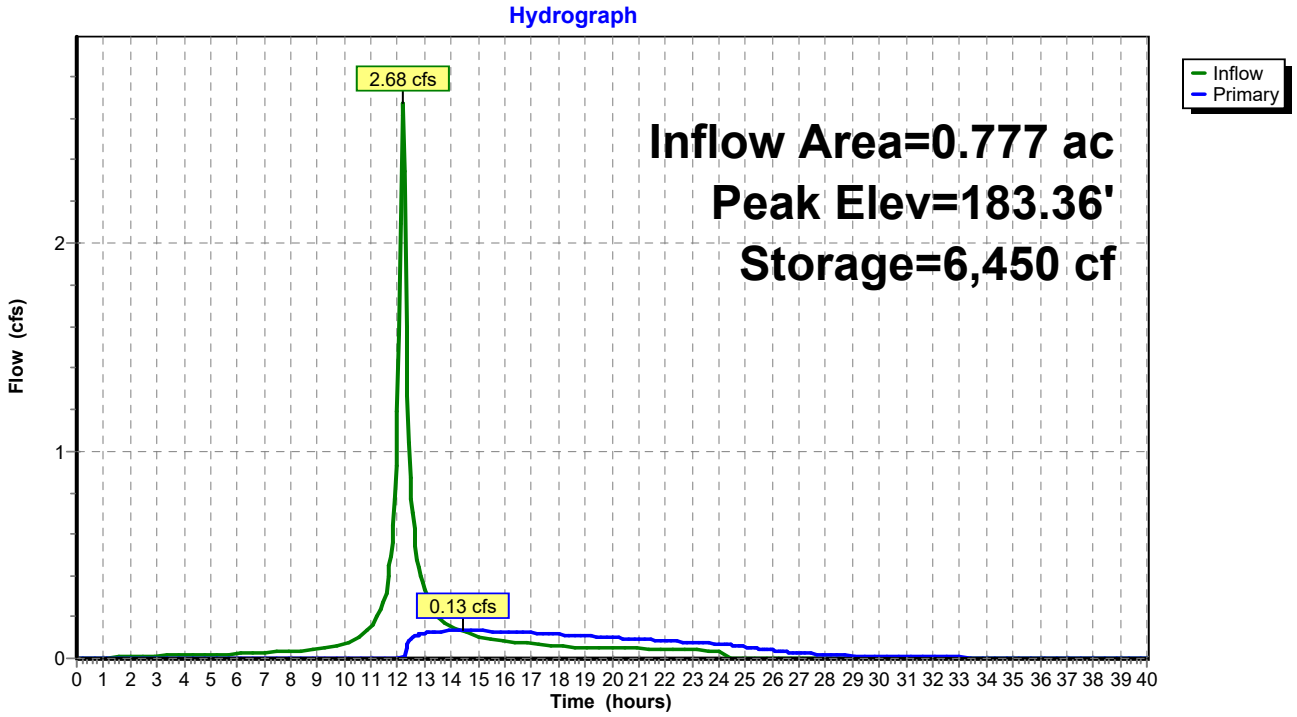
Volume	Invert	Avail.Storage	Storage Description
#1	180.96'	22,293 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
180.96	0	0	0
181.00	2,142	43	43
182.00	2,613	2,378	2,420
183.00	3,118	2,866	5,286
184.00	3,656	3,387	8,673
185.00	4,227	3,942	12,614
186.00	4,831	4,529	17,143
187.00	5,468	5,150	22,293

Device	Routing	Invert	Outlet Devices
#1	Primary	181.96'	**18.0" Round Culvert** L= 192.0' Ke= 0.500 Inlet / Outlet Invert= 181.96' / 181.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	182.60'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.01'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.99'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.13 cfs @ 14.45 hrs HW=183.36' (Free Discharge)
- **1=Culvert** (Passes 0.13 cfs of 5.86 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.13 cfs @ 3.91 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-42: Basin #42



Stage-Discharge for Pond B-42: Basin #42

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.96	0.00	181.48	0.00	182.00	0.00	182.52	0.00
180.97	0.00	181.49	0.00	182.01	0.00	182.53	0.00
180.98	0.00	181.50	0.00	182.02	0.00	182.54	0.00
180.99	0.00	181.51	0.00	182.03	0.00	182.55	0.00
181.00	0.00	181.52	0.00	182.04	0.00	182.56	0.00
181.01	0.00	181.53	0.00	182.05	0.00	182.57	0.00
181.02	0.00	181.54	0.00	182.06	0.00	182.58	0.00
181.03	0.00	181.55	0.00	182.07	0.00	182.59	0.00
181.04	0.00	181.56	0.00	182.08	0.00	182.60	0.00
181.05	0.00	181.57	0.00	182.09	0.00	182.61	0.00
181.06	0.00	181.58	0.00	182.10	0.00	182.62	0.00
181.07	0.00	181.59	0.00	182.11	0.00	182.63	0.00
181.08	0.00	181.60	0.00	182.12	0.00	182.64	0.00
181.09	0.00	181.61	0.00	182.13	0.00	182.65	0.00
181.10	0.00	181.62	0.00	182.14	0.00	182.66	0.01
181.11	0.00	181.63	0.00	182.15	0.00	182.67	0.01
181.12	0.00	181.64	0.00	182.16	0.00	182.68	0.01
181.13	0.00	181.65	0.00	182.17	0.00	182.69	0.01
181.14	0.00	181.66	0.00	182.18	0.00	182.70	0.02
181.15	0.00	181.67	0.00	182.19	0.00	182.71	0.02
181.16	0.00	181.68	0.00	182.20	0.00	182.72	0.02
181.17	0.00	181.69	0.00	182.21	0.00	182.73	0.03
181.18	0.00	181.70	0.00	182.22	0.00	182.74	0.03
181.19	0.00	181.71	0.00	182.23	0.00	182.75	0.03
181.20	0.00	181.72	0.00	182.24	0.00	182.76	0.04
181.21	0.00	181.73	0.00	182.25	0.00	182.77	0.04
181.22	0.00	181.74	0.00	182.26	0.00	182.78	0.05
181.23	0.00	181.75	0.00	182.27	0.00	182.79	0.05
181.24	0.00	181.76	0.00	182.28	0.00	182.80	0.05
181.25	0.00	181.77	0.00	182.29	0.00	182.81	0.05
181.26	0.00	181.78	0.00	182.30	0.00	182.82	0.06
181.27	0.00	181.79	0.00	182.31	0.00	182.83	0.06
181.28	0.00	181.80	0.00	182.32	0.00	182.84	0.06
181.29	0.00	181.81	0.00	182.33	0.00	182.85	0.06
181.30	0.00	181.82	0.00	182.34	0.00	182.86	0.06
181.31	0.00	181.83	0.00	182.35	0.00	182.87	0.07
181.32	0.00	181.84	0.00	182.36	0.00	182.88	0.07
181.33	0.00	181.85	0.00	182.37	0.00	182.89	0.07
181.34	0.00	181.86	0.00	182.38	0.00	182.90	0.07
181.35	0.00	181.87	0.00	182.39	0.00	182.91	0.07
181.36	0.00	181.88	0.00	182.40	0.00	182.92	0.08
181.37	0.00	181.89	0.00	182.41	0.00	182.93	0.08
181.38	0.00	181.90	0.00	182.42	0.00	182.94	0.08
181.39	0.00	181.91	0.00	182.43	0.00	182.95	0.08
181.40	0.00	181.92	0.00	182.44	0.00	182.96	0.08
181.41	0.00	181.93	0.00	182.45	0.00	182.97	0.08
181.42	0.00	181.94	0.00	182.46	0.00	182.98	0.09
181.43	0.00	181.95	0.00	182.47	0.00	182.99	0.09
181.44	0.00	181.96	0.00	182.48	0.00	183.00	0.09
181.45	0.00	181.97	0.00	182.49	0.00	183.01	0.09
181.46	0.00	181.98	0.00	182.50	0.00	183.02	0.09
181.47	0.00	181.99	0.00	182.51	0.00	183.03	0.09

Stage-Discharge for Pond B-42: Basin #42 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.04	0.10	183.56	0.15	184.08	0.43	184.60	5.98
183.05	0.10	183.57	0.15	184.09	0.49	184.61	6.12
183.06	0.10	183.58	0.15	184.10	0.55	184.62	6.27
183.07	0.10	183.59	0.15	184.11	0.61	184.63	6.42
183.08	0.10	183.60	0.16	184.12	0.67	184.64	6.56
183.09	0.10	183.61	0.16	184.13	0.74	184.65	6.71
183.10	0.10	183.62	0.16	184.14	0.81	184.66	6.86
183.11	0.10	183.63	0.16	184.15	0.88	184.67	7.01
183.12	0.11	183.64	0.16	184.16	0.95	184.68	7.16
183.13	0.11	183.65	0.16	184.17	1.03	184.69	7.32
183.14	0.11	183.66	0.16	184.18	1.11	184.70	7.47
183.15	0.11	183.67	0.16	184.19	1.19	184.71	7.62
183.16	0.11	183.68	0.16	184.20	1.27	184.72	7.78
183.17	0.11	183.69	0.16	184.21	1.36	184.73	7.94
183.18	0.11	183.70	0.16	184.22	1.45	184.74	8.09
183.19	0.11	183.71	0.16	184.23	1.54	184.75	8.25
183.20	0.12	183.72	0.17	184.24	1.63	184.76	8.41
183.21	0.12	183.73	0.17	184.25	1.72	184.77	8.57
183.22	0.12	183.74	0.17	184.26	1.82	184.78	8.73
183.23	0.12	183.75	0.17	184.27	1.92	184.79	8.90
183.24	0.12	183.76	0.17	184.28	2.02	184.80	9.06
183.25	0.12	183.77	0.17	184.29	2.12	184.81	9.22
183.26	0.12	183.78	0.17	184.30	2.22	184.82	9.39
183.27	0.12	183.79	0.17	184.31	2.33	184.83	9.55
183.28	0.12	183.80	0.17	184.32	2.43	184.84	9.69
183.29	0.13	183.81	0.17	184.33	2.54	184.85	9.71
183.30	0.13	183.82	0.17	184.34	2.65	184.86	9.73
183.31	0.13	183.83	0.17	184.35	2.76	184.87	9.75
183.32	0.13	183.84	0.17	184.36	2.87	184.88	9.77
183.33	0.13	183.85	0.18	184.37	2.99	184.89	9.79
183.34	0.13	183.86	0.18	184.38	3.10	184.90	9.81
183.35	0.13	183.87	0.18	184.39	3.22	184.91	9.83
183.36	0.13	183.88	0.18	184.40	3.34	184.92	9.85
183.37	0.13	183.89	0.18	184.41	3.46	184.93	9.88
183.38	0.13	183.90	0.18	184.42	3.58	184.94	9.90
183.39	0.14	183.91	0.18	184.43	3.70	184.95	9.92
183.40	0.14	183.92	0.18	184.44	3.83	184.96	9.94
183.41	0.14	183.93	0.18	184.45	3.95	184.97	9.96
183.42	0.14	183.94	0.18	184.46	4.08	184.98	9.98
183.43	0.14	183.95	0.18	184.47	4.21	184.99	10.00
183.44	0.14	183.96	0.18	184.48	4.33	185.00	10.02
183.45	0.14	183.97	0.18	184.49	4.46	185.01	10.04
183.46	0.14	183.98	0.19	184.50	4.60	185.02	10.06
183.47	0.14	183.99	0.19	184.51	4.73	185.03	10.08
183.48	0.14	184.00	0.19	184.52	4.86	185.04	10.10
183.49	0.15	184.01	0.19	184.53	5.00	185.05	10.12
183.50	0.15	184.02	0.20	184.54	5.14	185.06	10.14
183.51	0.15	184.03	0.23	184.55	5.27	185.07	10.16
183.52	0.15	184.04	0.26	184.56	5.41	185.08	10.18
183.53	0.15	184.05	0.29	184.57	5.55	185.09	10.20
183.54	0.15	184.06	0.34	184.58	5.69	185.10	10.21
183.55	0.15	184.07	0.38	184.59	5.84	185.11	10.23

Stage-Discharge for Pond B-42: Basin #42 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.12	10.25	185.64	11.23	186.16	20.39	186.68	92.62
185.13	10.27	185.65	11.24	186.17	21.15	186.69	94.39
185.14	10.29	185.66	11.26	186.18	21.93	186.70	96.16
185.15	10.31	185.67	11.28	186.19	22.73	186.71	97.95
185.16	10.33	185.68	11.30	186.20	23.60	186.72	99.75
185.17	10.35	185.69	11.31	186.21	24.49	186.73	101.56
185.18	10.37	185.70	11.33	186.22	25.40	186.74	103.38
185.19	10.39	185.71	11.35	186.23	26.34	186.75	105.22
185.20	10.41	185.72	11.37	186.24	27.30	186.76	107.07
185.21	10.43	185.73	11.39	186.25	28.29	186.77	108.93
185.22	10.45	185.74	11.40	186.26	29.31	186.78	110.80
185.23	10.47	185.75	11.42	186.27	30.35	186.79	112.69
185.24	10.49	185.76	11.44	186.28	31.41	186.80	114.62
185.25	10.51	185.77	11.46	186.29	32.50	186.81	116.57
185.26	10.52	185.78	11.47	186.30	33.61	186.82	118.53
185.27	10.54	185.79	11.49	186.31	34.75	186.83	120.50
185.28	10.56	185.80	11.51	186.32	35.91	186.84	122.49
185.29	10.58	185.81	11.53	186.33	37.10	186.85	124.49
185.30	10.60	185.82	11.54	186.34	38.31	186.86	126.51
185.31	10.62	185.83	11.56	186.35	39.54	186.87	128.53
185.32	10.64	185.84	11.58	186.36	40.80	186.88	130.57
185.33	10.66	185.85	11.59	186.37	42.09	186.89	132.63
185.34	10.68	185.86	11.61	186.38	43.39	186.90	134.69
185.35	10.69	185.87	11.63	186.39	44.72	186.91	136.77
185.36	10.71	185.88	11.65	186.40	46.11	186.92	138.86
185.37	10.73	185.89	11.66	186.41	47.51	186.93	140.97
185.38	10.75	185.90	11.68	186.42	48.95	186.94	143.08
185.39	10.77	185.91	11.70	186.43	50.41	186.95	145.21
185.40	10.79	185.92	11.72	186.44	51.89	186.96	147.35
185.41	10.81	185.93	11.73	186.45	53.41	186.97	149.51
185.42	10.83	185.94	11.75	186.46	54.95	186.98	151.68
185.43	10.84	185.95	11.77	186.47	56.51	186.99	153.86
185.44	10.86	185.96	11.78	186.48	58.10	187.00	**155.99**
185.45	10.88	185.97	11.80	186.49	59.72		
185.46	10.90	185.98	11.82	186.50	61.36		
185.47	10.92	185.99	11.83	186.51	63.03		
185.48	10.94	186.00	11.97	186.52	64.73		
185.49	10.95	186.01	12.20	186.53	66.45		
185.50	10.97	186.02	12.49	186.54	68.21		
185.51	10.99	186.03	12.84	186.55	69.98		
185.52	11.01	186.04	13.23	186.56	71.79		
185.53	11.03	186.05	13.66	186.57	73.62		
185.54	11.05	186.06	14.13	186.58	75.48		
185.55	11.06	186.07	14.63	186.59	77.36		
185.56	11.08	186.08	15.16	186.60	79.00		
185.57	11.10	186.09	15.72	186.61	80.66		
185.58	11.12	186.10	16.31	186.62	82.33		
185.59	11.14	186.11	16.93	186.63	84.01		
185.60	11.15	186.12	17.57	186.64	85.71		
185.61	11.17	186.13	18.24	186.65	87.42		
185.62	11.19	186.14	18.93	186.66	89.14		
185.63	11.21	186.15	19.65	186.67	90.88		

Stage-Area-Storage for Pond B-42: Basin #42

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.96	0	0
180.97	535	3
180.98	1,071	11
180.99	1,607	24
181.00	2,142	43
181.01	2,147	64
181.02	2,151	86
181.03	2,156	107
181.04	2,161	129
181.05	2,166	151
181.06	2,170	172
181.07	2,175	194
181.08	2,180	216
181.09	2,184	238
181.10	2,189	259
181.11	2,194	281
181.12	2,199	303
181.13	2,203	325
181.14	2,208	347
181.15	2,213	369
181.16	2,217	392
181.17	2,222	414
181.18	2,227	436
181.19	2,231	458
181.20	2,236	481
181.21	2,241	503
181.22	2,246	525
181.23	2,250	548
181.24	2,255	570
181.25	2,260	593
181.26	2,264	616
181.27	2,269	638
181.28	2,274	661
181.29	2,279	684
181.30	2,283	707
181.31	2,288	729
181.32	2,293	752
181.33	2,297	775
181.34	2,302	798
181.35	2,307	821
181.36	2,312	844
181.37	2,316	868
181.38	2,321	891
181.39	2,326	914
181.40	2,330	937
181.41	2,335	961
181.42	2,340	984
181.43	2,345	1,007
181.44	2,349	1,031
181.45	2,354	1,054
181.46	2,359	1,078
181.47	2,363	1,102
181.48	2,368	1,125
181.49	2,373	1,149
181.50	2,378	1,173
181.51	2,382	1,197
181.52	2,387	1,220
181.53	2,392	1,244
181.54	2,396	1,268
181.55	2,401	1,292
181.56	2,406	1,316
181.57	2,410	1,340
181.58	2,415	1,364
181.59	2,420	1,389
181.60	2,425	1,413
181.61	2,429	1,437
181.62	2,434	1,461
181.63	2,439	1,486
181.64	2,443	1,510
181.65	2,448	1,535
181.66	2,453	1,559
181.67	2,458	1,584
181.68	2,462	1,608
181.69	2,467	1,633
181.70	2,472	1,658
181.71	2,476	1,682
181.72	2,481	1,707
181.73	2,486	1,732
181.74	2,491	1,757
181.75	2,495	1,782
181.76	2,500	1,807
181.77	2,505	1,832
181.78	2,509	1,857
181.79	2,514	1,882
181.80	2,519	1,907
181.81	2,524	1,932
181.82	2,528	1,958
181.83	2,533	1,983
181.84	2,538	2,008
181.85	2,542	2,034
181.86	2,547	2,059
181.87	2,552	2,085
181.88	2,556	2,110
181.89	2,561	2,136
181.90	2,566	2,161
181.91	2,571	2,187
181.92	2,575	2,213
181.93	2,580	2,239
181.94	2,585	2,264
181.95	2,589	2,290
181.96	2,594	2,316
181.97	2,599	2,342
181.98	2,604	2,368
181.99	2,608	2,394

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.00	2,613	2,420	182.52	2,876	3,847
182.01	2,618	2,446	182.53	2,881	3,876
182.02	2,623	2,473	182.54	2,886	3,905
182.03	2,628	2,499	182.55	2,891	3,934
182.04	2,633	2,525	182.56	2,896	3,963
182.05	2,638	2,552	182.57	2,901	3,992
182.06	2,643	2,578	182.58	2,906	4,021
182.07	2,648	2,604	182.59	2,911	4,050
182.08	2,653	2,631	182.60	2,916	4,079
182.09	2,658	2,658	182.61	2,921	4,108
182.10	2,663	2,684	182.62	2,926	4,137
182.11	2,669	2,711	182.63	2,931	4,167
182.12	2,674	2,738	182.64	2,936	4,196
182.13	2,679	2,764	182.65	2,941	4,225
182.14	2,684	2,791	182.66	2,946	4,255
182.15	2,689	2,818	182.67	2,951	4,284
182.16	2,694	2,845	182.68	2,956	4,314
182.17	2,699	2,872	182.69	2,961	4,344
182.18	2,704	2,899	182.70	2,967	4,373
182.19	2,709	2,926	182.71	2,972	4,403
182.20	2,714	2,953	182.72	2,977	4,433
182.21	2,719	2,980	182.73	2,982	4,462
182.22	2,724	3,007	182.74	2,987	4,492
182.23	2,729	3,035	182.75	2,992	4,522
182.24	2,734	3,062	182.76	2,997	4,552
182.25	2,739	3,089	182.77	3,002	4,582
182.26	2,744	3,117	182.78	3,007	4,612
182.27	2,749	3,144	182.79	3,012	4,642
182.28	2,754	3,172	182.80	3,017	4,672
182.29	2,759	3,199	182.81	3,022	4,703
182.30	2,765	3,227	182.82	3,027	4,733
182.31	2,770	3,255	182.83	3,032	4,763
182.32	2,775	3,282	182.84	3,037	4,793
182.33	2,780	3,310	182.85	3,042	4,824
182.34	2,785	3,338	182.86	3,047	4,854
182.35	2,790	3,366	182.87	3,052	4,885
182.36	2,795	3,394	182.88	3,057	4,915
182.37	2,800	3,422	182.89	3,062	4,946
182.38	2,805	3,450	182.90	3,068	4,977
182.39	2,810	3,478	182.91	3,073	5,007
182.40	2,815	3,506	182.92	3,078	5,038
182.41	2,820	3,534	182.93	3,083	5,069
182.42	2,825	3,562	182.94	3,088	5,100
182.43	2,830	3,591	182.95	3,093	5,131
182.44	2,835	3,619	182.96	3,098	5,162
182.45	2,840	3,647	182.97	3,103	5,193
182.46	2,845	3,676	182.98	3,108	5,224
182.47	2,850	3,704	182.99	3,113	5,255
182.48	2,855	3,733	183.00	3,118	5,286
182.49	2,860	3,761	183.01	3,123	5,317
182.50	2,866	3,790	183.02	3,129	5,348
182.51	2,871	3,819	183.03	3,134	5,380

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.04	3,140	5,411	183.56	3,419	7,116
183.05	3,145	5,442	183.57	3,425	7,150
183.06	3,150	5,474	183.58	3,430	7,185
183.07	3,156	5,505	183.59	3,435	7,219
183.08	3,161	5,537	183.60	3,441	7,253
183.09	3,166	5,569	183.61	3,446	7,288
183.10	3,172	5,600	183.62	3,452	7,322
183.11	3,177	5,632	183.63	3,457	7,357
183.12	3,183	5,664	183.64	3,462	7,392
183.13	3,188	5,696	183.65	3,468	7,426
183.14	3,193	5,728	183.66	3,473	7,461
183.15	3,199	5,760	183.67	3,478	7,496
183.16	3,204	5,792	183.68	3,484	7,530
183.17	3,209	5,824	183.69	3,489	7,565
183.18	3,215	5,856	183.70	3,495	7,600
183.19	3,220	5,888	183.71	3,500	7,635
183.20	3,226	5,920	183.72	3,505	7,670
183.21	3,231	5,952	183.73	3,511	7,705
183.22	3,236	5,985	183.74	3,516	7,740
183.23	3,242	6,017	183.75	3,522	7,776
183.24	3,247	6,050	183.76	3,527	7,811
183.25	3,253	6,082	183.77	3,532	7,846
183.26	3,258	6,115	183.78	3,538	7,882
183.27	3,263	6,147	183.79	3,543	7,917
183.28	3,269	6,180	183.80	3,548	7,952
183.29	3,274	6,213	183.81	3,554	7,988
183.30	3,279	6,245	183.82	3,559	8,023
183.31	3,285	6,278	183.83	3,565	8,059
183.32	3,290	6,311	183.84	3,570	8,095
183.33	3,296	6,344	183.85	3,575	8,130
183.34	3,301	6,377	183.86	3,581	8,166
183.35	3,306	6,410	183.87	3,586	8,202
183.36	3,312	6,443	183.88	3,591	8,238
183.37	3,317	6,476	183.89	3,597	8,274
183.38	3,322	6,510	183.90	3,602	8,310
183.39	3,328	6,543	183.91	3,608	8,346
183.40	3,333	6,576	183.92	3,613	8,382
183.41	3,339	6,609	183.93	3,618	8,418
183.42	3,344	6,643	183.94	3,624	8,454
183.43	3,349	6,676	183.95	3,629	8,491
183.44	3,355	6,710	183.96	3,634	8,527
183.45	3,360	6,743	183.97	3,640	8,563
183.46	3,365	6,777	183.98	3,645	8,600
183.47	3,371	6,811	183.99	3,651	8,636
183.48	3,376	6,844	184.00	3,656	8,673
183.49	3,382	6,878	184.01	3,662	8,709
183.50	3,387	6,912	184.02	3,667	8,746
183.51	3,392	6,946	184.03	3,673	8,783
183.52	3,398	6,980	184.04	3,679	8,820
183.53	3,403	7,014	184.05	3,685	8,856
183.54	3,409	7,048	184.06	3,690	8,893
183.55	3,414	7,082	184.07	3,696	8,930

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.08	3,702	8,967	184.60	3,999	10,969
184.09	3,707	9,004	184.61	4,004	11,009
184.10	3,713	9,041	184.62	4,010	11,049
184.11	3,719	9,078	184.63	4,016	11,089
184.12	3,725	9,116	184.64	4,021	11,130
184.13	3,730	9,153	184.65	4,027	11,170
184.14	3,736	9,190	184.66	4,033	11,210
184.15	3,742	9,228	184.67	4,039	11,251
184.16	3,747	9,265	184.68	4,044	11,291
184.17	3,753	9,303	184.69	4,050	11,331
184.18	3,759	9,340	184.70	4,056	11,372
184.19	3,764	9,378	184.71	4,061	11,413
184.20	3,770	9,415	184.72	4,067	11,453
184.21	3,776	9,453	184.73	4,073	11,494
184.22	3,782	9,491	184.74	4,079	11,535
184.23	3,787	9,529	184.75	4,084	11,575
184.24	3,793	9,567	184.76	4,090	11,616
184.25	3,799	9,605	184.77	4,096	11,657
184.26	3,804	9,643	184.78	4,101	11,698
184.27	3,810	9,681	184.79	4,107	11,739
184.28	3,816	9,719	184.80	4,113	11,780
184.29	3,822	9,757	184.81	4,119	11,822
184.30	3,827	9,795	184.82	4,124	11,863
184.31	3,833	9,834	184.83	4,130	11,904
184.32	3,839	9,872	184.84	4,136	11,945
184.33	3,844	9,910	184.85	4,141	11,987
184.34	3,850	9,949	184.86	4,147	12,028
184.35	3,856	9,987	184.87	4,153	12,070
184.36	3,862	10,026	184.88	4,158	12,111
184.37	3,867	10,065	184.89	4,164	12,153
184.38	3,873	10,103	184.90	4,170	12,194
184.39	3,879	10,142	184.91	4,176	12,236
184.40	3,884	10,181	184.92	4,181	12,278
184.41	3,890	10,220	184.93	4,187	12,320
184.42	3,896	10,259	184.94	4,193	12,362
184.43	3,902	10,298	184.95	4,198	12,404
184.44	3,907	10,337	184.96	4,204	12,446
184.45	3,913	10,376	184.97	4,210	12,488
184.46	3,919	10,415	184.98	4,216	12,530
184.47	3,924	10,454	184.99	4,221	12,572
184.48	3,930	10,493	185.00	4,227	12,614
184.49	3,936	10,533	185.01	4,233	12,657
184.50	3,942	10,572	185.02	4,239	12,699
184.51	3,947	10,612	185.03	4,245	12,741
184.52	3,953	10,651	185.04	4,251	12,784
184.53	3,959	10,691	185.05	4,257	12,826
184.54	3,964	10,730	185.06	4,263	12,869
184.55	3,970	10,770	185.07	4,269	12,912
184.56	3,976	10,810	185.08	4,275	12,954
184.57	3,981	10,850	185.09	4,281	12,997
184.58	3,987	10,889	185.10	4,287	13,040
184.59	3,993	10,929	185.11	4,293	13,083

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.12	4,299	13,126	185.64	4,614	15,443
185.13	4,306	13,169	185.65	4,620	15,489
185.14	4,312	13,212	185.66	4,626	15,536
185.15	4,318	13,255	185.67	4,632	15,582
185.16	4,324	13,298	185.68	4,638	15,628
185.17	4,330	13,342	185.69	4,644	15,675
185.18	4,336	13,385	185.70	4,650	15,721
185.19	4,342	13,428	185.71	4,656	15,768
185.20	4,348	13,472	185.72	4,662	15,814
185.21	4,354	13,515	185.73	4,668	15,861
185.22	4,360	13,559	185.74	4,674	15,908
185.23	4,366	13,603	185.75	4,680	15,954
185.24	4,372	13,646	185.76	4,686	16,001
185.25	4,378	13,690	185.77	4,692	16,048
185.26	4,384	13,734	185.78	4,698	16,095
185.27	4,390	13,778	185.79	4,704	16,142
185.28	4,396	13,822	185.80	4,710	16,189
185.29	4,402	13,866	185.81	4,716	16,236
185.30	4,408	13,910	185.82	4,722	16,284
185.31	4,414	13,954	185.83	4,728	16,331
185.32	4,420	13,998	185.84	4,734	16,378
185.33	4,426	14,042	185.85	4,740	16,425
185.34	4,432	14,086	185.86	4,746	16,473
185.35	4,438	14,131	185.87	4,752	16,520
185.36	4,444	14,175	185.88	4,759	16,568
185.37	4,450	14,220	185.89	4,765	16,616
185.38	4,457	14,264	185.90	4,771	16,663
185.39	4,463	14,309	185.91	4,777	16,711
185.40	4,469	14,353	185.92	4,783	16,759
185.41	4,475	14,398	185.93	4,789	16,807
185.42	4,481	14,443	185.94	4,795	16,855
185.43	4,487	14,488	185.95	4,801	16,903
185.44	4,493	14,533	185.96	4,807	16,951
185.45	4,499	14,578	185.97	4,813	16,999
185.46	4,505	14,623	185.98	4,819	17,047
185.47	4,511	14,668	185.99	4,825	17,095
185.48	4,517	14,713	186.00	4,831	17,143
185.49	4,523	14,758	186.01	4,837	17,192
185.50	4,529	14,803	186.02	4,844	17,240
185.51	4,535	14,849	186.03	4,850	17,289
185.52	4,541	14,894	186.04	4,856	17,337
185.53	4,547	14,939	186.05	4,863	17,386
185.54	4,553	14,985	186.06	4,869	17,434
185.55	4,559	15,031	186.07	4,876	17,483
185.56	4,565	15,076	186.08	4,882	17,532
185.57	4,571	15,122	186.09	4,888	17,581
185.58	4,577	15,168	186.10	4,895	17,630
185.59	4,583	15,213	186.11	4,901	17,679
185.60	4,589	15,259	186.12	4,907	17,728
185.61	4,595	15,305	186.13	4,914	17,777
185.62	4,601	15,351	186.14	4,920	17,826
185.63	4,608	15,397	186.15	4,927	17,875

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.16	4,933	17,924
186.17	4,939	17,974
186.18	4,946	18,023
186.19	4,952	18,073
186.20	4,958	18,122
186.21	4,965	18,172
186.22	4,971	18,222
186.23	4,978	18,271
186.24	4,984	18,321
186.25	4,990	18,371
186.26	4,997	18,421
186.27	5,003	18,471
186.28	5,009	18,521
186.29	5,016	18,571
186.30	5,022	18,621
186.31	5,028	18,672
186.32	5,035	18,722
186.33	5,041	18,772
186.34	5,048	18,823
186.35	5,054	18,873
186.36	5,060	18,924
186.37	5,067	18,974
186.38	5,073	19,025
186.39	5,079	19,076
186.40	5,086	19,127
186.41	5,092	19,178
186.42	5,099	19,229
186.43	5,105	19,280
186.44	5,111	19,331
186.45	5,118	19,382
186.46	5,124	19,433
186.47	5,130	19,484
186.48	5,137	19,536
186.49	5,143	19,587
186.50	5,150	19,638
186.51	5,156	19,690
186.52	5,162	19,742
186.53	5,169	19,793
186.54	5,175	19,845
186.55	5,181	19,897
186.56	5,188	19,949
186.57	5,194	20,000
186.58	5,200	20,052
186.59	5,207	20,104
186.60	5,213	20,157
186.61	5,220	20,209
186.62	5,226	20,261
186.63	5,232	20,313
186.64	5,239	20,366
186.65	5,245	20,418
186.66	5,251	20,471
186.67	5,258	20,523
186.68	5,264	20,576
186.69	5,271	20,628
186.70	5,277	20,681
186.71	5,283	20,734
186.72	5,290	20,787
186.73	5,296	20,840
186.74	5,302	20,893
186.75	5,309	20,946
186.76	5,315	20,999
186.77	5,321	21,052
186.78	5,328	21,105
186.79	5,334	21,159
186.80	5,341	21,212
186.81	5,347	21,265
186.82	5,353	21,319
186.83	5,360	21,372
186.84	5,366	21,426
186.85	5,372	21,480
186.86	5,379	21,534
186.87	5,385	21,587
186.88	5,392	21,641
186.89	5,398	21,695
186.90	5,404	21,749
186.91	5,411	21,803
186.92	5,417	21,857
186.93	5,423	21,912
186.94	5,430	21,966
186.95	5,436	22,020
186.96	5,443	22,075
186.97	5,449	22,129
186.98	5,455	22,184
186.99	5,462	22,238
187.00	**5,468**	**22,293**

Summary for Pond B-43: Basin #43

Inflow Area = 2.712 ac, 33.89% Impervious, Inflow Depth = 3.26" for Current 10 yr event
Inflow = 9.11 cfs @ 12.17 hrs, Volume= 0.738 af
Outflow = 5.57 cfs @ 12.31 hrs, Volume= 0.626 af, Atten= 39%, Lag= 7.9 min
Primary = 5.57 cfs @ 12.31 hrs, Volume= 0.626 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 179.14' @ 12.31 hrs Surf.Area= 6,331 sf Storage= 12,956 cf

Plug-Flow detention time= 306.4 min calculated for 0.626 af (85% of inflow)
Center-of-Mass det. time= 238.0 min (1,035.5 - 797.4)

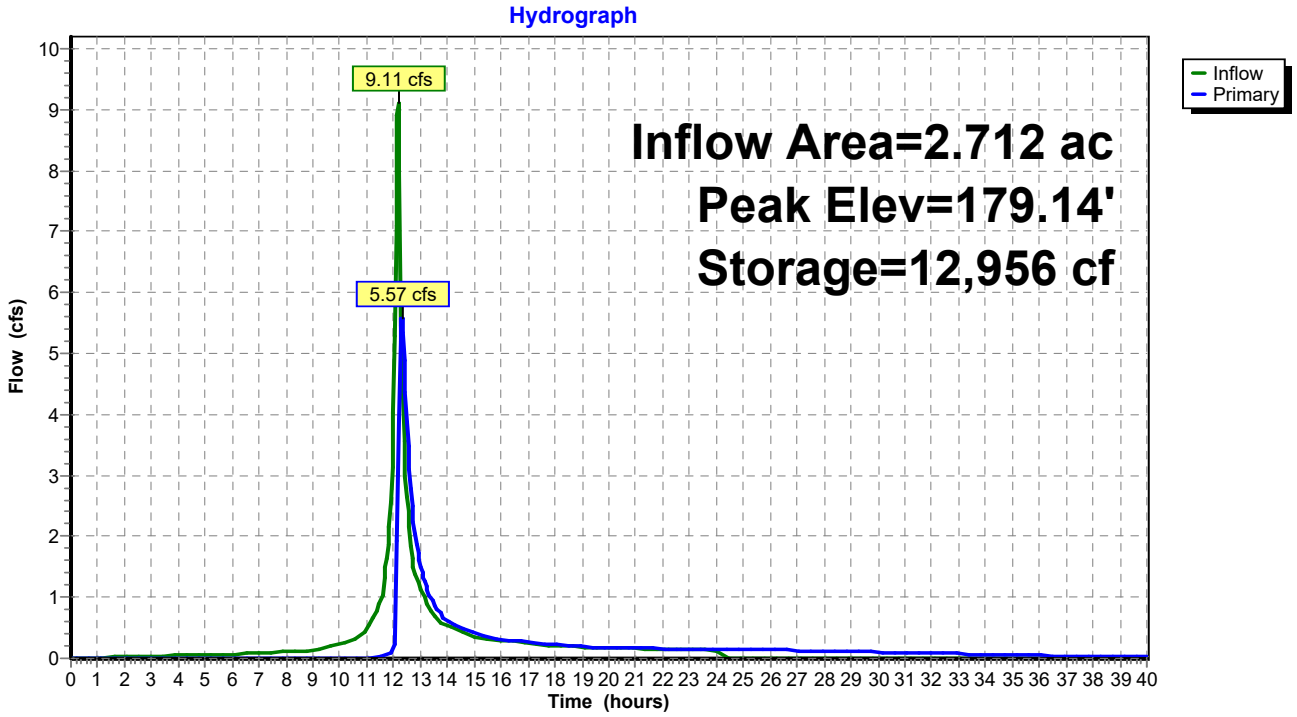
Volume	Invert	Avail.Storage	Storage Description
#1	176.35'	26,392 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
176.35	0	0	0
177.00	4,447	1,445	1,445
178.00	5,292	4,870	6,315
179.00	6,194	5,743	12,058
180.00	7,153	6,674	18,731
181.00	8,168	7,661	26,392

Device	Routing	Invert	Outlet Devices
#1	Primary	176.30'	**18.0" Round Culvert** L= 200.0' Ke= 0.500 Inlet / Outlet Invert= 176.30' / 166.10' S= 0.0510 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	177.62'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	178.58'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	180.00'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=5.54 cfs @ 12.31 hrs HW=179.14' (Free Discharge)
- **1=Culvert** (Passes 5.54 cfs of 12.30 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.20 cfs @ 5.73 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 5.35 cfs @ 2.45 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-43: Basin #43



Stage-Discharge for Pond B-43: Basin #43

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
176.35	0.00	176.87	0.00	177.39	0.00	177.91	0.07
176.36	0.00	176.88	0.00	177.40	0.00	177.92	0.07
176.37	0.00	176.89	0.00	177.41	0.00	177.93	0.07
176.38	0.00	176.90	0.00	177.42	0.00	177.94	0.08
176.39	0.00	176.91	0.00	177.43	0.00	177.95	0.08
176.40	0.00	176.92	0.00	177.44	0.00	177.96	0.08
176.41	0.00	176.93	0.00	177.45	0.00	177.97	0.08
176.42	0.00	176.94	0.00	177.46	0.00	177.98	0.08
176.43	0.00	176.95	0.00	177.47	0.00	177.99	0.08
176.44	0.00	176.96	0.00	177.48	0.00	178.00	0.09
176.45	0.00	176.97	0.00	177.49	0.00	178.01	0.09
176.46	0.00	176.98	0.00	177.50	0.00	178.02	0.09
176.47	0.00	176.99	0.00	177.51	0.00	178.03	0.09
176.48	0.00	177.00	0.00	177.52	0.00	178.04	0.09
176.49	0.00	177.01	0.00	177.53	0.00	178.05	0.09
176.50	0.00	177.02	0.00	177.54	0.00	178.06	0.10
176.51	0.00	177.03	0.00	177.55	0.00	178.07	0.10
176.52	0.00	177.04	0.00	177.56	0.00	178.08	0.10
176.53	0.00	177.05	0.00	177.57	0.00	178.09	0.10
176.54	0.00	177.06	0.00	177.58	0.00	178.10	0.10
176.55	0.00	177.07	0.00	177.59	0.00	178.11	0.10
176.56	0.00	177.08	0.00	177.60	0.00	178.12	0.10
176.57	0.00	177.09	0.00	177.61	0.00	178.13	0.10
176.58	0.00	177.10	0.00	177.62	0.00	178.14	0.11
176.59	0.00	177.11	0.00	177.63	0.00	178.15	0.11
176.60	0.00	177.12	0.00	177.64	0.00	178.16	0.11
176.61	0.00	177.13	0.00	177.65	0.00	178.17	0.11
176.62	0.00	177.14	0.00	177.66	0.00	178.18	0.11
176.63	0.00	177.15	0.00	177.67	0.00	178.19	0.11
176.64	0.00	177.16	0.00	177.68	0.01	178.20	0.11
176.65	0.00	177.17	0.00	177.69	0.01	178.21	0.11
176.66	0.00	177.18	0.00	177.70	0.01	178.22	0.12
176.67	0.00	177.19	0.00	177.71	0.01	178.23	0.12
176.68	0.00	177.20	0.00	177.72	0.02	178.24	0.12
176.69	0.00	177.21	0.00	177.73	0.02	178.25	0.12
176.70	0.00	177.22	0.00	177.74	0.02	178.26	0.12
176.71	0.00	177.23	0.00	177.75	0.03	178.27	0.12
176.72	0.00	177.24	0.00	177.76	0.03	178.28	0.12
176.73	0.00	177.25	0.00	177.77	0.03	178.29	0.12
176.74	0.00	177.26	0.00	177.78	0.04	178.30	0.12
176.75	0.00	177.27	0.00	177.79	0.04	178.31	0.13
176.76	0.00	177.28	0.00	177.80	0.05	178.32	0.13
176.77	0.00	177.29	0.00	177.81	0.05	178.33	0.13
176.78	0.00	177.30	0.00	177.82	0.05	178.34	0.13
176.79	0.00	177.31	0.00	177.83	0.05	178.35	0.13
176.80	0.00	177.32	0.00	177.84	0.06	178.36	0.13
176.81	0.00	177.33	0.00	177.85	0.06	178.37	0.13
176.82	0.00	177.34	0.00	177.86	0.06	178.38	0.13
176.83	0.00	177.35	0.00	177.87	0.06	178.39	0.13
176.84	0.00	177.36	0.00	177.88	0.06	178.40	0.13
176.85	0.00	177.37	0.00	177.89	0.07	178.41	0.14
176.86	0.00	177.38	0.00	177.90	0.07	178.42	0.14

Stage-Discharge for Pond B-43: Basin #43 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
178.43	0.14	178.95	3.07	179.47	10.71	179.99	14.59
178.44	0.14	178.96	3.19	179.48	10.88	180.00	14.61
178.45	0.14	178.97	3.31	179.49	11.06	180.01	14.76
178.46	0.14	178.98	3.43	179.50	11.23	180.02	14.99
178.47	0.14	178.99	3.55	179.51	11.40	180.03	15.30
178.48	0.14	179.00	3.67	179.52	11.58	180.04	15.65
178.49	0.14	179.01	3.79	179.53	11.76	180.05	16.05
178.50	0.14	179.02	3.92	179.54	11.93	180.06	16.49
178.51	0.15	179.03	4.05	179.55	12.11	180.07	16.96
178.52	0.15	179.04	4.18	179.56	12.29	180.08	17.47
178.53	0.15	179.05	4.30	179.57	12.47	180.09	18.01
178.54	0.15	179.06	4.44	179.58	12.65	180.10	18.58
178.55	0.15	179.07	4.57	179.59	12.83	180.11	19.18
178.56	0.15	179.08	4.70	179.60	13.01	180.12	19.80
178.57	0.15	179.09	4.83	179.61	13.19	180.13	20.45
178.58	0.15	179.10	4.97	179.62	13.38	180.14	21.13
178.59	0.17	179.11	5.11	179.63	13.56	180.15	21.83
178.60	0.19	179.12	5.24	179.64	13.69	180.16	22.55
178.61	0.22	179.13	5.38	179.65	13.72	180.17	23.30
178.62	0.26	179.14	5.52	179.66	13.75	180.18	24.07
178.63	0.30	179.15	5.66	179.67	13.77	180.19	24.86
178.64	0.35	179.16	5.81	179.68	13.80	180.20	25.67
178.65	0.40	179.17	5.95	179.69	13.83	180.21	26.54
178.66	0.45	179.18	6.09	179.70	13.85	180.22	27.43
178.67	0.51	179.19	6.24	179.71	13.88	180.23	28.36
178.68	0.57	179.20	6.39	179.72	13.90	180.24	29.30
178.69	0.64	179.21	6.53	179.73	13.93	180.25	30.27
178.70	0.70	179.22	6.68	179.74	13.96	180.26	31.27
178.71	0.77	179.23	6.83	179.75	13.98	180.27	32.29
178.72	0.84	179.24	6.98	179.76	14.01	180.28	33.34
178.73	0.92	179.25	7.14	179.77	14.03	180.29	34.41
178.74	1.00	179.26	7.29	179.78	14.06	180.30	35.51
178.75	1.08	179.27	7.44	179.79	14.08	180.31	36.63
178.76	1.16	179.28	7.60	179.80	14.11	180.32	37.77
178.77	1.24	179.29	7.75	179.81	14.14	180.33	38.94
178.78	1.33	179.30	7.91	179.82	14.16	180.34	40.14
178.79	1.41	179.31	8.07	179.83	14.19	180.35	41.35
178.80	1.51	179.32	8.23	179.84	14.21	180.36	42.60
178.81	1.60	179.33	8.39	179.85	14.24	180.37	43.86
178.82	1.69	179.34	8.55	179.86	14.26	180.38	45.15
178.83	1.79	179.35	8.71	179.87	14.29	180.39	46.47
178.84	1.88	179.36	8.87	179.88	14.31	180.40	47.80
178.85	1.98	179.37	9.03	179.89	14.34	180.41	49.19
178.86	2.09	179.38	9.20	179.90	14.36	180.42	50.61
178.87	2.19	179.39	9.36	179.91	14.39	180.43	52.05
178.88	2.29	179.40	9.53	179.92	14.41	180.44	53.52
178.89	2.40	179.41	9.69	179.93	14.44	180.45	55.01
178.90	2.51	179.42	9.86	179.94	14.46	180.46	56.53
178.91	2.62	179.43	10.03	179.95	14.49	180.47	58.07
178.92	2.73	179.44	10.20	179.96	14.51	180.48	59.65
178.93	2.84	179.45	10.37	179.97	14.54	180.49	61.24
178.94	2.96	179.46	10.54	179.98	14.56	180.50	62.87

Stage-Discharge for Pond B-43: Basin #43 (continued)

Elevation (feet)	Primary (cfs)
180.51	64.52
180.52	66.20
180.53	67.90
180.54	69.63
180.55	71.39
180.56	73.18
180.57	74.99
180.58	76.82
180.59	78.69
180.60	80.58
180.61	82.23
180.62	83.89
180.63	85.57
180.64	87.26
180.65	88.96
180.66	90.68
180.67	92.41
180.68	94.15
180.69	95.91
180.70	97.67
180.71	99.46
180.72	101.25
180.73	103.05
180.74	104.87
180.75	106.70
180.76	108.55
180.77	110.40
180.78	112.27
180.79	114.15
180.80	116.04
180.81	117.98
180.82	119.94
180.83	121.91
180.84	123.89
180.85	125.88
180.86	127.89
180.87	129.91
180.88	131.94
180.89	133.99
180.90	136.05
180.91	138.12
180.92	140.21
180.93	142.30
180.94	144.41
180.95	146.54
180.96	148.67
180.97	150.82
180.98	152.98
180.99	155.16
181.00	**157.34**

Stage-Area-Storage for Pond B-43: Basin #43

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
176.35	0	0	176.87	3,558	925
176.36	68	0	176.88	3,626	961
176.37	137	1	176.89	3,694	997
176.38	205	3	176.90	3,763	1,035
176.39	274	5	176.91	3,831	1,073
176.40	342	9	176.92	3,900	1,111
176.41	410	12	176.93	3,968	1,151
176.42	479	17	176.94	4,037	1,191
176.43	547	22	176.95	4,105	1,231
176.44	616	28	176.96	4,173	1,273
176.45	684	34	176.97	4,242	1,315
176.46	753	41	176.98	4,310	1,358
176.47	821	49	176.99	4,379	1,401
176.48	889	58	177.00	4,447	1,445
176.49	958	67	177.01	4,455	1,490
176.50	1,026	77	177.02	4,464	1,534
176.51	1,095	88	177.03	4,472	1,579
176.52	1,163	99	177.04	4,481	1,624
176.53	1,231	111	177.05	4,489	1,669
176.54	1,300	123	177.06	4,498	1,714
176.55	1,368	137	177.07	4,506	1,759
176.56	1,437	151	177.08	4,515	1,804
176.57	1,505	166	177.09	4,523	1,849
176.58	1,574	181	177.10	4,531	1,894
176.59	1,642	197	177.11	4,540	1,940
176.60	1,710	214	177.12	4,548	1,985
176.61	1,779	231	177.13	4,557	2,031
176.62	1,847	249	177.14	4,565	2,076
176.63	1,916	268	177.15	4,574	2,122
176.64	1,984	288	177.16	4,582	2,168
176.65	2,052	308	177.17	4,591	2,213
176.66	2,121	329	177.18	4,599	2,259
176.67	2,189	350	177.19	4,608	2,305
176.68	2,258	373	177.20	4,616	2,352
176.69	2,326	395	177.21	4,624	2,398
176.70	2,395	419	177.22	4,633	2,444
176.71	2,463	443	177.23	4,641	2,490
176.72	2,531	468	177.24	4,650	2,537
176.73	2,600	494	177.25	4,658	2,583
176.74	2,668	520	177.26	4,667	2,630
176.75	2,737	547	177.27	4,675	2,677
176.76	2,805	575	177.28	4,684	2,724
176.77	2,873	603	177.29	4,692	2,770
176.78	2,942	633	177.30	4,700	2,817
176.79	3,010	662	177.31	4,709	2,864
176.80	3,079	693	177.32	4,717	2,912
176.81	3,147	724	177.33	4,726	2,959
176.82	3,216	756	177.34	4,734	3,006
176.83	3,284	788	177.35	4,743	3,053
176.84	3,352	821	177.36	4,751	3,101
176.85	3,421	855	177.37	4,760	3,149
176.86	3,489	890	177.38	4,768	3,196

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
177.39	4,777	3,244	177.91	5,216	5,842
177.40	4,785	3,292	177.92	5,224	5,894
177.41	4,793	3,340	177.93	5,233	5,946
177.42	4,802	3,388	177.94	5,241	5,999
177.43	4,810	3,436	177.95	5,250	6,051
177.44	4,819	3,484	177.96	5,258	6,104
177.45	4,827	3,532	177.97	5,267	6,156
177.46	4,836	3,580	177.98	5,275	6,209
177.47	4,844	3,629	177.99	5,284	6,262
177.48	4,853	3,677	178.00	5,292	6,315
177.49	4,861	3,726	178.01	5,301	6,368
177.50	4,870	3,774	178.02	5,310	6,421
177.51	4,878	3,823	178.03	5,319	6,474
177.52	4,886	3,872	178.04	5,328	6,527
177.53	4,895	3,921	178.05	5,337	6,581
177.54	4,903	3,970	178.06	5,346	6,634
177.55	4,912	4,019	178.07	5,355	6,687
177.56	4,920	4,068	178.08	5,364	6,741
177.57	4,929	4,117	178.09	5,373	6,795
177.58	4,937	4,167	178.10	5,382	6,848
177.59	4,946	4,216	178.11	5,391	6,902
177.60	4,954	4,266	178.12	5,400	6,956
177.61	4,962	4,315	178.13	5,409	7,010
177.62	4,971	4,365	178.14	5,418	7,064
177.63	4,979	4,415	178.15	5,427	7,119
177.64	4,988	4,464	178.16	5,436	7,173
177.65	4,996	4,514	178.17	5,445	7,227
177.66	5,005	4,564	178.18	5,454	7,282
177.67	5,013	4,614	178.19	5,463	7,337
177.68	5,022	4,665	178.20	5,472	7,391
177.69	5,030	4,715	178.21	5,481	7,446
177.70	5,038	4,765	178.22	5,490	7,501
177.71	5,047	4,816	178.23	5,499	7,556
177.72	5,055	4,866	178.24	5,508	7,611
177.73	5,064	4,917	178.25	5,518	7,666
177.74	5,072	4,967	178.26	5,527	7,721
177.75	5,081	5,018	178.27	5,536	7,776
177.76	5,089	5,069	178.28	5,545	7,832
177.77	5,098	5,120	178.29	5,554	7,887
177.78	5,106	5,171	178.30	5,563	7,943
177.79	5,115	5,222	178.31	5,572	7,999
177.80	5,123	5,273	178.32	5,581	8,054
177.81	5,131	5,325	178.33	5,590	8,110
177.82	5,140	5,376	178.34	5,599	8,166
177.83	5,148	5,427	178.35	5,608	8,222
177.84	5,157	5,479	178.36	5,617	8,278
177.85	5,165	5,530	178.37	5,626	8,335
177.86	5,174	5,582	178.38	5,635	8,391
177.87	5,182	5,634	178.39	5,644	8,447
177.88	5,191	5,686	178.40	5,653	8,504
177.89	5,199	5,738	178.41	5,662	8,560
177.90	5,208	5,790	178.42	5,671	8,617

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.43	5,680	8,674	178.95	6,149	11,749
178.44	5,689	8,731	178.96	6,158	11,811
178.45	5,698	8,788	178.97	6,167	11,872
178.46	5,707	8,845	178.98	6,176	11,934
178.47	5,716	8,902	178.99	6,185	11,996
178.48	5,725	8,959	179.00	6,194	12,058
178.49	5,734	9,016	179.01	6,204	12,120
178.50	5,743	9,074	179.02	6,213	12,182
178.51	5,752	9,131	179.03	6,223	12,244
178.52	5,761	9,189	179.04	6,232	12,306
178.53	5,770	9,246	179.05	6,242	12,369
178.54	5,779	9,304	179.06	6,252	12,431
178.55	5,788	9,362	179.07	6,261	12,494
178.56	5,797	9,420	179.08	6,271	12,556
178.57	5,806	9,478	179.09	6,280	12,619
178.58	5,815	9,536	179.10	6,290	12,682
178.59	5,824	9,594	179.11	6,299	12,745
178.60	5,833	9,652	179.12	6,309	12,808
178.61	5,842	9,711	179.13	6,319	12,871
178.62	5,851	9,769	179.14	6,328	12,934
178.63	5,860	9,828	179.15	6,338	12,998
178.64	5,869	9,886	179.16	6,347	13,061
178.65	5,878	9,945	179.17	6,357	13,125
178.66	5,887	10,004	179.18	6,367	13,188
178.67	5,896	10,063	179.19	6,376	13,252
178.68	5,905	10,122	179.20	6,386	13,316
178.69	5,914	10,181	179.21	6,395	13,380
178.70	5,923	10,240	179.22	6,405	13,444
178.71	5,932	10,299	179.23	6,415	13,508
178.72	5,941	10,359	179.24	6,424	13,572
178.73	5,950	10,418	179.25	6,434	13,636
178.74	5,959	10,478	179.26	6,443	13,701
178.75	5,969	10,537	179.27	6,453	13,765
178.76	5,978	10,597	179.28	6,463	13,830
178.77	5,987	10,657	179.29	6,472	13,894
178.78	5,996	10,717	179.30	6,482	13,959
178.79	6,005	10,777	179.31	6,491	14,024
178.80	6,014	10,837	179.32	6,501	14,089
178.81	6,023	10,897	179.33	6,510	14,154
178.82	6,032	10,957	179.34	6,520	14,219
178.83	6,041	11,018	179.35	6,530	14,284
178.84	6,050	11,078	179.36	6,539	14,350
178.85	6,059	11,139	179.37	6,549	14,415
178.86	6,068	11,199	179.38	6,558	14,481
178.87	6,077	11,260	179.39	6,568	14,546
178.88	6,086	11,321	179.40	6,578	14,612
178.89	6,095	11,382	179.41	6,587	14,678
178.90	6,104	11,443	179.42	6,597	14,744
178.91	6,113	11,504	179.43	6,606	14,810
178.92	6,122	11,565	179.44	6,616	14,876
178.93	6,131	11,626	179.45	6,626	14,942
178.94	6,140	11,688	179.46	6,635	15,008

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.47	6,645	15,075	179.99	7,143	18,660
179.48	6,654	15,141	180.00	7,153	18,731
179.49	6,664	15,208	180.01	7,163	18,803
179.50	6,674	15,275	180.02	7,173	18,875
179.51	6,683	15,341	180.03	7,183	18,946
179.52	6,693	15,408	180.04	7,194	19,018
179.53	6,702	15,475	180.05	7,204	19,090
179.54	6,712	15,542	180.06	7,214	19,162
179.55	6,721	15,610	180.07	7,224	19,234
179.56	6,731	15,677	180.08	7,234	19,307
179.57	6,741	15,744	180.09	7,244	19,379
179.58	6,750	15,812	180.10	7,254	19,452
179.59	6,760	15,879	180.11	7,265	19,524
179.60	6,769	15,947	180.12	7,275	19,597
179.61	6,779	16,015	180.13	7,285	19,670
179.62	6,789	16,082	180.14	7,295	19,743
179.63	6,798	16,150	180.15	7,305	19,816
179.64	6,808	16,218	180.16	7,315	19,889
179.65	6,817	16,286	180.17	7,326	19,962
179.66	6,827	16,355	180.18	7,336	20,035
179.67	6,837	16,423	180.19	7,346	20,109
179.68	6,846	16,491	180.20	7,356	20,182
179.69	6,856	16,560	180.21	7,366	20,256
179.70	6,865	16,629	180.22	7,376	20,329
179.71	6,875	16,697	180.23	7,386	20,403
179.72	6,884	16,766	180.24	7,397	20,477
179.73	6,894	16,835	180.25	7,407	20,551
179.74	6,904	16,904	180.26	7,417	20,625
179.75	6,913	16,973	180.27	7,427	20,700
179.76	6,923	17,042	180.28	7,437	20,774
179.77	6,932	17,111	180.29	7,447	20,848
179.78	6,942	17,181	180.30	7,457	20,923
179.79	6,952	17,250	180.31	7,468	20,997
179.80	6,961	17,320	180.32	7,478	21,072
179.81	6,971	17,390	180.33	7,488	21,147
179.82	6,980	17,459	180.34	7,498	21,222
179.83	6,990	17,529	180.35	7,508	21,297
179.84	7,000	17,599	180.36	7,518	21,372
179.85	7,009	17,669	180.37	7,529	21,447
179.86	7,019	17,739	180.38	7,539	21,523
179.87	7,028	17,809	180.39	7,549	21,598
179.88	7,038	17,880	180.40	7,559	21,674
179.89	7,048	17,950	180.41	7,569	21,749
179.90	7,057	18,021	180.42	7,579	21,825
179.91	7,067	18,091	180.43	7,589	21,901
179.92	7,076	18,162	180.44	7,600	21,977
179.93	7,086	18,233	180.45	7,610	22,053
179.94	7,095	18,304	180.46	7,620	22,129
179.95	7,105	18,375	180.47	7,630	22,205
179.96	7,115	18,446	180.48	7,640	22,282
179.97	7,124	18,517	180.49	7,650	22,358
179.98	7,134	18,588	180.50	7,661	22,435

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.51	7,671	22,511
180.52	7,681	22,588
180.53	7,691	22,665
180.54	7,701	22,742
180.55	7,711	22,819
180.56	7,721	22,896
180.57	7,732	22,973
180.58	7,742	23,051
180.59	7,752	23,128
180.60	7,762	23,206
180.61	7,772	23,283
180.62	7,782	23,361
180.63	7,792	23,439
180.64	7,803	23,517
180.65	7,813	23,595
180.66	7,823	23,673
180.67	7,833	23,752
180.68	7,843	23,830
180.69	7,853	23,908
180.70	7,863	23,987
180.71	7,874	24,066
180.72	7,884	24,145
180.73	7,894	24,223
180.74	7,904	24,302
180.75	7,914	24,381
180.76	7,924	24,461
180.77	7,935	24,540
180.78	7,945	24,619
180.79	7,955	24,699
180.80	7,965	24,778
180.81	7,975	24,858
180.82	7,985	24,938
180.83	7,995	25,018
180.84	8,006	25,098
180.85	8,016	25,178
180.86	8,026	25,258
180.87	8,036	25,339
180.88	8,046	25,419
180.89	8,056	25,499
180.90	8,067	25,580
180.91	8,077	25,661
180.92	8,087	25,742
180.93	8,097	25,823
180.94	8,107	25,904
180.95	8,117	25,985
180.96	8,127	26,066
180.97	8,138	26,147
180.98	8,148	26,229
180.99	8,158	26,310
181.00	**8,168**	**26,392**

Summary for Pond B-44: Basin #44

Inflow Area = 1.184 ac, 34.71% Impervious, Inflow Depth = 3.28" for Current 10 yr event
Inflow = 4.00 cfs @ 12.17 hrs, Volume= 0.324 af
Outflow = 0.14 cfs @ 15.26 hrs, Volume= 0.211 af, Atten= 96%, Lag= 185.0 min
Primary = 0.14 cfs @ 15.26 hrs, Volume= 0.211 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 167.28' @ 15.26 hrs Surf.Area= 6,766 sf Storage= 9,952 cf

Plug-Flow detention time= 655.8 min calculated for 0.211 af (65% of inflow)
Center-of-Mass det. time= 547.4 min (1,344.0 - 796.6)

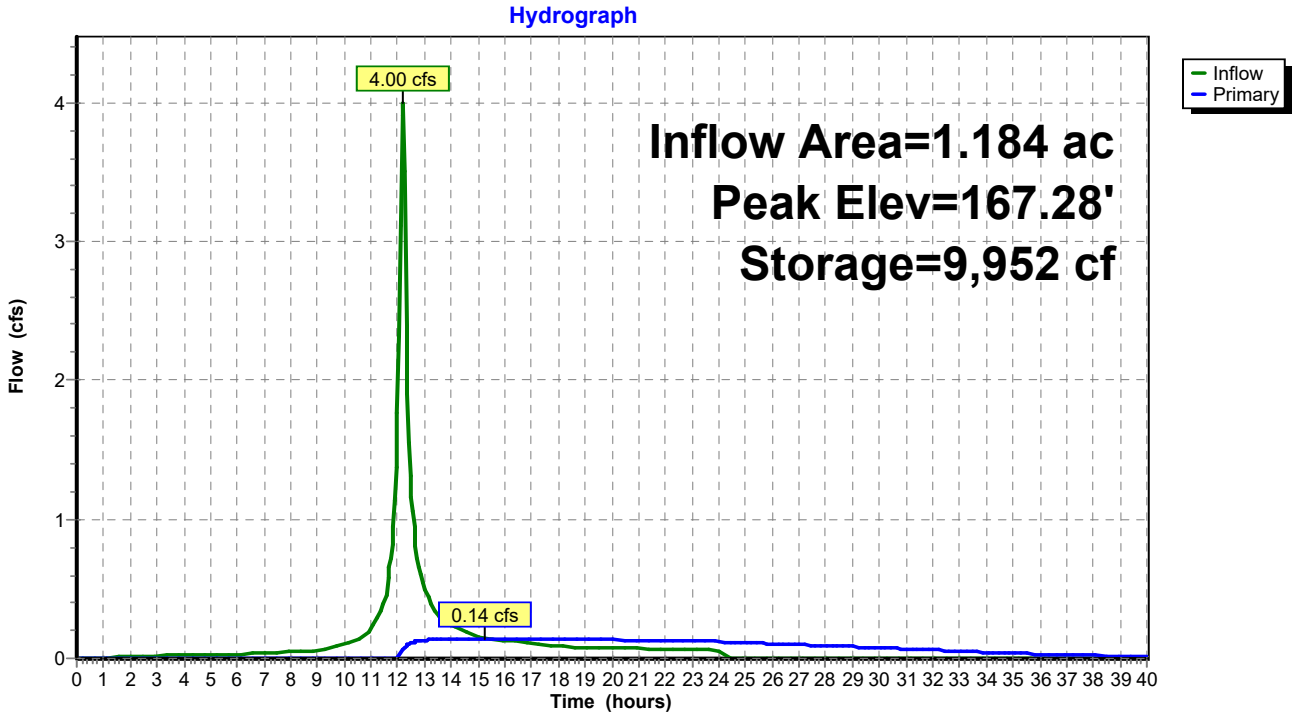
Volume	Invert	Avail.Storage	Storage Description
#1	165.30'	31,812 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
165.30	0	0	0
166.00	5,690	1,991	1,991
167.00	6,518	6,104	8,095
168.00	7,407	6,963	15,058
169.00	8,360	7,884	22,941
170.00	9,381	8,871	31,812

Device	Routing	Invert	Outlet Devices
#1	Primary	165.30'	**18.0" Round Culvert** L= 44.0' Ke= 0.500 Inlet / Outlet Invert= 165.30' / 164.00' S= 0.0295 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	166.41'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	167.50'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	168.98'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.14 cfs @ 15.26 hrs HW=167.28' (Free Discharge)
- **1=Culvert** (Passes 0.14 cfs of 9.43 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.14 cfs @ 4.21 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-44: Basin #44



Stage-Discharge for Pond B-44: Basin #44

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
165.30	0.00	165.82	0.00	166.34	0.00	166.86	0.10
165.31	0.00	165.83	0.00	166.35	0.00	166.87	0.10
165.32	0.00	165.84	0.00	166.36	0.00	166.88	0.10
165.33	0.00	165.85	0.00	166.37	0.00	166.89	0.10
165.34	0.00	165.86	0.00	166.38	0.00	166.90	0.10
165.35	0.00	165.87	0.00	166.39	0.00	166.91	0.10
165.36	0.00	165.88	0.00	166.40	0.00	166.92	0.10
165.37	0.00	165.89	0.00	166.41	0.00	166.93	0.11
165.38	0.00	165.90	0.00	166.42	0.00	166.94	0.11
165.39	0.00	165.91	0.00	166.43	0.00	166.95	0.11
165.40	0.00	165.92	0.00	166.44	0.00	166.96	0.11
165.41	0.00	165.93	0.00	166.45	0.00	166.97	0.11
165.42	0.00	165.94	0.00	166.46	0.00	166.98	0.11
165.43	0.00	165.95	0.00	166.47	0.01	166.99	0.11
165.44	0.00	165.96	0.00	166.48	0.01	167.00	0.11
165.45	0.00	165.97	0.00	166.49	0.01	167.01	0.12
165.46	0.00	165.98	0.00	166.50	0.01	167.02	0.12
165.47	0.00	165.99	0.00	166.51	0.02	167.03	0.12
165.48	0.00	166.00	0.00	166.52	0.02	167.04	0.12
165.49	0.00	166.01	0.00	166.53	0.02	167.05	0.12
165.50	0.00	166.02	0.00	166.54	0.03	167.06	0.12
165.51	0.00	166.03	0.00	166.55	0.03	167.07	0.12
165.52	0.00	166.04	0.00	166.56	0.03	167.08	0.12
165.53	0.00	166.05	0.00	166.57	0.04	167.09	0.12
165.54	0.00	166.06	0.00	166.58	0.04	167.10	0.13
165.55	0.00	166.07	0.00	166.59	0.05	167.11	0.13
165.56	0.00	166.08	0.00	166.60	0.05	167.12	0.13
165.57	0.00	166.09	0.00	166.61	0.05	167.13	0.13
165.58	0.00	166.10	0.00	166.62	0.05	167.14	0.13
165.59	0.00	166.11	0.00	166.63	0.06	167.15	0.13
165.60	0.00	166.12	0.00	166.64	0.06	167.16	0.13
165.61	0.00	166.13	0.00	166.65	0.06	167.17	0.13
165.62	0.00	166.14	0.00	166.66	0.06	167.18	0.13
165.63	0.00	166.15	0.00	166.67	0.06	167.19	0.13
165.64	0.00	166.16	0.00	166.68	0.07	167.20	0.14
165.65	0.00	166.17	0.00	166.69	0.07	167.21	0.14
165.66	0.00	166.18	0.00	166.70	0.07	167.22	0.14
165.67	0.00	166.19	0.00	166.71	0.07	167.23	0.14
165.68	0.00	166.20	0.00	166.72	0.07	167.24	0.14
165.69	0.00	166.21	0.00	166.73	0.08	167.25	0.14
165.70	0.00	166.22	0.00	166.74	0.08	167.26	0.14
165.71	0.00	166.23	0.00	166.75	0.08	167.27	0.14
165.72	0.00	166.24	0.00	166.76	0.08	167.28	0.14
165.73	0.00	166.25	0.00	166.77	0.08	167.29	0.14
165.74	0.00	166.26	0.00	166.78	0.08	167.30	0.15
165.75	0.00	166.27	0.00	166.79	0.09	167.31	0.15
165.76	0.00	166.28	0.00	166.80	0.09	167.32	0.15
165.77	0.00	166.29	0.00	166.81	0.09	167.33	0.15
165.78	0.00	166.30	0.00	166.82	0.09	167.34	0.15
165.79	0.00	166.31	0.00	166.83	0.09	167.35	0.15
165.80	0.00	166.32	0.00	166.84	0.09	167.36	0.15
165.81	0.00	166.33	0.00	166.85	0.10	167.37	0.15

Stage-Discharge for Pond B-44: Basin #44 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
167.38	0.15	167.90	3.44	168.42	11.24	168.94	14.46
167.39	0.15	167.91	3.56	168.43	11.41	168.95	14.49
167.40	0.15	167.92	3.68	168.44	11.59	168.96	14.51
167.41	0.16	167.93	3.80	168.45	11.76	168.97	14.54
167.42	0.16	167.94	3.93	168.46	11.94	168.98	14.56
167.43	0.16	167.95	4.06	168.47	12.12	168.99	14.71
167.44	0.16	167.96	4.18	168.48	12.30	169.00	14.95
167.45	0.16	167.97	4.31	168.49	12.48	169.01	15.25
167.46	0.16	167.98	4.44	168.50	12.66	169.02	15.60
167.47	0.16	167.99	4.58	168.51	12.84	169.03	16.00
167.48	0.16	168.00	4.71	168.52	13.02	169.04	16.44
167.49	0.16	168.01	4.84	168.53	13.20	169.05	16.91
167.50	0.16	168.02	4.98	168.54	13.38	169.06	17.42
167.51	0.18	168.03	5.12	168.55	13.45	169.07	17.96
167.52	0.20	168.04	5.25	168.56	13.48	169.08	18.53
167.53	0.23	168.05	5.39	168.57	13.51	169.09	19.13
167.54	0.27	168.06	5.53	168.58	13.53	169.10	19.75
167.55	0.31	168.07	5.67	168.59	13.56	169.11	20.40
167.56	0.36	168.08	5.82	168.60	13.59	169.12	21.08
167.57	0.41	168.09	5.96	168.61	13.61	169.13	21.78
167.58	0.46	168.10	6.10	168.62	13.64	169.14	22.50
167.59	0.52	168.11	6.25	168.63	13.67	169.15	23.25
167.60	0.58	168.12	6.40	168.64	13.69	169.16	24.02
167.61	0.65	168.13	6.54	168.65	13.72	169.17	24.81
167.62	0.71	168.14	6.69	168.66	13.75	169.18	25.62
167.63	0.78	168.15	6.84	168.67	13.77	169.19	26.49
167.64	0.85	168.16	6.99	168.68	13.80	169.20	27.39
167.65	0.93	168.17	7.14	168.69	13.83	169.21	28.31
167.66	1.01	168.18	7.30	168.70	13.85	169.22	29.25
167.67	1.09	168.19	7.45	168.71	13.88	169.23	30.23
167.68	1.17	168.20	7.61	168.72	13.90	169.24	31.22
167.69	1.25	168.21	7.76	168.73	13.93	169.25	32.25
167.70	1.34	168.22	7.92	168.74	13.96	169.26	33.29
167.71	1.43	168.23	8.08	168.75	13.98	169.27	34.36
167.72	1.52	168.24	8.23	168.76	14.01	169.28	35.46
167.73	1.61	168.25	8.39	168.77	14.03	169.29	36.58
167.74	1.70	168.26	8.55	168.78	14.06	169.30	37.73
167.75	1.80	168.27	8.72	168.79	14.08	169.31	38.90
167.76	1.89	168.28	8.88	168.80	14.11	169.32	40.09
167.77	1.99	168.29	9.04	168.81	14.14	169.33	41.31
167.78	2.10	168.30	9.20	168.82	14.16	169.34	42.55
167.79	2.20	168.31	9.37	168.83	14.19	169.35	43.81
167.80	2.30	168.32	9.53	168.84	14.21	169.36	45.10
167.81	2.41	168.33	9.70	168.85	14.24	169.37	46.42
167.82	2.52	168.34	9.87	168.86	14.26	169.38	47.76
167.83	2.63	168.35	10.04	168.87	14.29	169.39	49.15
167.84	2.74	168.36	10.21	168.88	14.31	169.40	50.56
167.85	2.85	168.37	10.38	168.89	14.34	169.41	52.00
167.86	2.96	168.38	10.55	168.90	14.36	169.42	53.47
167.87	3.08	168.39	10.72	168.91	14.39	169.43	54.96
167.88	3.20	168.40	10.89	168.92	14.41	169.44	56.48
167.89	3.32	168.41	11.06	168.93	14.44	169.45	58.03

Stage-Discharge for Pond B-44: Basin #44 (continued)

Elevation (feet)	Primary (cfs)
169.46	59.60
169.47	61.20
169.48	62.82
169.49	64.47
169.50	66.15
169.51	67.86
169.52	69.59
169.53	71.35
169.54	73.13
169.55	74.94
169.56	76.78
169.57	78.64
169.58	80.54
169.59	82.19
169.60	83.85
169.61	85.52
169.62	87.21
169.63	88.92
169.64	90.63
169.65	92.36
169.66	94.11
169.67	95.86
169.68	97.63
169.69	99.41
169.70	101.20
169.71	103.01
169.72	104.83
169.73	106.66
169.74	108.50
169.75	110.36
169.76	112.23
169.77	114.11
169.78	116.00
169.79	117.94
169.80	119.89
169.81	121.86
169.82	123.84
169.83	125.84
169.84	127.85
169.85	129.87
169.86	131.90
169.87	133.95
169.88	136.01
169.89	138.08
169.90	140.16
169.91	142.26
169.92	144.37
169.93	146.49
169.94	148.63
169.95	150.78
169.96	152.94
169.97	155.11
169.98	157.30
169.99	159.45
170.00	**161.60**

Stage-Area-Storage for Pond B-44: Basin #44

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
165.30	0	0
165.31	81	0
165.32	163	2
165.33	244	4
165.34	325	7
165.35	406	10
165.36	488	15
165.37	569	20
165.38	650	26
165.39	732	33
165.40	813	41
165.41	894	49
165.42	975	59
165.43	1,057	69
165.44	1,138	80
165.45	1,219	91
165.46	1,301	104
165.47	1,382	117
165.48	1,463	132
165.49	1,544	147
165.50	1,626	163
165.51	1,707	179
165.52	1,788	197
165.53	1,870	215
165.54	1,951	234
165.55	2,032	254
165.56	2,113	275
165.57	2,195	296
165.58	2,276	319
165.59	2,357	342
165.60	2,439	366
165.61	2,520	391
165.62	2,601	416
165.63	2,682	443
165.64	2,764	470
165.65	2,845	498
165.66	2,926	527
165.67	3,008	556
165.68	3,089	587
165.69	3,170	618
165.70	3,251	650
165.71	3,333	683
165.72	3,414	717
165.73	3,495	751
165.74	3,577	787
165.75	3,658	823
165.76	3,739	860
165.77	3,820	898
165.78	3,902	936
165.79	3,983	976
165.80	4,064	1,016
165.81	4,146	1,057
165.82	4,227	1,099
165.83	4,308	1,142
165.84	4,389	1,185
165.85	4,471	1,229
165.86	4,552	1,275
165.87	4,633	1,320
165.88	4,715	1,367
165.89	4,796	1,415
165.90	4,877	1,463
165.91	4,958	1,512
165.92	5,040	1,562
165.93	5,121	1,613
165.94	5,202	1,665
165.95	5,284	1,717
165.96	5,365	1,770
165.97	5,446	1,824
165.98	5,527	1,879
165.99	5,609	1,935
166.00	5,690	1,991
166.01	5,698	2,048
166.02	5,707	2,105
166.03	5,715	2,163
166.04	5,723	2,220
166.05	5,731	2,277
166.06	5,740	2,334
166.07	5,748	2,392
166.08	5,756	2,449
166.09	5,765	2,507
166.10	5,773	2,565
166.11	5,781	2,622
166.12	5,789	2,680
166.13	5,798	2,738
166.14	5,806	2,796
166.15	5,814	2,854
166.16	5,822	2,912
166.17	5,831	2,971
166.18	5,839	3,029
166.19	5,847	3,088
166.20	5,856	3,146
166.21	5,864	3,205
166.22	5,872	3,263
166.23	5,880	3,322
166.24	5,889	3,381
166.25	5,897	3,440
166.26	5,905	3,499
166.27	5,914	3,558
166.28	5,922	3,617
166.29	5,930	3,676
166.30	5,938	3,736
166.31	5,947	3,795
166.32	5,955	3,855
166.33	5,963	3,914

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
166.34	5,972	3,974	166.86	6,402	7,191
166.35	5,980	4,034	166.87	6,410	7,255
166.36	5,988	4,094	166.88	6,419	7,319
166.37	5,996	4,153	166.89	6,427	7,384
166.38	6,005	4,213	166.90	6,435	7,448
166.39	6,013	4,274	166.91	6,443	7,512
166.40	6,021	4,334	166.92	6,452	7,577
166.41	6,029	4,394	166.93	6,460	7,641
166.42	6,038	4,454	166.94	6,468	7,706
166.43	6,046	4,515	166.95	6,477	7,771
166.44	6,054	4,575	166.96	6,485	7,835
166.45	6,063	4,636	166.97	6,493	7,900
166.46	6,071	4,697	166.98	6,501	7,965
166.47	6,079	4,757	166.99	6,510	8,030
166.48	6,087	4,818	167.00	6,518	8,095
166.49	6,096	4,879	167.01	6,527	8,161
166.50	6,104	4,940	167.02	6,536	8,226
166.51	6,112	5,001	167.03	6,545	8,291
166.52	6,121	5,062	167.04	6,554	8,357
166.53	6,129	5,123	167.05	6,562	8,423
166.54	6,137	5,185	167.06	6,571	8,488
166.55	6,145	5,246	167.07	6,580	8,554
166.56	6,154	5,308	167.08	6,589	8,620
166.57	6,162	5,369	167.09	6,598	8,686
166.58	6,170	5,431	167.10	6,607	8,752
166.59	6,179	5,493	167.11	6,616	8,818
166.60	6,187	5,555	167.12	6,625	8,884
166.61	6,195	5,616	167.13	6,634	8,950
166.62	6,203	5,678	167.14	6,642	9,017
166.63	6,212	5,741	167.15	6,651	9,083
166.64	6,220	5,803	167.16	6,660	9,150
166.65	6,228	5,865	167.17	6,669	9,216
166.66	6,236	5,927	167.18	6,678	9,283
166.67	6,245	5,990	167.19	6,687	9,350
166.68	6,253	6,052	167.20	6,696	9,417
166.69	6,261	6,115	167.21	6,705	9,484
166.70	6,270	6,177	167.22	6,714	9,551
166.71	6,278	6,240	167.23	6,722	9,618
166.72	6,286	6,303	167.24	6,731	9,685
166.73	6,294	6,366	167.25	6,740	9,753
166.74	6,303	6,429	167.26	6,749	9,820
166.75	6,311	6,492	167.27	6,758	9,888
166.76	6,319	6,555	167.28	6,767	9,955
166.77	6,328	6,618	167.29	6,776	10,023
166.78	6,336	6,682	167.30	6,785	10,091
166.79	6,344	6,745	167.31	6,794	10,159
166.80	6,352	6,808	167.32	6,802	10,227
166.81	6,361	6,872	167.33	6,811	10,295
166.82	6,369	6,936	167.34	6,820	10,363
166.83	6,377	6,999	167.35	6,829	10,431
166.84	6,386	7,063	167.36	6,838	10,500
166.85	6,394	7,127	167.37	6,847	10,568

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
167.38	6,856	10,637	167.90	7,318	14,322
167.39	6,865	10,705	167.91	7,327	14,395
167.40	6,874	10,774	167.92	7,336	14,468
167.41	6,882	10,843	167.93	7,345	14,542
167.42	6,891	10,911	167.94	7,354	14,615
167.43	6,900	10,980	167.95	7,363	14,689
167.44	6,909	11,049	167.96	7,371	14,762
167.45	6,918	11,119	167.97	7,380	14,836
167.46	6,927	11,188	167.98	7,389	14,910
167.47	6,936	11,257	167.99	7,398	14,984
167.48	6,945	11,327	168.00	7,407	15,058
167.49	6,954	11,396	168.01	7,417	15,132
167.50	6,963	11,466	168.02	7,426	15,206
167.51	6,971	11,535	168.03	7,436	15,281
167.52	6,980	11,605	168.04	7,445	15,355
167.53	6,989	11,675	168.05	7,455	15,430
167.54	6,998	11,745	168.06	7,464	15,504
167.55	7,007	11,815	168.07	7,474	15,579
167.56	7,016	11,885	168.08	7,483	15,654
167.57	7,025	11,955	168.09	7,493	15,728
167.58	7,034	12,025	168.10	7,502	15,803
167.59	7,043	12,096	168.11	7,512	15,879
167.60	7,051	12,166	168.12	7,521	15,954
167.61	7,060	12,237	168.13	7,531	16,029
167.62	7,069	12,308	168.14	7,540	16,104
167.63	7,078	12,378	168.15	7,550	16,180
167.64	7,087	12,449	168.16	7,559	16,255
167.65	7,096	12,520	168.17	7,569	16,331
167.66	7,105	12,591	168.18	7,579	16,407
167.67	7,114	12,662	168.19	7,588	16,483
167.68	7,123	12,733	168.20	7,598	16,558
167.69	7,131	12,805	168.21	7,607	16,634
167.70	7,140	12,876	168.22	7,617	16,711
167.71	7,149	12,947	168.23	7,626	16,787
167.72	7,158	13,019	168.24	7,636	16,863
167.73	7,167	13,091	168.25	7,645	16,940
167.74	7,176	13,162	168.26	7,655	17,016
167.75	7,185	13,234	168.27	7,664	17,093
167.76	7,194	13,306	168.28	7,674	17,169
167.77	7,203	13,378	168.29	7,683	17,246
167.78	7,211	13,450	168.30	7,693	17,323
167.79	7,220	13,522	168.31	7,702	17,400
167.80	7,229	13,594	168.32	7,712	17,477
167.81	7,238	13,667	168.33	7,721	17,554
167.82	7,247	13,739	168.34	7,731	17,631
167.83	7,256	13,812	168.35	7,741	17,709
167.84	7,265	13,884	168.36	7,750	17,786
167.85	7,274	13,957	168.37	7,760	17,864
167.86	7,283	14,030	168.38	7,769	17,941
167.87	7,291	14,103	168.39	7,779	18,019
167.88	7,300	14,176	168.40	7,788	18,097
167.89	7,309	14,249	168.41	7,798	18,175

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
168.42	7,807	18,253	168.94	8,303	22,442
168.43	7,817	18,331	168.95	8,312	22,525
168.44	7,826	18,409	168.96	8,322	22,608
168.45	7,836	18,488	168.97	8,331	22,691
168.46	7,845	18,566	168.98	8,341	22,774
168.47	7,855	18,645	168.99	8,350	22,858
168.48	7,864	18,723	169.00	8,360	22,941
168.49	7,874	18,802	169.01	8,370	23,025
168.50	7,884	18,881	169.02	8,380	23,109
168.51	7,893	18,960	169.03	8,391	23,193
168.52	7,903	19,038	169.04	8,401	23,277
168.53	7,912	19,118	169.05	8,411	23,361
168.54	7,922	19,197	169.06	8,421	23,445
168.55	7,931	19,276	169.07	8,431	23,529
168.56	7,941	19,355	169.08	8,442	23,614
168.57	7,950	19,435	169.09	8,452	23,698
168.58	7,960	19,514	169.10	8,462	23,783
168.59	7,969	19,594	169.11	8,472	23,867
168.60	7,979	19,674	169.12	8,483	23,952
168.61	7,988	19,754	169.13	8,493	24,037
168.62	7,998	19,834	169.14	8,503	24,122
168.63	8,007	19,914	169.15	8,513	24,207
168.64	8,017	19,994	169.16	8,523	24,292
168.65	8,026	20,074	169.17	8,534	24,377
168.66	8,036	20,154	169.18	8,544	24,463
168.67	8,046	20,235	169.19	8,554	24,548
168.68	8,055	20,315	169.20	8,564	24,634
168.69	8,065	20,396	169.21	8,574	24,720
168.70	8,074	20,476	169.22	8,585	24,805
168.71	8,084	20,557	169.23	8,595	24,891
168.72	8,093	20,638	169.24	8,605	24,977
168.73	8,103	20,719	169.25	8,615	25,063
168.74	8,112	20,800	169.26	8,625	25,150
168.75	8,122	20,881	169.27	8,636	25,236
168.76	8,131	20,963	169.28	8,646	25,322
168.77	8,141	21,044	169.29	8,656	25,409
168.78	8,150	21,125	169.30	8,666	25,495
168.79	8,160	21,207	169.31	8,677	25,582
168.80	8,169	21,289	169.32	8,687	25,669
168.81	8,179	21,370	169.33	8,697	25,756
168.82	8,188	21,452	169.34	8,707	25,843
168.83	8,198	21,534	169.35	8,717	25,930
168.84	8,208	21,616	169.36	8,728	26,017
168.85	8,217	21,698	169.37	8,738	26,105
168.86	8,227	21,780	169.38	8,748	26,192
168.87	8,236	21,863	169.39	8,758	26,280
168.88	8,246	21,945	169.40	8,768	26,367
168.89	8,255	22,028	169.41	8,779	26,455
168.90	8,265	22,110	169.42	8,789	26,543
168.91	8,274	22,193	169.43	8,799	26,631
168.92	8,284	22,276	169.44	8,809	26,719
168.93	8,293	22,359	169.45	8,819	26,807

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.46	8,830	26,895
169.47	8,840	26,983
169.48	8,850	27,072
169.49	8,860	27,160
169.50	8,871	27,249
169.51	8,881	27,338
169.52	8,891	27,427
169.53	8,901	27,516
169.54	8,911	27,605
169.55	8,922	27,694
169.56	8,932	27,783
169.57	8,942	27,873
169.58	8,952	27,962
169.59	8,962	28,052
169.60	8,973	28,141
169.61	8,983	28,231
169.62	8,993	28,321
169.63	9,003	28,411
169.64	9,013	28,501
169.65	9,024	28,591
169.66	9,034	28,681
169.67	9,044	28,772
169.68	9,054	28,862
169.69	9,064	28,953
169.70	9,075	29,044
169.71	9,085	29,134
169.72	9,095	29,225
169.73	9,105	29,316
169.74	9,116	29,407
169.75	9,126	29,499
169.76	9,136	29,590
169.77	9,146	29,681
169.78	9,156	29,773
169.79	9,167	29,865
169.80	9,177	29,956
169.81	9,187	30,048
169.82	9,197	30,140
169.83	9,207	30,232
169.84	9,218	30,324
169.85	9,228	30,416
169.86	9,238	30,509
169.87	9,248	30,601
169.88	9,258	30,694
169.89	9,269	30,786
169.90	9,279	30,879
169.91	9,289	30,972
169.92	9,299	31,065
169.93	9,310	31,158
169.94	9,320	31,251
169.95	9,330	31,344
169.96	9,340	31,438
169.97	9,350	31,531
169.98	9,361	31,625
169.99	9,371	31,718
170.00	**9,381**	**31,812**

Summary for Pond B-45: Basin #45

Inflow Area = 2.294 ac, 62.82% Impervious, Inflow Depth = 3.96" for Current 10 yr event
Inflow = 8.99 cfs @ 12.17 hrs, Volume= 0.758 af
Outflow = 4.40 cfs @ 12.35 hrs, Volume= 0.598 af, Atten= 51%, Lag= 10.6 min
Primary = 4.40 cfs @ 12.35 hrs, Volume= 0.598 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 169.16' @ 12.35 hrs Surf.Area= 5,694 sf Storage= 16,285 cf

Plug-Flow detention time= 382.2 min calculated for 0.597 af (79% of inflow)
Center-of-Mass det. time= 299.5 min (1,072.7 - 773.2)

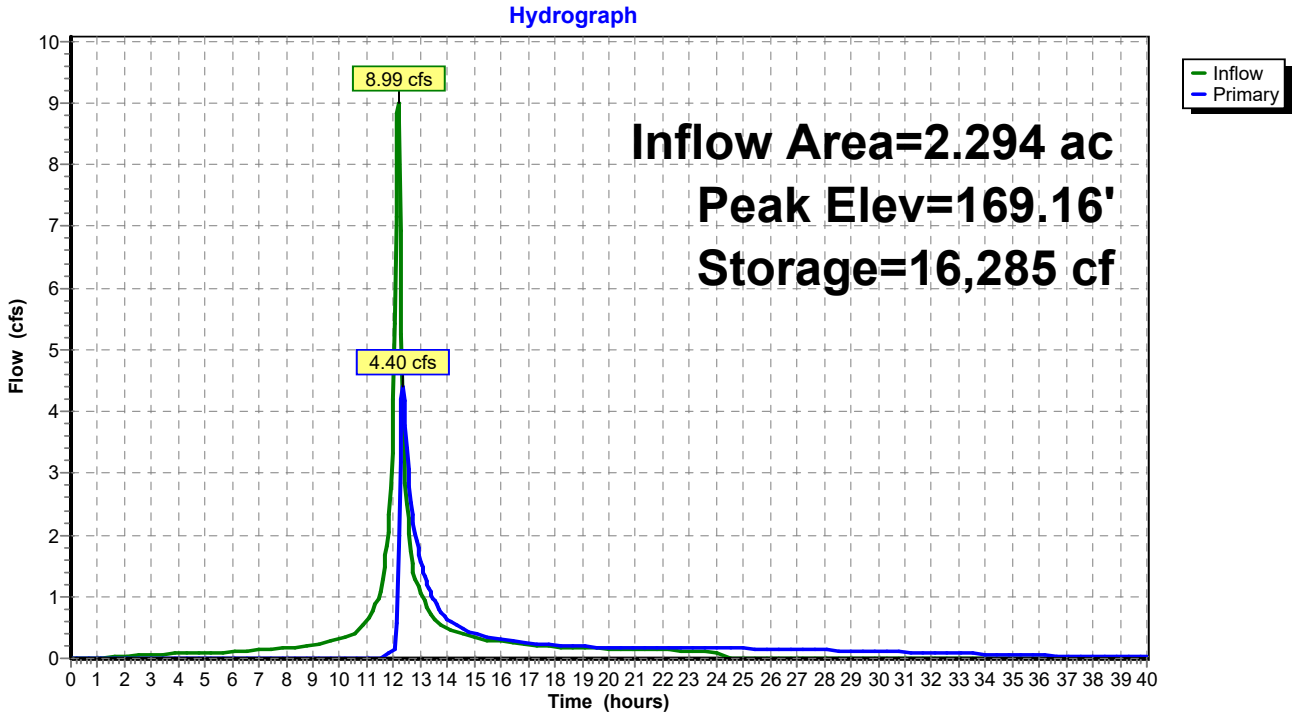
Volume	Invert	Avail.Storage	Storage Description
#1	165.30'	21,270 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
165.30	0	0	0
166.00	3,797	1,329	1,329
167.00	4,370	4,084	5,412
168.00	4,967	4,669	10,081
169.00	5,588	5,278	15,358
170.00	6,235	5,912	21,270

Device	Routing	Invert	Outlet Devices
#1	Primary	165.30'	**18.0" Round Culvert** L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 165.30' / 164.00' S= 0.0325 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	167.25'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	168.50'	**2.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Device 1	169.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#5	Primary	169.97'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=4.38 cfs @ 12.35 hrs HW=169.16' (Free Discharge)
- **1=Culvert** (Passes 4.38 cfs of 15.01 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.22 cfs @ 6.48 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 3.30 cfs @ 2.66 fps)
  - **4=Sharp-Crested Rectangular Weir** (Weir Controls 0.86 cfs @ 1.32 fps)
- **5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-45: Basin #45



Stage-Discharge for Pond B-45: Basin #45

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
165.30	0.00	165.82	0.00	166.34	0.00	166.86	0.00
165.31	0.00	165.83	0.00	166.35	0.00	166.87	0.00
165.32	0.00	165.84	0.00	166.36	0.00	166.88	0.00
165.33	0.00	165.85	0.00	166.37	0.00	166.89	0.00
165.34	0.00	165.86	0.00	166.38	0.00	166.90	0.00
165.35	0.00	165.87	0.00	166.39	0.00	166.91	0.00
165.36	0.00	165.88	0.00	166.40	0.00	166.92	0.00
165.37	0.00	165.89	0.00	166.41	0.00	166.93	0.00
165.38	0.00	165.90	0.00	166.42	0.00	166.94	0.00
165.39	0.00	165.91	0.00	166.43	0.00	166.95	0.00
165.40	0.00	165.92	0.00	166.44	0.00	166.96	0.00
165.41	0.00	165.93	0.00	166.45	0.00	166.97	0.00
165.42	0.00	165.94	0.00	166.46	0.00	166.98	0.00
165.43	0.00	165.95	0.00	166.47	0.00	166.99	0.00
165.44	0.00	165.96	0.00	166.48	0.00	167.00	0.00
165.45	0.00	165.97	0.00	166.49	0.00	167.01	0.00
165.46	0.00	165.98	0.00	166.50	0.00	167.02	0.00
165.47	0.00	165.99	0.00	166.51	0.00	167.03	0.00
165.48	0.00	166.00	0.00	166.52	0.00	167.04	0.00
165.49	0.00	166.01	0.00	166.53	0.00	167.05	0.00
165.50	0.00	166.02	0.00	166.54	0.00	167.06	0.00
165.51	0.00	166.03	0.00	166.55	0.00	167.07	0.00
165.52	0.00	166.04	0.00	166.56	0.00	167.08	0.00
165.53	0.00	166.05	0.00	166.57	0.00	167.09	0.00
165.54	0.00	166.06	0.00	166.58	0.00	167.10	0.00
165.55	0.00	166.07	0.00	166.59	0.00	167.11	0.00
165.56	0.00	166.08	0.00	166.60	0.00	167.12	0.00
165.57	0.00	166.09	0.00	166.61	0.00	167.13	0.00
165.58	0.00	166.10	0.00	166.62	0.00	167.14	0.00
165.59	0.00	166.11	0.00	166.63	0.00	167.15	0.00
165.60	0.00	166.12	0.00	166.64	0.00	167.16	0.00
165.61	0.00	166.13	0.00	166.65	0.00	167.17	0.00
165.62	0.00	166.14	0.00	166.66	0.00	167.18	0.00
165.63	0.00	166.15	0.00	166.67	0.00	167.19	0.00
165.64	0.00	166.16	0.00	166.68	0.00	167.20	0.00
165.65	0.00	166.17	0.00	166.69	0.00	167.21	0.00
165.66	0.00	166.18	0.00	166.70	0.00	167.22	0.00
165.67	0.00	166.19	0.00	166.71	0.00	167.23	0.00
165.68	0.00	166.20	0.00	166.72	0.00	167.24	0.00
165.69	0.00	166.21	0.00	166.73	0.00	167.25	0.00
165.70	0.00	166.22	0.00	166.74	0.00	167.26	0.00
165.71	0.00	166.23	0.00	166.75	0.00	167.27	0.00
165.72	0.00	166.24	0.00	166.76	0.00	167.28	0.00
165.73	0.00	166.25	0.00	166.77	0.00	167.29	0.00
165.74	0.00	166.26	0.00	166.78	0.00	167.30	0.00
165.75	0.00	166.27	0.00	166.79	0.00	167.31	0.01
165.76	0.00	166.28	0.00	166.80	0.00	167.32	0.01
165.77	0.00	166.29	0.00	166.81	0.00	167.33	0.01
165.78	0.00	166.30	0.00	166.82	0.00	167.34	0.01
165.79	0.00	166.31	0.00	166.83	0.00	167.35	0.02
165.80	0.00	166.32	0.00	166.84	0.00	167.36	0.02
165.81	0.00	166.33	0.00	166.85	0.00	167.37	0.02

Stage-Discharge for Pond B-45: Basin #45 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
167.38	0.03	167.90	0.12	168.42	0.17	168.94	2.03
167.39	0.03	167.91	0.12	168.43	0.17	168.95	2.09
167.40	0.03	167.92	0.12	168.44	0.17	168.96	2.15
167.41	0.04	167.93	0.12	168.45	0.17	168.97	2.22
167.42	0.04	167.94	0.13	168.46	0.17	168.98	2.28
167.43	0.05	167.95	0.13	168.47	0.17	168.99	2.34
167.44	0.05	167.96	0.13	168.48	0.17	169.00	2.41
167.45	0.05	167.97	0.13	168.49	0.17	169.01	2.48
167.46	0.05	167.98	0.13	168.50	0.18	169.02	2.57
167.47	0.06	167.99	0.13	168.51	0.18	169.03	2.67
167.48	0.06	168.00	0.13	168.52	0.20	169.04	2.77
167.49	0.06	168.01	0.13	168.53	0.21	169.05	2.88
167.50	0.06	168.02	0.13	168.54	0.23	169.06	2.99
167.51	0.06	168.03	0.13	168.55	0.25	169.07	3.11
167.52	0.07	168.04	0.14	168.56	0.28	169.08	3.23
167.53	0.07	168.05	0.14	168.57	0.30	169.09	3.36
167.54	0.07	168.06	0.14	168.58	0.33	169.10	3.49
167.55	0.07	168.07	0.14	168.59	0.36	169.11	3.62
167.56	0.07	168.08	0.14	168.60	0.39	169.12	3.75
167.57	0.08	168.09	0.14	168.61	0.42	169.13	3.89
167.58	0.08	168.10	0.14	168.62	0.45	169.14	4.03
167.59	0.08	168.11	0.14	168.63	0.49	169.15	4.18
167.60	0.08	168.12	0.14	168.64	0.52	169.16	4.33
167.61	0.08	168.13	0.14	168.65	0.56	169.17	4.48
167.62	0.08	168.14	0.15	168.66	0.60	169.18	4.63
167.63	0.09	168.15	0.15	168.67	0.64	169.19	4.79
167.64	0.09	168.16	0.15	168.68	0.68	169.20	4.94
167.65	0.09	168.17	0.15	168.69	0.72	169.21	5.10
167.66	0.09	168.18	0.15	168.70	0.76	169.22	5.27
167.67	0.09	168.19	0.15	168.71	0.81	169.23	5.43
167.68	0.09	168.20	0.15	168.72	0.85	169.24	5.60
167.69	0.10	168.21	0.15	168.73	0.90	169.25	5.77
167.70	0.10	168.22	0.15	168.74	0.94	169.26	5.94
167.71	0.10	168.23	0.15	168.75	0.99	169.27	6.12
167.72	0.10	168.24	0.15	168.76	1.04	169.28	6.29
167.73	0.10	168.25	0.16	168.77	1.09	169.29	6.47
167.74	0.10	168.26	0.16	168.78	1.14	169.30	6.65
167.75	0.10	168.27	0.16	168.79	1.19	169.31	6.83
167.76	0.10	168.28	0.16	168.80	1.24	169.32	7.02
167.77	0.11	168.29	0.16	168.81	1.29	169.33	7.20
167.78	0.11	168.30	0.16	168.82	1.34	169.34	7.39
167.79	0.11	168.31	0.16	168.83	1.40	169.35	7.58
167.80	0.11	168.32	0.16	168.84	1.45	169.36	7.77
167.81	0.11	168.33	0.16	168.85	1.51	169.37	7.97
167.82	0.11	168.34	0.16	168.86	1.56	169.38	8.16
167.83	0.11	168.35	0.16	168.87	1.62	169.39	8.36
167.84	0.11	168.36	0.16	168.88	1.68	169.40	8.56
167.85	0.12	168.37	0.17	168.89	1.73	169.41	8.76
167.86	0.12	168.38	0.17	168.90	1.79	169.42	8.96
167.87	0.12	168.39	0.17	168.91	1.85	169.43	9.17
167.88	0.12	168.40	0.17	168.92	1.91	169.44	9.37
167.89	0.12	168.41	0.17	168.93	1.97	169.45	9.58

Stage-Discharge for Pond B-45: Basin #45 (continued)

Elevation (feet)	Primary (cfs)
169.46	9.79
169.47	10.00
169.48	10.21
169.49	10.42
169.50	10.64
169.51	10.85
169.52	11.07
169.53	11.29
169.54	11.51
169.55	11.73
169.56	11.95
169.57	12.18
169.58	12.40
169.59	12.63
169.60	12.86
169.61	13.09
169.62	13.32
169.63	13.55
169.64	13.78
169.65	14.02
169.66	14.25
169.67	14.49
169.68	14.73
169.69	14.97
169.70	15.21
169.71	15.45
169.72	15.69
169.73	15.94
169.74	16.18
169.75	16.37
169.76	16.39
169.77	16.41
169.78	16.43
169.79	16.46
169.80	16.48
169.81	16.50
169.82	16.52
169.83	16.54
169.84	16.56
169.85	16.59
169.86	16.61
169.87	16.63
169.88	16.65
169.89	16.67
169.90	16.70
169.91	16.72
169.92	16.74
169.93	16.76
169.94	16.78
169.95	16.80
169.96	16.82
169.97	16.85
169.98	16.99
169.99	17.22
170.00	**17.52**

Stage-Area-Storage for Pond B-45: Basin #45

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
165.30	0	0	165.82	2,821	733
165.31	54	0	165.83	2,875	762
165.32	108	1	165.84	2,929	791
165.33	163	2	165.85	2,983	820
165.34	217	4	165.86	3,038	851
165.35	271	7	165.87	3,092	881
165.36	325	10	165.88	3,146	912
165.37	380	13	165.89	3,200	944
165.38	434	17	165.90	3,255	976
165.39	488	22	165.91	3,309	1,009
165.40	542	27	165.92	3,363	1,043
165.41	597	33	165.93	3,417	1,076
165.42	651	39	165.94	3,472	1,111
165.43	705	46	165.95	3,526	1,146
165.44	759	53	165.96	3,580	1,181
165.45	814	61	165.97	3,634	1,217
165.46	868	69	165.98	3,689	1,254
165.47	922	78	165.99	3,743	1,291
165.48	976	88	166.00	3,797	1,329
165.49	1,031	98	166.01	3,803	1,367
165.50	1,085	108	166.02	3,808	1,405
165.51	1,139	120	166.03	3,814	1,443
165.52	1,193	131	166.04	3,820	1,481
165.53	1,248	143	166.05	3,826	1,520
165.54	1,302	156	166.06	3,831	1,558
165.55	1,356	170	166.07	3,837	1,596
165.56	1,410	183	166.08	3,843	1,635
165.57	1,465	198	166.09	3,849	1,673
165.58	1,519	213	166.10	3,854	1,712
165.59	1,573	228	166.11	3,860	1,750
165.60	1,627	244	166.12	3,866	1,789
165.61	1,682	261	166.13	3,871	1,827
165.62	1,736	278	166.14	3,877	1,866
165.63	1,790	295	166.15	3,883	1,905
165.64	1,844	314	166.16	3,889	1,944
165.65	1,899	332	166.17	3,894	1,983
165.66	1,953	351	166.18	3,900	2,022
165.67	2,007	371	166.19	3,906	2,061
165.68	2,061	392	166.20	3,912	2,100
165.69	2,115	413	166.21	3,917	2,139
165.70	2,170	434	166.22	3,923	2,178
165.71	2,224	456	166.23	3,929	2,217
165.72	2,278	478	166.24	3,935	2,257
165.73	2,332	501	166.25	3,940	2,296
165.74	2,387	525	166.26	3,946	2,336
165.75	2,441	549	166.27	3,952	2,375
165.76	2,495	574	166.28	3,957	2,415
165.77	2,549	599	166.29	3,963	2,454
165.78	2,604	625	166.30	3,969	2,494
165.79	2,658	651	166.31	3,975	2,534
165.80	2,712	678	166.32	3,980	2,573
165.81	2,766	705	166.33	3,986	2,613

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
166.34	3,992	2,653
166.35	3,998	2,693
166.36	4,003	2,733
166.37	4,009	2,773
166.38	4,015	2,813
166.39	4,020	2,853
166.40	4,026	2,894
166.41	4,032	2,934
166.42	4,038	2,974
166.43	4,043	3,015
166.44	4,049	3,055
166.45	4,055	3,096
166.46	4,061	3,136
166.47	4,066	3,177
166.48	4,072	3,218
166.49	4,078	3,258
166.50	4,084	3,299
166.51	4,089	3,340
166.52	4,095	3,381
166.53	4,101	3,422
166.54	4,106	3,463
166.55	4,112	3,504
166.56	4,118	3,545
166.57	4,124	3,586
166.58	4,129	3,628
166.59	4,135	3,669
166.60	4,141	3,710
166.61	4,147	3,752
166.62	4,152	3,793
166.63	4,158	3,835
166.64	4,164	3,876
166.65	4,169	3,918
166.66	4,175	3,960
166.67	4,181	4,002
166.68	4,187	4,043
166.69	4,192	4,085
166.70	4,198	4,127
166.71	4,204	4,169
166.72	4,210	4,211
166.73	4,215	4,253
166.74	4,221	4,296
166.75	4,227	4,338
166.76	4,232	4,380
166.77	4,238	4,423
166.78	4,244	4,465
166.79	4,250	4,507
166.80	4,255	4,550
166.81	4,261	4,592
166.82	4,267	4,635
166.83	4,273	4,678
166.84	4,278	4,721
166.85	4,284	4,763
166.86	4,290	4,806
166.87	4,296	4,849
166.88	4,301	4,892
166.89	4,307	4,935
166.90	4,313	4,978
166.91	4,318	5,021
166.92	4,324	5,065
166.93	4,330	5,108
166.94	4,336	5,151
166.95	4,341	5,195
166.96	4,347	5,238
166.97	4,353	5,282
166.98	4,359	5,325
166.99	4,364	5,369
167.00	4,370	5,412
167.01	4,376	5,456
167.02	4,382	5,500
167.03	4,388	5,544
167.04	4,394	5,588
167.05	4,400	5,632
167.06	4,406	5,676
167.07	4,412	5,720
167.08	4,418	5,764
167.09	4,424	5,808
167.10	4,430	5,852
167.11	4,436	5,897
167.12	4,442	5,941
167.13	4,448	5,986
167.14	4,454	6,030
167.15	4,460	6,075
167.16	4,466	6,119
167.17	4,471	6,164
167.18	4,477	6,209
167.19	4,483	6,254
167.20	4,489	6,298
167.21	4,495	6,343
167.22	4,501	6,388
167.23	4,507	6,433
167.24	4,513	6,478
167.25	4,519	6,524
167.26	4,525	6,569
167.27	4,531	6,614
167.28	4,537	6,659
167.29	4,543	6,705
167.30	4,549	6,750
167.31	4,555	6,796
167.32	4,561	6,841
167.33	4,567	6,887
167.34	4,573	6,933
167.35	4,579	6,979
167.36	4,585	7,024
167.37	4,591	7,070

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
167.38	4,597	7,116	167.90	4,907	9,587
167.39	4,603	7,162	167.91	4,913	9,636
167.40	4,609	7,208	167.92	4,919	9,686
167.41	4,615	7,254	167.93	4,925	9,735
167.42	4,621	7,301	167.94	4,931	9,784
167.43	4,627	7,347	167.95	4,937	9,833
167.44	4,633	7,393	167.96	4,943	9,883
167.45	4,639	7,439	167.97	4,949	9,932
167.46	4,645	7,486	167.98	4,955	9,982
167.47	4,651	7,532	167.99	4,961	10,031
167.48	4,657	7,579	168.00	4,967	10,081
167.49	4,663	7,625	168.01	4,973	10,131
167.50	4,669	7,672	168.02	4,979	10,180
167.51	4,674	7,719	168.03	4,986	10,230
167.52	4,680	7,766	168.04	4,992	10,280
167.53	4,686	7,812	168.05	4,998	10,330
167.54	4,692	7,859	168.06	5,004	10,380
167.55	4,698	7,906	168.07	5,010	10,430
167.56	4,704	7,953	168.08	5,017	10,480
167.57	4,710	8,000	168.09	5,023	10,530
167.58	4,716	8,047	168.10	5,029	10,581
167.59	4,722	8,095	168.11	5,035	10,631
167.60	4,728	8,142	168.12	5,042	10,681
167.61	4,734	8,189	168.13	5,048	10,732
167.62	4,740	8,237	168.14	5,054	10,782
167.63	4,746	8,284	168.15	5,060	10,833
167.64	4,752	8,332	168.16	5,066	10,884
167.65	4,758	8,379	168.17	5,073	10,934
167.66	4,764	8,427	168.18	5,079	10,985
167.67	4,770	8,474	168.19	5,085	11,036
167.68	4,776	8,522	168.20	5,091	11,087
167.69	4,782	8,570	168.21	5,097	11,138
167.70	4,788	8,618	168.22	5,104	11,189
167.71	4,794	8,666	168.23	5,110	11,240
167.72	4,800	8,714	168.24	5,116	11,291
167.73	4,806	8,762	168.25	5,122	11,342
167.74	4,812	8,810	168.26	5,128	11,393
167.75	4,818	8,858	168.27	5,135	11,445
167.76	4,824	8,906	168.28	5,141	11,496
167.77	4,830	8,954	168.29	5,147	11,547
167.78	4,836	9,003	168.30	5,153	11,599
167.79	4,842	9,051	168.31	5,160	11,651
167.80	4,848	9,099	168.32	5,166	11,702
167.81	4,854	9,148	168.33	5,172	11,754
167.82	4,860	9,197	168.34	5,178	11,806
167.83	4,866	9,245	168.35	5,184	11,857
167.84	4,871	9,294	168.36	5,191	11,909
167.85	4,877	9,343	168.37	5,197	11,961
167.86	4,883	9,391	168.38	5,203	12,013
167.87	4,889	9,440	168.39	5,209	12,065
167.88	4,895	9,489	168.40	5,215	12,117
167.89	4,901	9,538	168.41	5,222	12,170

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
168.42	5,228	12,222	168.94	5,551	15,024
168.43	5,234	12,274	168.95	5,557	15,080
168.44	5,240	12,327	168.96	5,563	15,135
168.45	5,246	12,379	168.97	5,569	15,191
168.46	5,253	12,431	168.98	5,576	15,247
168.47	5,259	12,484	168.99	5,582	15,303
168.48	5,265	12,537	169.00	5,588	15,358
168.49	5,271	12,589	169.01	5,594	15,414
168.50	5,278	12,642	169.02	5,601	15,470
168.51	5,284	12,695	169.03	5,607	15,526
168.52	5,290	12,748	169.04	5,614	15,582
168.53	5,296	12,801	169.05	5,620	15,639
168.54	5,302	12,854	169.06	5,627	15,695
168.55	5,309	12,907	169.07	5,633	15,751
168.56	5,315	12,960	169.08	5,640	15,808
168.57	5,321	13,013	169.09	5,646	15,864
168.58	5,327	13,066	169.10	5,653	15,920
168.59	5,333	13,120	169.11	5,659	15,977
168.60	5,340	13,173	169.12	5,666	16,034
168.61	5,346	13,226	169.13	5,672	16,090
168.62	5,352	13,280	169.14	5,679	16,147
168.63	5,358	13,333	169.15	5,685	16,204
168.64	5,364	13,387	169.16	5,692	16,261
168.65	5,371	13,441	169.17	5,698	16,318
168.66	5,377	13,494	169.18	5,704	16,375
168.67	5,383	13,548	169.19	5,711	16,432
168.68	5,389	13,602	169.20	5,717	16,489
168.69	5,395	13,656	169.21	5,724	16,546
168.70	5,402	13,710	169.22	5,730	16,603
168.71	5,408	13,764	169.23	5,737	16,661
168.72	5,414	13,818	169.24	5,743	16,718
168.73	5,420	13,872	169.25	5,750	16,776
168.74	5,427	13,927	169.26	5,756	16,833
168.75	5,433	13,981	169.27	5,763	16,891
168.76	5,439	14,035	169.28	5,769	16,948
168.77	5,445	14,090	169.29	5,776	17,006
168.78	5,451	14,144	169.30	5,782	17,064
168.79	5,458	14,199	169.31	5,789	17,122
168.80	5,464	14,253	169.32	5,795	17,180
168.81	5,470	14,308	169.33	5,802	17,238
168.82	5,476	14,363	169.34	5,808	17,296
168.83	5,482	14,417	169.35	5,814	17,354
168.84	5,489	14,472	169.36	5,821	17,412
168.85	5,495	14,527	169.37	5,827	17,470
168.86	5,501	14,582	169.38	5,834	17,529
168.87	5,507	14,637	169.39	5,840	17,587
168.88	5,513	14,692	169.40	5,847	17,645
168.89	5,520	14,748	169.41	5,853	17,704
168.90	5,526	14,803	169.42	5,860	17,762
168.91	5,532	14,858	169.43	5,866	17,821
168.92	5,538	14,913	169.44	5,873	17,880
168.93	5,545	14,969	169.45	5,879	17,939

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.46	5,886	17,997
169.47	5,892	18,056
169.48	5,899	18,115
169.49	5,905	18,174
169.50	5,912	18,233
169.51	5,918	18,292
169.52	5,924	18,352
169.53	5,931	18,411
169.54	5,937	18,470
169.55	5,944	18,530
169.56	5,950	18,589
169.57	5,957	18,649
169.58	5,963	18,708
169.59	5,970	18,768
169.60	5,976	18,828
169.61	5,983	18,888
169.62	5,989	18,947
169.63	5,996	19,007
169.64	6,002	19,067
169.65	6,009	19,127
169.66	6,015	19,187
169.67	6,021	19,248
169.68	6,028	19,308
169.69	6,034	19,368
169.70	6,041	19,429
169.71	6,047	19,489
169.72	6,054	19,550
169.73	6,060	19,610
169.74	6,067	19,671
169.75	6,073	19,731
169.76	6,080	19,792
169.77	6,086	19,853
169.78	6,093	19,914
169.79	6,099	19,975
169.80	6,106	20,036
169.81	6,112	20,097
169.82	6,119	20,158
169.83	6,125	20,219
169.84	6,131	20,281
169.85	6,138	20,342
169.86	6,144	20,403
169.87	6,151	20,465
169.88	6,157	20,526
169.89	6,164	20,588
169.90	6,170	20,650
169.91	6,177	20,711
169.92	6,183	20,773
169.93	6,190	20,835
169.94	6,196	20,897
169.95	6,203	20,959
169.96	6,209	21,021
169.97	6,216	21,083
169.98	6,222	21,145
169.99	6,229	21,208
170.00	**6,235**	**21,270**

Summary for Pond B-46A: Basin #46A

Inflow Area = 2.480 ac, 46.25% Impervious, Inflow Depth = 3.56" for Current 10 yr event
Inflow = 8.92 cfs @ 12.17 hrs, Volume= 0.736 af
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Pond B-46B : Basin #46B

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 184.40' @ 24.60 hrs Surf.Area= 13,154 sf Storage= 32,074 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

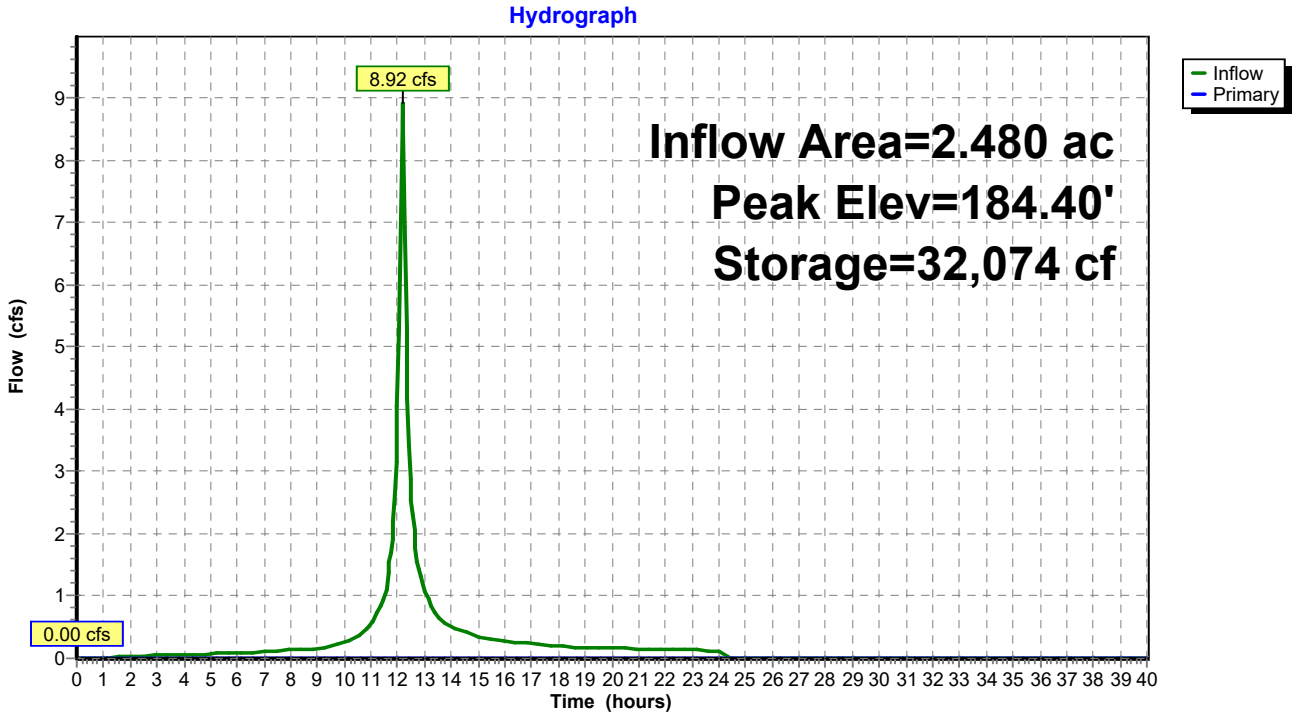
Volume	Invert	Avail.Storage	Storage Description
#1	181.00'	90,351 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
181.00	6,639	0	0
182.00	7,998	7,319	7,319
183.00	9,413	8,706	16,024
184.00	12,515	10,964	26,988
185.00	14,128	13,322	40,310
186.00	15,798	14,963	55,273
187.00	17,524	16,661	71,934
188.00	19,310	18,417	90,351

Device	Routing	Invert	Outlet Devices
#1	Primary	187.50'	**50.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s) 0.5' Crest Height

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=181.00' (Free Discharge)
1=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-46A: Basin #46A



Stage-Discharge for Pond B-46A: Basin #46A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.00	0.00	181.52	0.00	182.04	0.00	182.56	0.00
181.01	0.00	181.53	0.00	182.05	0.00	182.57	0.00
181.02	0.00	181.54	0.00	182.06	0.00	182.58	0.00
181.03	0.00	181.55	0.00	182.07	0.00	182.59	0.00
181.04	0.00	181.56	0.00	182.08	0.00	182.60	0.00
181.05	0.00	181.57	0.00	182.09	0.00	182.61	0.00
181.06	0.00	181.58	0.00	182.10	0.00	182.62	0.00
181.07	0.00	181.59	0.00	182.11	0.00	182.63	0.00
181.08	0.00	181.60	0.00	182.12	0.00	182.64	0.00
181.09	0.00	181.61	0.00	182.13	0.00	182.65	0.00
181.10	0.00	181.62	0.00	182.14	0.00	182.66	0.00
181.11	0.00	181.63	0.00	182.15	0.00	182.67	0.00
181.12	0.00	181.64	0.00	182.16	0.00	182.68	0.00
181.13	0.00	181.65	0.00	182.17	0.00	182.69	0.00
181.14	0.00	181.66	0.00	182.18	0.00	182.70	0.00
181.15	0.00	181.67	0.00	182.19	0.00	182.71	0.00
181.16	0.00	181.68	0.00	182.20	0.00	182.72	0.00
181.17	0.00	181.69	0.00	182.21	0.00	182.73	0.00
181.18	0.00	181.70	0.00	182.22	0.00	182.74	0.00
181.19	0.00	181.71	0.00	182.23	0.00	182.75	0.00
181.20	0.00	181.72	0.00	182.24	0.00	182.76	0.00
181.21	0.00	181.73	0.00	182.25	0.00	182.77	0.00
181.22	0.00	181.74	0.00	182.26	0.00	182.78	0.00
181.23	0.00	181.75	0.00	182.27	0.00	182.79	0.00
181.24	0.00	181.76	0.00	182.28	0.00	182.80	0.00
181.25	0.00	181.77	0.00	182.29	0.00	182.81	0.00
181.26	0.00	181.78	0.00	182.30	0.00	182.82	0.00
181.27	0.00	181.79	0.00	182.31	0.00	182.83	0.00
181.28	0.00	181.80	0.00	182.32	0.00	182.84	0.00
181.29	0.00	181.81	0.00	182.33	0.00	182.85	0.00
181.30	0.00	181.82	0.00	182.34	0.00	182.86	0.00
181.31	0.00	181.83	0.00	182.35	0.00	182.87	0.00
181.32	0.00	181.84	0.00	182.36	0.00	182.88	0.00
181.33	0.00	181.85	0.00	182.37	0.00	182.89	0.00
181.34	0.00	181.86	0.00	182.38	0.00	182.90	0.00
181.35	0.00	181.87	0.00	182.39	0.00	182.91	0.00
181.36	0.00	181.88	0.00	182.40	0.00	182.92	0.00
181.37	0.00	181.89	0.00	182.41	0.00	182.93	0.00
181.38	0.00	181.90	0.00	182.42	0.00	182.94	0.00
181.39	0.00	181.91	0.00	182.43	0.00	182.95	0.00
181.40	0.00	181.92	0.00	182.44	0.00	182.96	0.00
181.41	0.00	181.93	0.00	182.45	0.00	182.97	0.00
181.42	0.00	181.94	0.00	182.46	0.00	182.98	0.00
181.43	0.00	181.95	0.00	182.47	0.00	182.99	0.00
181.44	0.00	181.96	0.00	182.48	0.00	183.00	0.00
181.45	0.00	181.97	0.00	182.49	0.00	183.01	0.00
181.46	0.00	181.98	0.00	182.50	0.00	183.02	0.00
181.47	0.00	181.99	0.00	182.51	0.00	183.03	0.00
181.48	0.00	182.00	0.00	182.52	0.00	183.04	0.00
181.49	0.00	182.01	0.00	182.53	0.00	183.05	0.00
181.50	0.00	182.02	0.00	182.54	0.00	183.06	0.00
181.51	0.00	182.03	0.00	182.55	0.00	183.07	0.00

Stage-Discharge for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.08	0.00	183.60	0.00	184.12	0.00	184.64	0.00
183.09	0.00	183.61	0.00	184.13	0.00	184.65	0.00
183.10	0.00	183.62	0.00	184.14	0.00	184.66	0.00
183.11	0.00	183.63	0.00	184.15	0.00	184.67	0.00
183.12	0.00	183.64	0.00	184.16	0.00	184.68	0.00
183.13	0.00	183.65	0.00	184.17	0.00	184.69	0.00
183.14	0.00	183.66	0.00	184.18	0.00	184.70	0.00
183.15	0.00	183.67	0.00	184.19	0.00	184.71	0.00
183.16	0.00	183.68	0.00	184.20	0.00	184.72	0.00
183.17	0.00	183.69	0.00	184.21	0.00	184.73	0.00
183.18	0.00	183.70	0.00	184.22	0.00	184.74	0.00
183.19	0.00	183.71	0.00	184.23	0.00	184.75	0.00
183.20	0.00	183.72	0.00	184.24	0.00	184.76	0.00
183.21	0.00	183.73	0.00	184.25	0.00	184.77	0.00
183.22	0.00	183.74	0.00	184.26	0.00	184.78	0.00
183.23	0.00	183.75	0.00	184.27	0.00	184.79	0.00
183.24	0.00	183.76	0.00	184.28	0.00	184.80	0.00
183.25	0.00	183.77	0.00	184.29	0.00	184.81	0.00
183.26	0.00	183.78	0.00	184.30	0.00	184.82	0.00
183.27	0.00	183.79	0.00	184.31	0.00	184.83	0.00
183.28	0.00	183.80	0.00	184.32	0.00	184.84	0.00
183.29	0.00	183.81	0.00	184.33	0.00	184.85	0.00
183.30	0.00	183.82	0.00	184.34	0.00	184.86	0.00
183.31	0.00	183.83	0.00	184.35	0.00	184.87	0.00
183.32	0.00	183.84	0.00	184.36	0.00	184.88	0.00
183.33	0.00	183.85	0.00	184.37	0.00	184.89	0.00
183.34	0.00	183.86	0.00	184.38	0.00	184.90	0.00
183.35	0.00	183.87	0.00	184.39	0.00	184.91	0.00
183.36	0.00	183.88	0.00	184.40	0.00	184.92	0.00
183.37	0.00	183.89	0.00	184.41	0.00	184.93	0.00
183.38	0.00	183.90	0.00	184.42	0.00	184.94	0.00
183.39	0.00	183.91	0.00	184.43	0.00	184.95	0.00
183.40	0.00	183.92	0.00	184.44	0.00	184.96	0.00
183.41	0.00	183.93	0.00	184.45	0.00	184.97	0.00
183.42	0.00	183.94	0.00	184.46	0.00	184.98	0.00
183.43	0.00	183.95	0.00	184.47	0.00	184.99	0.00
183.44	0.00	183.96	0.00	184.48	0.00	185.00	0.00
183.45	0.00	183.97	0.00	184.49	0.00	185.01	0.00
183.46	0.00	183.98	0.00	184.50	0.00	185.02	0.00
183.47	0.00	183.99	0.00	184.51	0.00	185.03	0.00
183.48	0.00	184.00	0.00	184.52	0.00	185.04	0.00
183.49	0.00	184.01	0.00	184.53	0.00	185.05	0.00
183.50	0.00	184.02	0.00	184.54	0.00	185.06	0.00
183.51	0.00	184.03	0.00	184.55	0.00	185.07	0.00
183.52	0.00	184.04	0.00	184.56	0.00	185.08	0.00
183.53	0.00	184.05	0.00	184.57	0.00	185.09	0.00
183.54	0.00	184.06	0.00	184.58	0.00	185.10	0.00
183.55	0.00	184.07	0.00	184.59	0.00	185.11	0.00
183.56	0.00	184.08	0.00	184.60	0.00	185.12	0.00
183.57	0.00	184.09	0.00	184.61	0.00	185.13	0.00
183.58	0.00	184.10	0.00	184.62	0.00	185.14	0.00
183.59	0.00	184.11	0.00	184.63	0.00	185.15	0.00

Stage-Discharge for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.16	0.00	185.68	0.00	186.20	0.00	186.72	0.00
185.17	0.00	185.69	0.00	186.21	0.00	186.73	0.00
185.18	0.00	185.70	0.00	186.22	0.00	186.74	0.00
185.19	0.00	185.71	0.00	186.23	0.00	186.75	0.00
185.20	0.00	185.72	0.00	186.24	0.00	186.76	0.00
185.21	0.00	185.73	0.00	186.25	0.00	186.77	0.00
185.22	0.00	185.74	0.00	186.26	0.00	186.78	0.00
185.23	0.00	185.75	0.00	186.27	0.00	186.79	0.00
185.24	0.00	185.76	0.00	186.28	0.00	186.80	0.00
185.25	0.00	185.77	0.00	186.29	0.00	186.81	0.00
185.26	0.00	185.78	0.00	186.30	0.00	186.82	0.00
185.27	0.00	185.79	0.00	186.31	0.00	186.83	0.00
185.28	0.00	185.80	0.00	186.32	0.00	186.84	0.00
185.29	0.00	185.81	0.00	186.33	0.00	186.85	0.00
185.30	0.00	185.82	0.00	186.34	0.00	186.86	0.00
185.31	0.00	185.83	0.00	186.35	0.00	186.87	0.00
185.32	0.00	185.84	0.00	186.36	0.00	186.88	0.00
185.33	0.00	185.85	0.00	186.37	0.00	186.89	0.00
185.34	0.00	185.86	0.00	186.38	0.00	186.90	0.00
185.35	0.00	185.87	0.00	186.39	0.00	186.91	0.00
185.36	0.00	185.88	0.00	186.40	0.00	186.92	0.00
185.37	0.00	185.89	0.00	186.41	0.00	186.93	0.00
185.38	0.00	185.90	0.00	186.42	0.00	186.94	0.00
185.39	0.00	185.91	0.00	186.43	0.00	186.95	0.00
185.40	0.00	185.92	0.00	186.44	0.00	186.96	0.00
185.41	0.00	185.93	0.00	186.45	0.00	186.97	0.00
185.42	0.00	185.94	0.00	186.46	0.00	186.98	0.00
185.43	0.00	185.95	0.00	186.47	0.00	186.99	0.00
185.44	0.00	185.96	0.00	186.48	0.00	187.00	0.00
185.45	0.00	185.97	0.00	186.49	0.00	187.01	0.00
185.46	0.00	185.98	0.00	186.50	0.00	187.02	0.00
185.47	0.00	185.99	0.00	186.51	0.00	187.03	0.00
185.48	0.00	186.00	0.00	186.52	0.00	187.04	0.00
185.49	0.00	186.01	0.00	186.53	0.00	187.05	0.00
185.50	0.00	186.02	0.00	186.54	0.00	187.06	0.00
185.51	0.00	186.03	0.00	186.55	0.00	187.07	0.00
185.52	0.00	186.04	0.00	186.56	0.00	187.08	0.00
185.53	0.00	186.05	0.00	186.57	0.00	187.09	0.00
185.54	0.00	186.06	0.00	186.58	0.00	187.10	0.00
185.55	0.00	186.07	0.00	186.59	0.00	187.11	0.00
185.56	0.00	186.08	0.00	186.60	0.00	187.12	0.00
185.57	0.00	186.09	0.00	186.61	0.00	187.13	0.00
185.58	0.00	186.10	0.00	186.62	0.00	187.14	0.00
185.59	0.00	186.11	0.00	186.63	0.00	187.15	0.00
185.60	0.00	186.12	0.00	186.64	0.00	187.16	0.00
185.61	0.00	186.13	0.00	186.65	0.00	187.17	0.00
185.62	0.00	186.14	0.00	186.66	0.00	187.18	0.00
185.63	0.00	186.15	0.00	186.67	0.00	187.19	0.00
185.64	0.00	186.16	0.00	186.68	0.00	187.20	0.00
185.65	0.00	186.17	0.00	186.69	0.00	187.21	0.00
185.66	0.00	186.18	0.00	186.70	0.00	187.22	0.00
185.67	0.00	186.19	0.00	186.71	0.00	187.23	0.00

Stage-Discharge for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Primary (cfs)
187.24	0.00
187.25	0.00
187.26	0.00
187.27	0.00
187.28	0.00
187.29	0.00
187.30	0.00
187.31	0.00
187.32	0.00
187.33	0.00
187.34	0.00
187.35	0.00
187.36	0.00
187.37	0.00
187.38	0.00
187.39	0.00
187.40	0.00
187.41	0.00
187.42	0.00
187.43	0.00
187.44	0.00
187.45	0.00
187.46	0.00
187.47	0.00
187.48	0.00
187.49	0.00
187.50	0.00
187.51	0.16
187.52	0.46
187.53	0.86
187.54	1.32
187.55	1.85
187.56	2.44
187.57	3.08
187.58	3.77
187.59	4.51
187.60	5.29
187.61	6.12
187.62	6.99
187.63	7.90
187.64	8.85
187.65	9.84
187.66	10.87
187.67	11.93
187.68	13.03
187.69	14.16
187.70	15.33
187.71	16.53
187.72	17.76
187.73	19.03
187.74	20.33
187.75	21.67
187.76	23.03
187.77	24.43
187.78	25.85
187.79	27.31
187.80	28.80
187.81	30.32
187.82	31.87
187.83	33.45
187.84	35.06
187.85	36.70
187.86	38.37
187.87	40.07
187.88	41.80
187.89	43.55
187.90	45.34
187.91	47.15
187.92	48.99
187.93	50.86
187.94	52.76
187.95	54.69
187.96	56.65
187.97	58.63
187.98	60.64
187.99	62.68
188.00	**64.75**

Stage-Area-Storage for Pond B-46A: Basin #46A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.00	6,639	0	181.52	7,346	3,636
181.01	6,653	66	181.53	7,359	3,710
181.02	6,666	133	181.54	7,373	3,783
181.03	6,680	200	181.55	7,386	3,857
181.04	6,693	267	181.56	7,400	3,931
181.05	6,707	334	181.57	7,414	4,005
181.06	6,721	401	181.58	7,427	4,079
181.07	6,734	468	181.59	7,441	4,154
181.08	6,748	535	181.60	7,454	4,228
181.09	6,761	603	181.61	7,468	4,303
181.10	6,775	671	181.62	7,482	4,377
181.11	6,788	739	181.63	7,495	4,452
181.12	6,802	806	181.64	7,509	4,527
181.13	6,816	875	181.65	7,522	4,602
181.14	6,829	943	181.66	7,536	4,678
181.15	6,843	1,011	181.67	7,550	4,753
181.16	6,856	1,080	181.68	7,563	4,829
181.17	6,870	1,148	181.69	7,577	4,904
181.18	6,884	1,217	181.70	7,590	4,980
181.19	6,897	1,286	181.71	7,604	5,056
181.20	6,911	1,355	181.72	7,617	5,132
181.21	6,924	1,424	181.73	7,631	5,209
181.22	6,938	1,493	181.74	7,645	5,285
181.23	6,952	1,563	181.75	7,658	5,361
181.24	6,965	1,632	181.76	7,672	5,438
181.25	6,979	1,702	181.77	7,685	5,515
181.26	6,992	1,772	181.78	7,699	5,592
181.27	7,006	1,842	181.79	7,713	5,669
181.28	7,020	1,912	181.80	7,726	5,746
181.29	7,033	1,982	181.81	7,740	5,823
181.30	7,047	2,053	181.82	7,753	5,901
181.31	7,060	2,123	181.83	7,767	5,978
181.32	7,074	2,194	181.84	7,781	6,056
181.33	7,087	2,265	181.85	7,794	6,134
181.34	7,101	2,336	181.86	7,808	6,212
181.35	7,115	2,407	181.87	7,821	6,290
181.36	7,128	2,478	181.88	7,835	6,369
181.37	7,142	2,549	181.89	7,849	6,447
181.38	7,155	2,621	181.90	7,862	6,525
181.39	7,169	2,693	181.91	7,876	6,604
181.40	7,183	2,764	181.92	7,889	6,683
181.41	7,196	2,836	181.93	7,903	6,762
181.42	7,210	2,908	181.94	7,916	6,841
181.43	7,223	2,980	181.95	7,930	6,920
181.44	7,237	3,053	181.96	7,944	7,000
181.45	7,251	3,125	181.97	7,957	7,079
181.46	7,264	3,198	181.98	7,971	7,159
181.47	7,278	3,270	181.99	7,984	7,239
181.48	7,291	3,343	182.00	7,998	7,319
181.49	7,305	3,416	182.01	8,012	7,399
181.50	7,319	3,489	182.02	8,026	7,479
181.51	7,332	3,563	182.03	8,040	7,559

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.04	8,055	7,640	182.56	8,790	12,019
182.05	8,069	7,720	182.57	8,805	12,107
182.06	8,083	7,801	182.58	8,819	12,195
182.07	8,097	7,882	182.59	8,833	12,284
182.08	8,111	7,963	182.60	8,847	12,372
182.09	8,125	8,044	182.61	8,861	12,461
182.10	8,139	8,125	182.62	8,875	12,549
182.11	8,154	8,207	182.63	8,889	12,638
182.12	8,168	8,288	182.64	8,904	12,727
182.13	8,182	8,370	182.65	8,918	12,816
182.14	8,196	8,452	182.66	8,932	12,905
182.15	8,210	8,534	182.67	8,946	12,995
182.16	8,224	8,616	182.68	8,960	13,084
182.17	8,239	8,699	182.69	8,974	13,174
182.18	8,253	8,781	182.70	8,988	13,264
182.19	8,267	8,864	182.71	9,003	13,354
182.20	8,281	8,946	182.72	9,017	13,444
182.21	8,295	9,029	182.73	9,031	13,534
182.22	8,309	9,112	182.74	9,045	13,624
182.23	8,323	9,195	182.75	9,059	13,715
182.24	8,338	9,279	182.76	9,073	13,806
182.25	8,352	9,362	182.77	9,088	13,896
182.26	8,366	9,446	182.78	9,102	13,987
182.27	8,380	9,530	182.79	9,116	14,078
182.28	8,394	9,613	182.80	9,130	14,170
182.29	8,408	9,697	182.81	9,144	14,261
182.30	8,423	9,782	182.82	9,158	14,353
182.31	8,437	9,866	182.83	9,172	14,444
182.32	8,451	9,950	182.84	9,187	14,536
182.33	8,465	10,035	182.85	9,201	14,628
182.34	8,479	10,120	182.86	9,215	14,720
182.35	8,493	10,204	182.87	9,229	14,812
182.36	8,507	10,289	182.88	9,243	14,905
182.37	8,522	10,375	182.89	9,257	14,997
182.38	8,536	10,460	182.90	9,272	15,090
182.39	8,550	10,545	182.91	9,286	15,183
182.40	8,564	10,631	182.92	9,300	15,275
182.41	8,578	10,717	182.93	9,314	15,369
182.42	8,592	10,802	182.94	9,328	15,462
182.43	8,606	10,888	182.95	9,342	15,555
182.44	8,621	10,975	182.96	9,356	15,649
182.45	8,635	11,061	182.97	9,371	15,742
182.46	8,649	11,147	182.98	9,385	15,836
182.47	8,663	11,234	182.99	9,399	15,930
182.48	8,677	11,321	183.00	9,413	16,024
182.49	8,691	11,407	183.01	9,444	16,118
182.50	8,706	11,494	183.02	9,475	16,213
182.51	8,720	11,582	183.03	9,506	16,308
182.52	8,734	11,669	183.04	9,537	16,403
182.53	8,748	11,756	183.05	9,568	16,499
182.54	8,762	11,844	183.06	9,599	16,594
182.55	8,776	11,931	183.07	9,630	16,691

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.08	9,661	16,787	183.60	11,274	22,230
183.09	9,692	16,884	183.61	11,305	22,343
183.10	9,723	16,981	183.62	11,336	22,456
183.11	9,754	17,078	183.63	11,367	22,570
183.12	9,785	17,176	183.64	11,398	22,684
183.13	9,816	17,274	183.65	11,429	22,798
183.14	9,847	17,372	183.66	11,460	22,912
183.15	9,878	17,471	183.67	11,491	23,027
183.16	9,909	17,570	183.68	11,522	23,142
183.17	9,940	17,669	183.69	11,553	23,257
183.18	9,971	17,769	183.70	11,584	23,373
183.19	10,002	17,868	183.71	11,615	23,489
183.20	10,033	17,969	183.72	11,646	23,605
183.21	10,064	18,069	183.73	11,677	23,722
183.22	10,095	18,170	183.74	11,708	23,839
183.23	10,126	18,271	183.75	11,740	23,956
183.24	10,157	18,372	183.76	11,771	24,074
183.25	10,189	18,474	183.77	11,802	24,192
183.26	10,220	18,576	183.78	11,833	24,310
183.27	10,251	18,679	183.79	11,864	24,428
183.28	10,282	18,781	183.80	11,895	24,547
183.29	10,313	18,884	183.81	11,926	24,666
183.30	10,344	18,987	183.82	11,957	24,786
183.31	10,375	19,091	183.83	11,988	24,905
183.32	10,406	19,195	183.84	12,019	25,025
183.33	10,437	19,299	183.85	12,050	25,146
183.34	10,468	19,404	183.86	12,081	25,266
183.35	10,499	19,509	183.87	12,112	25,387
183.36	10,530	19,614	183.88	12,143	25,509
183.37	10,561	19,719	183.89	12,174	25,630
183.38	10,592	19,825	183.90	12,205	25,752
183.39	10,623	19,931	183.91	12,236	25,874
183.40	10,654	20,037	183.92	12,267	25,997
183.41	10,685	20,144	183.93	12,298	26,120
183.42	10,716	20,251	183.94	12,329	26,243
183.43	10,747	20,358	183.95	12,360	26,366
183.44	10,778	20,466	183.96	12,391	26,490
183.45	10,809	20,574	183.97	12,422	26,614
183.46	10,840	20,682	183.98	12,453	26,738
183.47	10,871	20,791	183.99	12,484	26,863
183.48	10,902	20,900	184.00	12,515	26,988
183.49	10,933	21,009	184.01	12,531	27,113
183.50	10,964	21,118	184.02	12,547	27,239
183.51	10,995	21,228	184.03	12,563	27,364
183.52	11,026	21,338	184.04	12,580	27,490
183.53	11,057	21,449	184.05	12,596	27,616
183.54	11,088	21,559	184.06	12,612	27,742
183.55	11,119	21,670	184.07	12,628	27,868
183.56	11,150	21,782	184.08	12,644	27,994
183.57	11,181	21,893	184.09	12,660	28,121
183.58	11,212	22,005	184.10	12,676	28,248
183.59	11,243	22,118	184.11	12,692	28,374

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.12	12,709	28,501
184.13	12,725	28,629
184.14	12,741	28,756
184.15	12,757	28,883
184.16	12,773	29,011
184.17	12,789	29,139
184.18	12,805	29,267
184.19	12,821	29,395
184.20	12,838	29,523
184.21	12,854	29,652
184.22	12,870	29,780
184.23	12,886	29,909
184.24	12,902	30,038
184.25	12,918	30,167
184.26	12,934	30,296
184.27	12,951	30,426
184.28	12,967	30,555
184.29	12,983	30,685
184.30	12,999	30,815
184.31	13,015	30,945
184.32	13,031	31,075
184.33	13,047	31,206
184.34	13,063	31,336
184.35	13,080	31,467
184.36	13,096	31,598
184.37	13,112	31,729
184.38	13,128	31,860
184.39	13,144	31,992
184.40	13,160	32,123
184.41	13,176	32,255
184.42	13,192	32,387
184.43	13,209	32,519
184.44	13,225	32,651
184.45	13,241	32,783
184.46	13,257	32,916
184.47	13,273	33,048
184.48	13,289	33,181
184.49	13,305	33,314
184.50	13,322	33,447
184.51	13,338	33,580
184.52	13,354	33,714
184.53	13,370	33,847
184.54	13,386	33,981
184.55	13,402	34,115
184.56	13,418	34,249
184.57	13,434	34,384
184.58	13,451	34,518
184.59	13,467	34,653
184.60	13,483	34,787
184.61	13,499	34,922
184.62	13,515	35,057
184.63	13,531	35,193
184.64	13,547	35,328
184.65	13,563	35,463
184.66	13,580	35,599
184.67	13,596	35,735
184.68	13,612	35,871
184.69	13,628	36,007
184.70	13,644	36,144
184.71	13,660	36,280
184.72	13,676	36,417
184.73	13,692	36,554
184.74	13,709	36,691
184.75	13,725	36,828
184.76	13,741	36,965
184.77	13,757	37,103
184.78	13,773	37,240
184.79	13,789	37,378
184.80	13,805	37,516
184.81	13,822	37,654
184.82	13,838	37,793
184.83	13,854	37,931
184.84	13,870	38,070
184.85	13,886	38,208
184.86	13,902	38,347
184.87	13,918	38,486
184.88	13,934	38,626
184.89	13,951	38,765
184.90	13,967	38,905
184.91	13,983	39,045
184.92	13,999	39,184
184.93	14,015	39,324
184.94	14,031	39,465
184.95	14,047	39,605
184.96	14,063	39,746
184.97	14,080	39,886
184.98	14,096	40,027
184.99	14,112	40,168
185.00	14,128	40,310
185.01	14,145	40,451
185.02	14,161	40,592
185.03	14,178	40,734
185.04	14,195	40,876
185.05	14,212	41,018
185.06	14,228	41,160
185.07	14,245	41,303
185.08	14,262	41,445
185.09	14,278	41,588
185.10	14,295	41,731
185.11	14,312	41,874
185.12	14,328	42,017
185.13	14,345	42,160
185.14	14,362	42,304
185.15	14,379	42,447

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.16	14,395	42,591
185.17	14,412	42,735
185.18	14,429	42,880
185.19	14,445	43,024
185.20	14,462	43,168
185.21	14,479	43,313
185.22	14,495	43,458
185.23	14,512	43,603
185.24	14,529	43,748
185.25	14,546	43,894
185.26	14,562	44,039
185.27	14,579	44,185
185.28	14,596	44,331
185.29	14,612	44,477
185.30	14,629	44,623
185.31	14,646	44,769
185.32	14,662	44,916
185.33	14,679	45,063
185.34	14,696	45,210
185.35	14,712	45,357
185.36	14,729	45,504
185.37	14,746	45,651
185.38	14,763	45,799
185.39	14,779	45,946
185.40	14,796	46,094
185.41	14,813	46,242
185.42	14,829	46,391
185.43	14,846	46,539
185.44	14,863	46,687
185.45	14,879	46,836
185.46	14,896	46,985
185.47	14,913	47,134
185.48	14,930	47,283
185.49	14,946	47,433
185.50	14,963	47,582
185.51	14,980	47,732
185.52	14,996	47,882
185.53	15,013	48,032
185.54	15,030	48,182
185.55	15,047	48,332
185.56	15,063	48,483
185.57	15,080	48,634
185.58	15,097	48,785
185.59	15,113	48,936
185.60	15,130	49,087
185.61	15,147	49,238
185.62	15,163	49,390
185.63	15,180	49,542
185.64	15,197	49,693
185.65	15,214	49,845
185.66	15,230	49,998
185.67	15,247	50,150
185.68	15,264	50,303
185.69	15,280	50,455
185.70	15,297	50,608
185.71	15,314	50,761
185.72	15,330	50,915
185.73	15,347	51,068
185.74	15,364	51,221
185.75	15,381	51,375
185.76	15,397	51,529
185.77	15,414	51,683
185.78	15,431	51,837
185.79	15,447	51,992
185.80	15,464	52,146
185.81	15,481	52,301
185.82	15,497	52,456
185.83	15,514	52,611
185.84	15,531	52,766
185.85	15,547	52,922
185.86	15,564	53,077
185.87	15,581	53,233
185.88	15,598	53,389
185.89	15,614	53,545
185.90	15,631	53,701
185.91	15,648	53,857
185.92	15,664	54,014
185.93	15,681	54,171
185.94	15,698	54,328
185.95	15,714	54,485
185.96	15,731	54,642
185.97	15,748	54,799
185.98	15,765	54,957
185.99	15,781	55,115
186.00	15,798	55,273
186.01	15,815	55,431
186.02	15,833	55,589
186.03	15,850	55,747
186.04	15,867	55,906
186.05	15,884	56,065
186.06	15,902	56,223
186.07	15,919	56,383
186.08	15,936	56,542
186.09	15,953	56,701
186.10	15,971	56,861
186.11	15,988	57,021
186.12	16,005	57,181
186.13	16,022	57,341
186.14	16,040	57,501
186.15	16,057	57,662
186.16	16,074	57,822
186.17	16,091	57,983
186.18	16,109	58,144
186.19	16,126	58,305

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.20	16,143	58,467	186.72	17,041	67,094
186.21	16,160	58,628	186.73	17,058	67,265
186.22	16,178	58,790	186.74	17,075	67,436
186.23	16,195	58,952	186.75	17,093	67,606
186.24	16,212	59,114	186.76	17,110	67,777
186.25	16,230	59,276	186.77	17,127	67,949
186.26	16,247	59,438	186.78	17,144	68,120
186.27	16,264	59,601	186.79	17,162	68,292
186.28	16,281	59,764	186.80	17,179	68,463
186.29	16,299	59,926	186.81	17,196	68,635
186.30	16,316	60,090	186.82	17,213	68,807
186.31	16,333	60,253	186.83	17,231	68,979
186.32	16,350	60,416	186.84	17,248	69,152
186.33	16,368	60,580	186.85	17,265	69,324
186.34	16,385	60,744	186.86	17,282	69,497
186.35	16,402	60,908	186.87	17,300	69,670
186.36	16,419	61,072	186.88	17,317	69,843
186.37	16,437	61,236	186.89	17,334	70,016
186.38	16,454	61,400	186.90	17,351	70,190
186.39	16,471	61,565	186.91	17,369	70,363
186.40	16,488	61,730	186.92	17,386	70,537
186.41	16,506	61,895	186.93	17,403	70,711
186.42	16,523	62,060	186.94	17,420	70,885
186.43	16,540	62,225	186.95	17,438	71,059
186.44	16,557	62,391	186.96	17,455	71,234
186.45	16,575	62,556	186.97	17,472	71,409
186.46	16,592	62,722	186.98	17,489	71,583
186.47	16,609	62,888	186.99	17,507	71,758
186.48	16,626	63,054	187.00	17,524	71,934
186.49	16,644	63,221	187.01	17,542	72,109
186.50	16,661	63,387	187.02	17,560	72,284
186.51	16,678	63,554	187.03	17,578	72,460
186.52	16,696	63,721	187.04	17,595	72,636
186.53	16,713	63,888	187.05	17,613	72,812
186.54	16,730	64,055	187.06	17,631	72,988
186.55	16,747	64,222	187.07	17,649	73,165
186.56	16,765	64,390	187.08	17,667	73,341
186.57	16,782	64,558	187.09	17,685	73,518
186.58	16,799	64,726	187.10	17,703	73,695
186.59	16,816	64,894	187.11	17,720	73,872
186.60	16,834	65,062	187.12	17,738	74,049
186.61	16,851	65,230	187.13	17,756	74,227
186.62	16,868	65,399	187.14	17,774	74,404
186.63	16,885	65,568	187.15	17,792	74,582
186.64	16,903	65,737	187.16	17,810	74,760
186.65	16,920	65,906	187.17	17,828	74,938
186.66	16,937	66,075	187.18	17,845	75,117
186.67	16,954	66,245	187.19	17,863	75,295
186.68	16,972	66,414	187.20	17,881	75,474
186.69	16,989	66,584	187.21	17,899	75,653
186.70	17,006	66,754	187.22	17,917	75,832
186.71	17,023	66,924	187.23	17,935	76,011

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.24	17,953	76,191
187.25	17,971	76,370
187.26	17,988	76,550
187.27	18,006	76,730
187.28	18,024	76,910
187.29	18,042	77,091
187.30	18,060	77,271
187.31	18,078	77,452
187.32	18,096	77,633
187.33	18,113	77,814
187.34	18,131	77,995
187.35	18,149	78,176
187.36	18,167	78,358
187.37	18,185	78,540
187.38	18,203	78,722
187.39	18,221	78,904
187.40	18,238	79,086
187.41	18,256	79,268
187.42	18,274	79,451
187.43	18,292	79,634
187.44	18,310	79,817
187.45	18,328	80,000
187.46	18,346	80,183
187.47	18,363	80,367
187.48	18,381	80,551
187.49	18,399	80,735
187.50	18,417	80,919
187.51	18,435	81,103
187.52	18,453	81,287
187.53	18,471	81,472
187.54	18,488	81,657
187.55	18,506	81,842
187.56	18,524	82,027
187.57	18,542	82,212
187.58	18,560	82,398
187.59	18,578	82,584
187.60	18,596	82,769
187.61	18,613	82,955
187.62	18,631	83,142
187.63	18,649	83,328
187.64	18,667	83,515
187.65	18,685	83,701
187.66	18,703	83,888
187.67	18,721	84,075
187.68	18,738	84,263
187.69	18,756	84,450
187.70	18,774	84,638
187.71	18,792	84,826
187.72	18,810	85,014
187.73	18,828	85,202
187.74	18,846	85,390
187.75	18,864	85,579
187.76	18,881	85,768
187.77	18,899	85,956
187.78	18,917	86,146
187.79	18,935	86,335
187.80	18,953	86,524
187.81	18,971	86,714
187.82	18,989	86,904
187.83	19,006	87,094
187.84	19,024	87,284
187.85	19,042	87,474
187.86	19,060	87,665
187.87	19,078	87,855
187.88	19,096	88,046
187.89	19,114	88,237
187.90	19,131	88,428
187.91	19,149	88,620
187.92	19,167	88,811
187.93	19,185	89,003
187.94	19,203	89,195
187.95	19,221	89,387
187.96	19,239	89,580
187.97	19,256	89,772
187.98	19,274	89,965
187.99	19,292	90,157
188.00	**19,310**	**90,351**

Summary for Pond B-46B: Basin #46B

Inflow Area = 2.931 ac, 39.13% Impervious, Inflow Depth = 0.38" for Current 10 yr event
Inflow = 1.62 cfs @ 12.05 hrs, Volume= 0.092 af
Outflow = 0.02 cfs @ 21.29 hrs, Volume= 0.033 af, Atten= 99%, Lag= 554.6 min
Primary = 0.02 cfs @ 21.29 hrs, Volume= 0.033 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 183.94' @ 21.29 hrs Surf.Area= 10,086 sf Storage= 3,219 cf

Plug-Flow detention time= 736.7 min calculated for 0.033 af (36% of inflow)
Center-of-Mass det. time= 607.4 min (1,441.7 - 834.3)

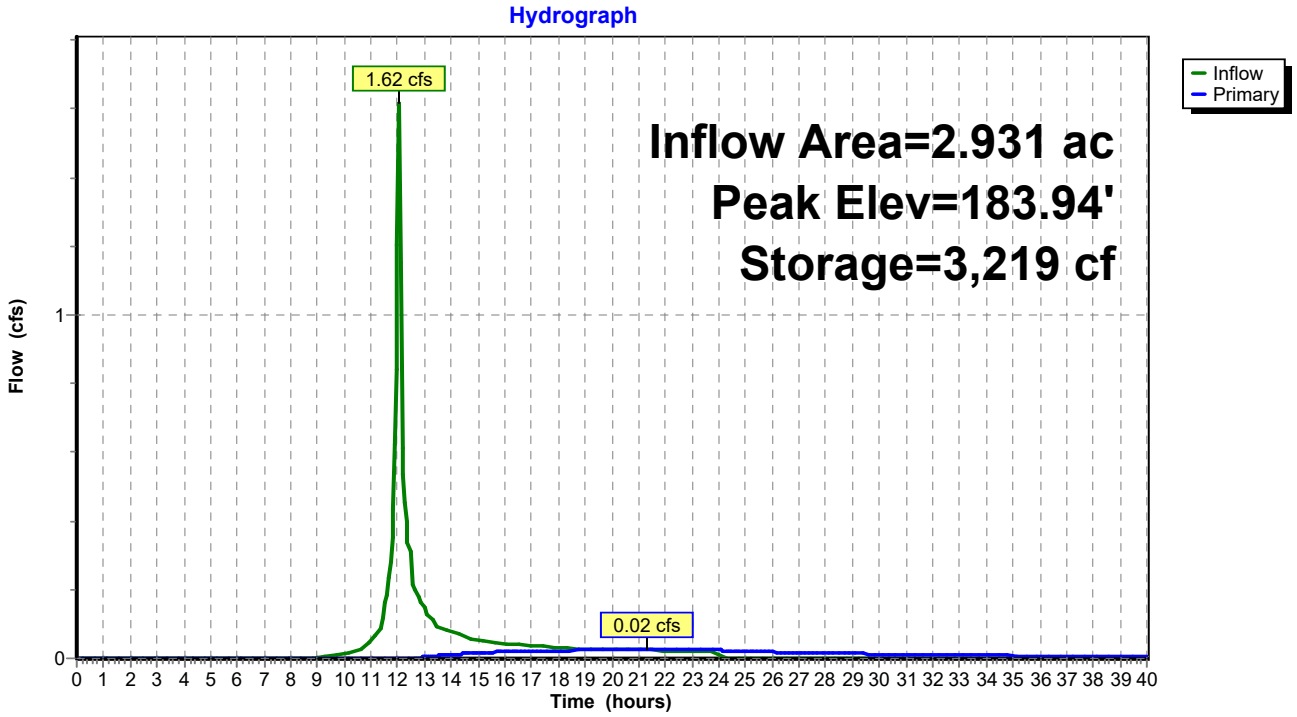
Volume	Invert	Avail.Storage	Storage Description
#1	183.30'	59,250 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
183.30	0	0	0
184.00	11,059	3,871	3,871
185.00	12,402	11,731	15,601
186.00	13,803	13,103	28,704
187.00	15,259	14,531	43,235
188.00	16,772	16,016	59,250

Device	Routing	Invert	Outlet Devices
#1	Primary	182.65'	**18.0" Round Culvert** L= 65.0' Ke= 0.500 Inlet / Outlet Invert= 182.65' / 176.00' S= 0.1023 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	183.82'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.45'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.75'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.02 cfs @ 21.29 hrs HW=183.94' (Free Discharge)
- **1=Culvert** (Passes 0.02 cfs of 6.24 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.02 cfs @ 1.17 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-46B: Basin #46B



Stage-Discharge for Pond B-46B: Basin #46B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.30	0.00	183.82	0.00	184.34	0.11	184.86	3.52
183.31	0.00	183.83	0.00	184.35	0.11	184.87	3.65
183.32	0.00	183.84	0.00	184.36	0.11	184.88	3.77
183.33	0.00	183.85	0.00	184.37	0.11	184.89	3.89
183.34	0.00	183.86	0.00	184.38	0.11	184.90	4.02
183.35	0.00	183.87	0.00	184.39	0.11	184.91	4.15
183.36	0.00	183.88	0.01	184.40	0.11	184.92	4.28
183.37	0.00	183.89	0.01	184.41	0.11	184.93	4.41
183.38	0.00	183.90	0.01	184.42	0.12	184.94	4.54
183.39	0.00	183.91	0.01	184.43	0.12	184.95	4.68
183.40	0.00	183.92	0.02	184.44	0.12	184.96	4.81
183.41	0.00	183.93	0.02	184.45	0.12	184.97	4.95
183.42	0.00	183.94	0.02	184.46	0.13	184.98	5.08
183.43	0.00	183.95	0.03	184.47	0.16	184.99	5.22
183.44	0.00	183.96	0.03	184.48	0.19	185.00	5.36
183.45	0.00	183.97	0.03	184.49	0.23	185.01	5.50
183.46	0.00	183.98	0.04	184.50	0.27	185.02	5.64
183.47	0.00	183.99	0.04	184.51	0.32	185.03	5.78
183.48	0.00	184.00	0.05	184.52	0.37	185.04	5.93
183.49	0.00	184.01	0.05	184.53	0.42	185.05	6.07
183.50	0.00	184.02	0.05	184.54	0.48	185.06	6.22
183.51	0.00	184.03	0.05	184.55	0.54	185.07	6.36
183.52	0.00	184.04	0.06	184.56	0.61	185.08	6.51
183.53	0.00	184.05	0.06	184.57	0.67	185.09	6.66
183.54	0.00	184.06	0.06	184.58	0.74	185.10	6.81
183.55	0.00	184.07	0.06	184.59	0.81	185.11	6.96
183.56	0.00	184.08	0.06	184.60	0.89	185.12	7.11
183.57	0.00	184.09	0.07	184.61	0.97	185.13	7.27
183.58	0.00	184.10	0.07	184.62	1.05	185.14	7.42
183.59	0.00	184.11	0.07	184.63	1.13	185.15	7.57
183.60	0.00	184.12	0.07	184.64	1.21	185.16	7.73
183.61	0.00	184.13	0.07	184.65	1.30	185.17	7.89
183.62	0.00	184.14	0.08	184.66	1.39	185.18	8.04
183.63	0.00	184.15	0.08	184.67	1.48	185.19	8.20
183.64	0.00	184.16	0.08	184.68	1.57	185.20	8.36
183.65	0.00	184.17	0.08	184.69	1.66	185.21	8.52
183.66	0.00	184.18	0.08	184.70	1.76	185.22	8.68
183.67	0.00	184.19	0.08	184.71	1.86	185.23	8.85
183.68	0.00	184.20	0.09	184.72	1.96	185.24	9.01
183.69	0.00	184.21	0.09	184.73	2.06	185.25	9.17
183.70	0.00	184.22	0.09	184.74	2.16	185.26	9.34
183.71	0.00	184.23	0.09	184.75	2.27	185.27	9.50
183.72	0.00	184.24	0.09	184.76	2.37	185.28	9.67
183.73	0.00	184.25	0.09	184.77	2.48	185.29	9.84
183.74	0.00	184.26	0.10	184.78	2.59	185.30	10.01
183.75	0.00	184.27	0.10	184.79	2.70	185.31	10.18
183.76	0.00	184.28	0.10	184.80	2.81	185.32	10.35
183.77	0.00	184.29	0.10	184.81	2.93	185.33	10.52
183.78	0.00	184.30	0.10	184.82	3.04	185.34	10.69
183.79	0.00	184.31	0.10	184.83	3.16	185.35	10.86
183.80	0.00	184.32	0.10	184.84	3.28	185.36	11.03
183.81	0.00	184.33	0.10	184.85	3.40	185.37	11.21

Stage-Discharge for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.38	11.38	185.90	20.30	186.42	91.01	186.94	198.59
185.39	11.56	185.91	21.03	186.43	92.75	186.95	200.94
185.40	11.74	185.92	21.78	186.44	94.51	186.96	203.32
185.41	11.91	185.93	22.55	186.45	96.28	186.97	205.72
185.42	12.09	185.94	23.34	186.46	98.06	186.98	208.13
185.43	12.12	185.95	24.15	186.47	99.86	186.99	210.55
185.44	12.15	185.96	25.03	186.48	101.66	187.00	212.98
185.45	12.18	185.97	25.92	186.49	103.49	187.01	215.43
185.46	12.21	185.98	26.85	186.50	105.32	187.02	217.88
185.47	12.24	185.99	27.80	186.51	107.16	187.03	220.34
185.48	12.27	186.00	28.77	186.52	109.02	187.04	222.82
185.49	12.30	186.01	29.77	186.53	110.89	187.05	225.30
185.50	12.33	186.02	30.80	186.54	112.77	187.06	227.79
185.51	12.36	186.03	31.85	186.55	114.67	187.07	230.30
185.52	12.39	186.04	32.92	186.56	116.61	187.08	232.82
185.53	12.42	186.05	34.02	186.57	118.57	187.09	235.34
185.54	12.45	186.06	35.14	186.58	120.54	187.10	237.88
185.55	12.48	186.07	36.29	186.59	122.52	187.11	240.42
185.56	12.51	186.08	37.46	186.60	124.52	187.12	242.98
185.57	12.53	186.09	38.66	186.61	126.53	187.13	245.55
185.58	12.56	186.10	39.88	186.62	128.55	187.14	248.13
185.59	12.59	186.11	41.12	186.63	130.58	187.15	250.71
185.60	12.62	186.12	42.39	186.64	132.63	187.16	253.36
185.61	12.65	186.13	43.68	186.65	134.69	187.17	256.01
185.62	12.68	186.14	45.00	186.66	136.77	187.18	258.67
185.63	12.71	186.15	46.34	186.67	138.85	187.19	261.35
185.64	12.73	186.16	47.73	186.68	140.95	187.20	264.04
185.65	12.76	186.17	49.15	186.69	143.07	187.21	266.74
185.66	12.79	186.18	50.59	186.70	145.19	187.22	269.45
185.67	12.82	186.19	52.06	186.71	147.33	187.23	272.17
185.68	12.85	186.20	53.56	186.72	149.48	187.24	274.90
185.69	12.88	186.21	55.08	186.73	151.64	187.25	277.64
185.70	12.90	186.22	56.63	186.74	153.82	187.26	280.39
185.71	12.93	186.23	58.20	186.75	156.01	187.27	283.16
185.72	12.96	186.24	59.80	186.76	158.15	187.28	285.93
185.73	12.99	186.25	61.43	186.77	160.31	187.29	288.72
185.74	13.02	186.26	63.08	186.78	162.48	187.30	291.52
185.75	13.04	186.27	64.76	186.79	164.66	187.31	294.32
185.76	13.19	186.28	66.47	186.80	166.85	187.32	297.14
185.77	13.43	186.29	68.20	186.81	169.05	187.33	299.97
185.78	13.74	186.30	69.96	186.82	171.26	187.34	302.81
185.79	14.09	186.31	71.75	186.83	173.48	187.35	305.67
185.80	14.49	186.32	73.56	186.84	175.71	187.36	308.53
185.81	14.93	186.33	75.40	186.85	177.95	187.37	311.40
185.82	15.41	186.34	77.27	186.86	180.21	187.38	314.29
185.83	15.92	186.35	79.16	186.87	182.47	187.39	317.18
185.84	16.46	186.36	80.82	186.88	184.74	187.40	320.09
185.85	17.04	186.37	82.48	186.89	187.03	187.41	323.00
185.86	17.64	186.38	84.16	186.90	189.32	187.42	325.93
185.87	18.26	186.39	85.85	186.91	191.62	187.43	328.87
185.88	18.92	186.40	87.56	186.92	193.94	187.44	331.82
185.89	19.60	186.41	89.27	186.93	196.26	187.45	334.78

Stage-Discharge for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Primary (cfs)
187.46	337.75
187.47	340.73
187.48	343.72
187.49	346.72
187.50	349.74
187.51	352.76
187.52	355.79
187.53	358.84
187.54	361.90
187.55	364.96
187.56	368.04
187.57	371.13
187.58	374.22
187.59	377.33
187.60	380.45
187.61	383.58
187.62	386.72
187.63	389.87
187.64	393.03
187.65	396.20
187.66	399.38
187.67	402.58
187.68	405.78
187.69	408.99
187.70	412.22
187.71	415.45
187.72	418.69
187.73	421.95
187.74	425.21
187.75	428.49
187.76	431.84
187.77	435.20
187.78	438.57
187.79	441.95
187.80	445.35
187.81	448.75
187.82	452.17
187.83	455.60
187.84	459.04
187.85	462.49
187.86	465.95
187.87	469.42
187.88	472.91
187.89	476.40
187.90	479.91
187.91	483.43
187.92	486.96
187.93	490.50
187.94	494.05
187.95	497.61
187.96	501.19
187.97	504.78
187.98	508.37
187.99	511.98
188.00	**515.60**

Stage-Area-Storage for Pond B-46B: Basin #46B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.30	0	0
183.31	158	1
183.32	316	3
183.33	474	7
183.34	632	13
183.35	790	20
183.36	948	28
183.37	1,106	39
183.38	1,264	51
183.39	1,422	64
183.40	1,580	79
183.41	1,738	96
183.42	1,896	114
183.43	2,054	133
183.44	2,212	155
183.45	2,370	178
183.46	2,528	202
183.47	2,686	228
183.48	2,844	256
183.49	3,002	285
183.50	3,160	316
183.51	3,318	348
183.52	3,476	382
183.53	3,634	418
183.54	3,792	455
183.55	3,950	494
183.56	4,108	534
183.57	4,266	576
183.58	4,424	619
183.59	4,582	664
183.60	4,740	711
183.61	4,898	759
183.62	5,056	809
183.63	5,214	860
183.64	5,372	913
183.65	5,530	968
183.66	5,687	1,024
183.67	5,845	1,081
183.68	6,003	1,141
183.69	6,161	1,201
183.70	6,319	1,264
183.71	6,477	1,328
183.72	6,635	1,393
183.73	6,793	1,461
183.74	6,951	1,529
183.75	7,109	1,600
183.76	7,267	1,671
183.77	7,425	1,745
183.78	7,583	1,820
183.79	7,741	1,897
183.80	7,899	1,975
183.81	8,057	2,055
183.82	8,215	2,136
183.83	8,373	2,219
183.84	8,531	2,303
183.85	8,689	2,390
183.86	8,847	2,477
183.87	9,005	2,566
183.88	9,163	2,657
183.89	9,321	2,750
183.90	9,479	2,844
183.91	9,637	2,939
183.92	9,795	3,036
183.93	9,953	3,135
183.94	10,111	3,236
183.95	10,269	3,337
183.96	10,427	3,441
183.97	10,585	3,546
183.98	10,743	3,653
183.99	10,901	3,761
184.00	11,059	3,871
184.01	11,072	3,981
184.02	11,086	4,092
184.03	11,099	4,203
184.04	11,113	4,314
184.05	11,126	4,425
184.06	11,140	4,537
184.07	11,153	4,648
184.08	11,166	4,760
184.09	11,180	4,871
184.10	11,193	4,983
184.11	11,207	5,095
184.12	11,220	5,207
184.13	11,234	5,320
184.14	11,247	5,432
184.15	11,260	5,545
184.16	11,274	5,657
184.17	11,287	5,770
184.18	11,301	5,883
184.19	11,314	5,996
184.20	11,328	6,109
184.21	11,341	6,223
184.22	11,354	6,336
184.23	11,368	6,450
184.24	11,381	6,563
184.25	11,395	6,677
184.26	11,408	6,791
184.27	11,422	6,906
184.28	11,435	7,020
184.29	11,448	7,134
184.30	11,462	7,249
184.31	11,475	7,363
184.32	11,489	7,478
184.33	11,502	7,593

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.34	11,516	7,708	184.86	12,214	13,878
184.35	11,529	7,824	184.87	12,227	14,000
184.36	11,542	7,939	184.88	12,241	14,123
184.37	11,556	8,054	184.89	12,254	14,245
184.38	11,569	8,170	184.90	12,268	14,368
184.39	11,583	8,286	184.91	12,281	14,490
184.40	11,596	8,402	184.92	12,295	14,613
184.41	11,610	8,518	184.93	12,308	14,736
184.42	11,623	8,634	184.94	12,321	14,859
184.43	11,636	8,750	184.95	12,335	14,983
184.44	11,650	8,867	184.96	12,348	15,106
184.45	11,663	8,983	184.97	12,362	15,230
184.46	11,677	9,100	184.98	12,375	15,353
184.47	11,690	9,217	184.99	12,389	15,477
184.48	11,704	9,334	185.00	12,402	15,601
184.49	11,717	9,451	185.01	12,416	15,725
184.50	11,731	9,568	185.02	12,430	15,849
184.51	11,744	9,685	185.03	12,444	15,974
184.52	11,757	9,803	185.04	12,458	16,098
184.53	11,771	9,921	185.05	12,472	16,223
184.54	11,784	10,038	185.06	12,486	16,348
184.55	11,798	10,156	185.07	12,500	16,473
184.56	11,811	10,274	185.08	12,514	16,598
184.57	11,825	10,392	185.09	12,528	16,723
184.58	11,838	10,511	185.10	12,542	16,848
184.59	11,851	10,629	185.11	12,556	16,974
184.60	11,865	10,748	185.12	12,570	17,099
184.61	11,878	10,867	185.13	12,584	17,225
184.62	11,892	10,985	185.14	12,598	17,351
184.63	11,905	11,104	185.15	12,612	17,477
184.64	11,919	11,223	185.16	12,626	17,603
184.65	11,932	11,343	185.17	12,640	17,730
184.66	11,945	11,462	185.18	12,654	17,856
184.67	11,959	11,582	185.19	12,668	17,983
184.68	11,972	11,701	185.20	12,682	18,110
184.69	11,986	11,821	185.21	12,696	18,236
184.70	11,999	11,941	185.22	12,710	18,363
184.71	12,013	12,061	185.23	12,724	18,491
184.72	12,026	12,181	185.24	12,738	18,618
184.73	12,039	12,302	185.25	12,752	18,745
184.74	12,053	12,422	185.26	12,766	18,873
184.75	12,066	12,543	185.27	12,780	19,001
184.76	12,080	12,663	185.28	12,794	19,129
184.77	12,093	12,784	185.29	12,808	19,257
184.78	12,107	12,905	185.30	12,822	19,385
184.79	12,120	13,026	185.31	12,836	19,513
184.80	12,133	13,148	185.32	12,850	19,642
184.81	12,147	13,269	185.33	12,864	19,770
184.82	12,160	13,391	185.34	12,878	19,899
184.83	12,174	13,512	185.35	12,892	20,028
184.84	12,187	13,634	185.36	12,906	20,157
184.85	12,201	13,756	185.37	12,920	20,286

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.38	12,934	20,415	185.90	13,663	27,330
185.39	12,948	20,544	185.91	13,677	27,467
185.40	12,962	20,674	185.92	13,691	27,604
185.41	12,976	20,804	185.93	13,705	27,741
185.42	12,990	20,934	185.94	13,719	27,878
185.43	13,004	21,064	185.95	13,733	28,015
185.44	13,018	21,194	185.96	13,747	28,153
185.45	13,032	21,324	185.97	13,761	28,290
185.46	13,046	21,454	185.98	13,775	28,428
185.47	13,060	21,585	185.99	13,789	28,566
185.48	13,074	21,716	186.00	13,803	28,704
185.49	13,088	21,846	186.01	13,818	28,842
185.50	13,103	21,977	186.02	13,832	28,980
185.51	13,117	22,108	186.03	13,847	29,118
185.52	13,131	22,240	186.04	13,861	29,257
185.53	13,145	22,371	186.05	13,876	29,396
185.54	13,159	22,502	186.06	13,890	29,534
185.55	13,173	22,634	186.07	13,905	29,673
185.56	13,187	22,766	186.08	13,919	29,813
185.57	13,201	22,898	186.09	13,934	29,952
185.58	13,215	23,030	186.10	13,949	30,091
185.59	13,229	23,162	186.11	13,963	30,231
185.60	13,243	23,295	186.12	13,978	30,370
185.61	13,257	23,427	186.13	13,992	30,510
185.62	13,271	23,560	186.14	14,007	30,650
185.63	13,285	23,692	186.15	14,021	30,790
185.64	13,299	23,825	186.16	14,036	30,931
185.65	13,313	23,958	186.17	14,051	31,071
185.66	13,327	24,092	186.18	14,065	31,212
185.67	13,341	24,225	186.19	14,080	31,353
185.68	13,355	24,358	186.20	14,094	31,493
185.69	13,369	24,492	186.21	14,109	31,634
185.70	13,383	24,626	186.22	14,123	31,776
185.71	13,397	24,760	186.23	14,138	31,917
185.72	13,411	24,894	186.24	14,152	32,058
185.73	13,425	25,028	186.25	14,167	32,200
185.74	13,439	25,162	186.26	14,182	32,342
185.75	13,453	25,297	186.27	14,196	32,484
185.76	13,467	25,431	186.28	14,211	32,626
185.77	13,481	25,566	186.29	14,225	32,768
185.78	13,495	25,701	186.30	14,240	32,910
185.79	13,509	25,836	186.31	14,254	33,053
185.80	13,523	25,971	186.32	14,269	33,195
185.81	13,537	26,106	186.33	14,283	33,338
185.82	13,551	26,242	186.34	14,298	33,481
185.83	13,565	26,377	186.35	14,313	33,624
185.84	13,579	26,513	186.36	14,327	33,767
185.85	13,593	26,649	186.37	14,342	33,910
185.86	13,607	26,785	186.38	14,356	34,054
185.87	13,621	26,921	186.39	14,371	34,198
185.88	13,635	27,057	186.40	14,385	34,341
185.89	13,649	27,194	186.41	14,400	34,485

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.42	14,415	34,629
186.43	14,429	34,774
186.44	14,444	34,918
186.45	14,458	35,062
186.46	14,473	35,207
186.47	14,487	35,352
186.48	14,502	35,497
186.49	14,516	35,642
186.50	14,531	35,787
186.51	14,546	35,933
186.52	14,560	36,078
186.53	14,575	36,224
186.54	14,589	36,370
186.55	14,604	36,516
186.56	14,618	36,662
186.57	14,633	36,808
186.58	14,647	36,954
186.59	14,662	37,101
186.60	14,677	37,248
186.61	14,691	37,394
186.62	14,706	37,541
186.63	14,720	37,688
186.64	14,735	37,836
186.65	14,749	37,983
186.66	14,764	38,131
186.67	14,779	38,278
186.68	14,793	38,426
186.69	14,808	38,574
186.70	14,822	38,722
186.71	14,837	38,871
186.72	14,851	39,019
186.73	14,866	39,168
186.74	14,880	39,317
186.75	14,895	39,465
186.76	14,910	39,614
186.77	14,924	39,764
186.78	14,939	39,913
186.79	14,953	40,062
186.80	14,968	40,212
186.81	14,982	40,362
186.82	14,997	40,512
186.83	15,011	40,662
186.84	15,026	40,812
186.85	15,041	40,962
186.86	15,055	41,113
186.87	15,070	41,263
186.88	15,084	41,414
186.89	15,099	41,565
186.90	15,113	41,716
186.91	15,128	41,867
186.92	15,143	42,019
186.93	15,157	42,170
186.94	15,172	42,322
186.95	15,186	42,474
186.96	15,201	42,625
186.97	15,215	42,778
186.98	15,230	42,930
186.99	15,244	43,082
187.00	15,259	43,235
187.01	15,274	43,387
187.02	15,289	43,540
187.03	15,304	43,693
187.04	15,320	43,846
187.05	15,335	43,999
187.06	15,350	44,153
187.07	15,365	44,306
187.08	15,380	44,460
187.09	15,395	44,614
187.10	15,410	44,768
187.11	15,425	44,922
187.12	15,441	45,077
187.13	15,456	45,231
187.14	15,471	45,386
187.15	15,486	45,541
187.16	15,501	45,695
187.17	15,516	45,851
187.18	15,531	46,006
187.19	15,546	46,161
187.20	15,562	46,317
187.21	15,577	46,472
187.22	15,592	46,628
187.23	15,607	46,784
187.24	15,622	46,940
187.25	15,637	47,097
187.26	15,652	47,253
187.27	15,668	47,410
187.28	15,683	47,566
187.29	15,698	47,723
187.30	15,713	47,880
187.31	15,728	48,038
187.32	15,743	48,195
187.33	15,758	48,353
187.34	15,773	48,510
187.35	15,789	48,668
187.36	15,804	48,826
187.37	15,819	48,984
187.38	15,834	49,142
187.39	15,849	49,301
187.40	15,864	49,459
187.41	15,879	49,618
187.42	15,894	49,777
187.43	15,910	49,936
187.44	15,925	50,095
187.45	15,940	50,254

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.46	15,955	50,414
187.47	15,970	50,573
187.48	15,985	50,733
187.49	16,000	50,893
187.50	16,016	51,053
187.51	16,031	51,214
187.52	16,046	51,374
187.53	16,061	51,534
187.54	16,076	51,695
187.55	16,091	51,856
187.56	16,106	52,017
187.57	16,121	52,178
187.58	16,137	52,339
187.59	16,152	52,501
187.60	16,167	52,662
187.61	16,182	52,824
187.62	16,197	52,986
187.63	16,212	53,148
187.64	16,227	53,310
187.65	16,242	53,473
187.66	16,258	53,635
187.67	16,273	53,798
187.68	16,288	53,961
187.69	16,303	54,124
187.70	16,318	54,287
187.71	16,333	54,450
187.72	16,348	54,613
187.73	16,363	54,777
187.74	16,379	54,941
187.75	16,394	55,104
187.76	16,409	55,268
187.77	16,424	55,433
187.78	16,439	55,597
187.79	16,454	55,761
187.80	16,469	55,926
187.81	16,485	56,091
187.82	16,500	56,256
187.83	16,515	56,421
187.84	16,530	56,586
187.85	16,545	56,751
187.86	16,560	56,917
187.87	16,575	57,083
187.88	16,590	57,248
187.89	16,606	57,414
187.90	16,621	57,581
187.91	16,636	57,747
187.92	16,651	57,913
187.93	16,666	58,080
187.94	16,681	58,247
187.95	16,696	58,413
187.96	16,711	58,580
187.97	16,727	58,748
187.98	16,742	58,915
187.99	16,757	59,083
188.00	**16,772**	**59,250**

Summary for Pond B-47: Basin #47

Inflow Area = 2.436 ac, 30.62% Impervious, Inflow Depth = 3.18" for Current 10 yr event
Inflow = 8.03 cfs @ 12.17 hrs, Volume= 0.647 af
Outflow = 0.34 cfs @ 14.90 hrs, Volume= 0.353 af, Atten= 96%, Lag= 163.8 min
Primary = 0.34 cfs @ 14.90 hrs, Volume= 0.353 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 189.58' @ 14.90 hrs Surf.Area= 22,444 sf Storage= 20,197 cf

Plug-Flow detention time= 716.9 min calculated for 0.353 af (55% of inflow)
Center-of-Mass det. time= 595.4 min (1,396.2 - 800.8)

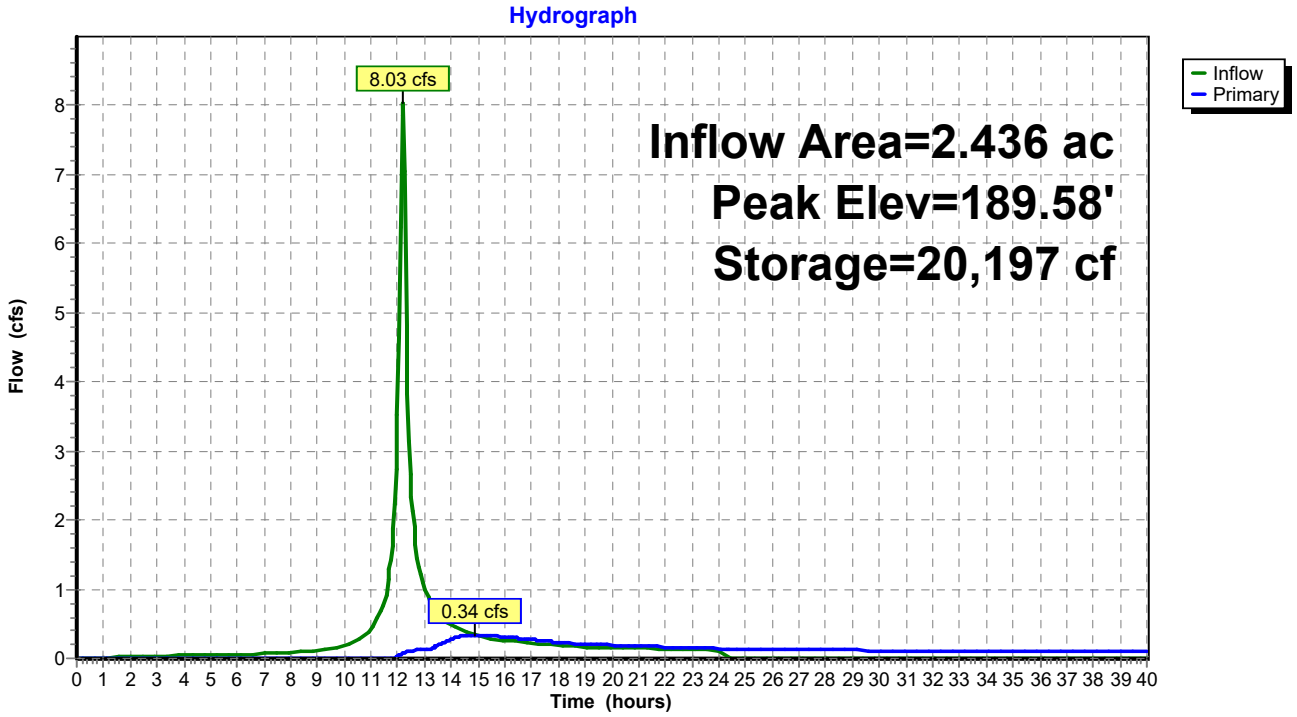
Volume	Invert	Avail.Storage	Storage Description
#1	188.30'	80,305 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
188.30	0	0	0
189.00	21,318	7,461	7,461
190.00	23,252	22,285	29,746
191.00	25,242	24,247	53,993
192.00	27,382	26,312	80,305

Device	Routing	Invert	Outlet Devices
#1	Primary	187.65'	**18.0" Round Culvert** L= 62.0' Ke= 0.500 Inlet / Outlet Invert= 187.65' / 184.00' S= 0.0589 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	188.84'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	189.52'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	190.51'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.33 cfs @ 14.90 hrs HW=189.58' (Free Discharge)
- **1=Culvert** (Passes 0.33 cfs of 9.25 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.13 cfs @ 3.85 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.20 cfs @ 0.81 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-47: Basin #47



Stage-Discharge for Pond B-47: Basin #47

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
188.30	0.00	188.82	0.00	189.34	0.10	189.86	2.71
188.31	0.00	188.83	0.00	189.35	0.10	189.87	2.82
188.32	0.00	188.84	0.00	189.36	0.11	189.88	2.93
188.33	0.00	188.85	0.00	189.37	0.11	189.89	3.05
188.34	0.00	188.86	0.00	189.38	0.11	189.90	3.17
188.35	0.00	188.87	0.00	189.39	0.11	189.91	3.28
188.36	0.00	188.88	0.00	189.40	0.11	189.92	3.40
188.37	0.00	188.89	0.00	189.41	0.11	189.93	3.53
188.38	0.00	188.90	0.01	189.42	0.11	189.94	3.65
188.39	0.00	188.91	0.01	189.43	0.11	189.95	3.77
188.40	0.00	188.92	0.01	189.44	0.12	189.96	3.90
188.41	0.00	188.93	0.01	189.45	0.12	189.97	4.03
188.42	0.00	188.94	0.02	189.46	0.12	189.98	4.15
188.43	0.00	188.95	0.02	189.47	0.12	189.99	4.28
188.44	0.00	188.96	0.02	189.48	0.12	190.00	4.41
188.45	0.00	188.97	0.03	189.49	0.12	190.01	4.55
188.46	0.00	188.98	0.03	189.50	0.12	190.02	4.68
188.47	0.00	188.99	0.03	189.51	0.12	190.03	4.81
188.48	0.00	189.00	0.04	189.52	0.12	190.04	4.95
188.49	0.00	189.01	0.04	189.53	0.14	190.05	5.09
188.50	0.00	189.02	0.05	189.54	0.16	190.06	5.22
188.51	0.00	189.03	0.05	189.55	0.20	190.07	5.36
188.52	0.00	189.04	0.05	189.56	0.23	190.08	5.50
188.53	0.00	189.05	0.05	189.57	0.28	190.09	5.64
188.54	0.00	189.06	0.06	189.58	0.32	190.10	5.79
188.55	0.00	189.07	0.06	189.59	0.37	190.11	5.93
188.56	0.00	189.08	0.06	189.60	0.43	190.12	6.07
188.57	0.00	189.09	0.06	189.61	0.49	190.13	6.22
188.58	0.00	189.10	0.06	189.62	0.55	190.14	6.37
188.59	0.00	189.11	0.07	189.63	0.61	190.15	6.51
188.60	0.00	189.12	0.07	189.64	0.68	190.16	6.66
188.61	0.00	189.13	0.07	189.65	0.75	190.17	6.81
188.62	0.00	189.14	0.07	189.66	0.82	190.18	6.96
188.63	0.00	189.15	0.07	189.67	0.89	190.19	7.12
188.64	0.00	189.16	0.08	189.68	0.97	190.20	7.27
188.65	0.00	189.17	0.08	189.69	1.05	190.21	7.42
188.66	0.00	189.18	0.08	189.70	1.13	190.22	7.58
188.67	0.00	189.19	0.08	189.71	1.22	190.23	7.73
188.68	0.00	189.20	0.08	189.72	1.30	190.24	7.89
188.69	0.00	189.21	0.08	189.73	1.39	190.25	8.05
188.70	0.00	189.22	0.09	189.74	1.48	190.26	8.21
188.71	0.00	189.23	0.09	189.75	1.57	190.27	8.37
188.72	0.00	189.24	0.09	189.76	1.67	190.28	8.53
188.73	0.00	189.25	0.09	189.77	1.76	190.29	8.69
188.74	0.00	189.26	0.09	189.78	1.86	190.30	8.85
188.75	0.00	189.27	0.09	189.79	1.96	190.31	9.01
188.76	0.00	189.28	0.10	189.80	2.06	190.32	9.18
188.77	0.00	189.29	0.10	189.81	2.17	190.33	9.34
188.78	0.00	189.30	0.10	189.82	2.27	190.34	9.51
188.79	0.00	189.31	0.10	189.83	2.38	190.35	9.67
188.80	0.00	189.32	0.10	189.84	2.49	190.36	9.84
188.81	0.00	189.33	0.10	189.85	2.59	190.37	10.01

Stage-Discharge for Pond B-47: Basin #47 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.38	10.18	190.90	44.37	191.42	136.19	191.94	258.14
190.39	10.35	190.91	45.71	191.43	138.28	191.95	260.82
190.40	10.52	190.92	47.10	191.44	140.38	191.96	263.51
190.41	10.69	190.93	48.52	191.45	142.49	191.97	266.20
190.42	10.86	190.94	49.97	191.46	144.62	191.98	268.91
190.43	11.04	190.95	51.44	191.47	146.76	191.99	271.64
190.44	11.21	190.96	52.93	191.48	148.91	192.00	**274.37**
190.45	11.39	190.97	54.46	191.49	151.07		
190.46	11.56	190.98	56.01	191.50	153.25		
190.47	11.74	190.99	57.58	191.51	155.44		
190.48	11.92	191.00	59.18	191.52	157.59		
190.49	12.09	191.01	60.81	191.53	159.74		
190.50	12.27	191.02	62.47	191.54	161.91		
190.51	12.36	191.03	64.15	191.55	164.09		
190.52	12.51	191.04	65.85	191.56	166.28		
190.53	12.75	191.05	67.59	191.57	168.49		
190.54	13.06	191.06	69.35	191.58	170.70		
190.55	13.41	191.07	71.14	191.59	172.92		
190.56	13.82	191.08	72.95	191.60	175.15		
190.57	14.26	191.09	74.79	191.61	177.39		
190.58	14.74	191.10	76.66	191.62	179.65		
190.59	15.25	191.11	78.56	191.63	181.91		
190.60	15.79	191.12	80.21	191.64	184.18		
190.61	16.37	191.13	81.88	191.65	186.47		
190.62	16.97	191.14	83.55	191.66	188.76		
190.63	17.60	191.15	85.25	191.67	191.07		
190.64	18.25	191.16	86.95	191.68	193.38		
190.65	18.93	191.17	88.67	191.69	195.71		
190.66	19.64	191.18	90.41	191.70	198.04		
190.67	20.37	191.19	92.15	191.71	200.38		
190.68	21.12	191.20	93.91	191.72	202.77		
190.69	21.89	191.21	95.68	191.73	205.17		
190.70	22.68	191.22	97.47	191.74	207.58		
190.71	23.50	191.23	99.26	191.75	210.01		
190.72	24.37	191.24	101.07	191.76	212.44		
190.73	25.27	191.25	102.89	191.77	214.88		
190.74	26.20	191.26	104.73	191.78	217.33		
190.75	27.15	191.27	106.57	191.79	219.80		
190.76	28.12	191.28	108.43	191.80	222.27		
190.77	29.13	191.29	110.30	191.81	224.76		
190.78	30.15	191.30	112.18	191.82	227.25		
190.79	31.20	191.31	114.08	191.83	229.76		
190.80	32.28	191.32	116.02	191.84	232.27		
190.81	33.38	191.33	117.98	191.85	234.80		
190.82	34.50	191.34	119.95	191.86	237.34		
190.83	35.65	191.35	121.94	191.87	239.88		
190.84	36.82	191.36	123.93	191.88	242.44		
190.85	38.02	191.37	125.94	191.89	245.01		
190.86	39.24	191.38	127.97	191.90	247.59		
190.87	40.49	191.39	130.00	191.91	250.18		
190.88	41.76	191.40	132.05	191.92	252.82		
190.89	43.05	191.41	134.12	191.93	255.48		

Stage-Area-Storage for Pond B-47: Basin #47

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
188.30	0	0	188.82	15,836	4,117
188.31	305	2	188.83	16,141	4,277
188.32	609	6	188.84	16,445	4,440
188.33	914	14	188.85	16,750	4,606
188.34	1,218	24	188.86	17,054	4,775
188.35	1,523	38	188.87	17,359	4,947
188.36	1,827	55	188.88	17,663	5,122
188.37	2,132	75	188.89	17,968	5,301
188.38	2,436	97	188.90	18,273	5,482
188.39	2,741	123	188.91	18,577	5,666
188.40	3,045	152	188.92	18,882	5,853
188.41	3,350	184	188.93	19,186	6,044
188.42	3,655	219	188.94	19,491	6,237
188.43	3,959	257	188.95	19,795	6,433
188.44	4,264	298	188.96	20,100	6,633
188.45	4,568	343	188.97	20,404	6,835
188.46	4,873	390	188.98	20,709	7,041
188.47	5,177	440	188.99	21,013	7,250
188.48	5,482	493	189.00	21,318	7,461
188.49	5,786	550	189.01	21,337	7,675
188.50	6,091	609	189.02	21,357	7,888
188.51	6,395	672	189.03	21,376	8,102
188.52	6,700	737	189.04	21,395	8,316
188.53	7,004	806	189.05	21,415	8,530
188.54	7,309	877	189.06	21,434	8,744
188.55	7,614	952	189.07	21,453	8,958
188.56	7,918	1,029	189.08	21,473	9,173
188.57	8,223	1,110	189.09	21,492	9,388
188.58	8,527	1,194	189.10	21,511	9,603
188.59	8,832	1,281	189.11	21,531	9,818
188.60	9,136	1,370	189.12	21,550	10,033
188.61	9,441	1,463	189.13	21,569	10,249
188.62	9,745	1,559	189.14	21,589	10,465
188.63	10,050	1,658	189.15	21,608	10,681
188.64	10,354	1,760	189.16	21,627	10,897
188.65	10,659	1,865	189.17	21,647	11,113
188.66	10,964	1,973	189.18	21,666	11,330
188.67	11,268	2,085	189.19	21,685	11,547
188.68	11,573	2,199	189.20	21,705	11,764
188.69	11,877	2,316	189.21	21,724	11,981
188.70	12,182	2,436	189.22	21,743	12,198
188.71	12,486	2,560	189.23	21,763	12,416
188.72	12,791	2,686	189.24	21,782	12,633
188.73	13,095	2,815	189.25	21,802	12,851
188.74	13,400	2,948	189.26	21,821	13,069
188.75	13,704	3,083	189.27	21,840	13,288
188.76	14,009	3,222	189.28	21,860	13,506
188.77	14,314	3,364	189.29	21,879	13,725
188.78	14,618	3,508	189.30	21,898	13,944
188.79	14,923	3,656	189.31	21,918	14,163
188.80	15,227	3,807	189.32	21,937	14,382
188.81	15,532	3,961	189.33	21,956	14,602

Stage-Area-Storage for Pond B-47: Basin #47 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
189.34	21,976	14,821	189.86	22,981	26,510
189.35	21,995	15,041	189.87	23,001	26,740
189.36	22,014	15,261	189.88	23,020	26,970
189.37	22,034	15,481	189.89	23,039	27,200
189.38	22,053	15,702	189.90	23,059	27,431
189.39	22,072	15,922	189.91	23,078	27,661
189.40	22,092	16,143	189.92	23,097	27,892
189.41	22,111	16,364	189.93	23,117	28,123
189.42	22,130	16,585	189.94	23,136	28,355
189.43	22,150	16,807	189.95	23,155	28,586
189.44	22,169	17,028	189.96	23,175	28,818
189.45	22,188	17,250	189.97	23,194	29,050
189.46	22,208	17,472	189.98	23,213	29,282
189.47	22,227	17,694	189.99	23,233	29,514
189.48	22,246	17,917	190.00	23,252	29,746
189.49	22,266	18,139	190.01	23,272	29,979
189.50	22,285	18,362	190.02	23,292	30,212
189.51	22,304	18,585	190.03	23,312	30,445
189.52	22,324	18,808	190.04	23,332	30,678
189.53	22,343	19,031	190.05	23,352	30,911
189.54	22,362	19,255	190.06	23,371	31,145
189.55	22,382	19,479	190.07	23,391	31,379
189.56	22,401	19,703	190.08	23,411	31,613
189.57	22,420	19,927	190.09	23,431	31,847
189.58	22,440	20,151	190.10	23,451	32,081
189.59	22,459	20,376	190.11	23,471	32,316
189.60	22,478	20,600	190.12	23,491	32,551
189.61	22,498	20,825	190.13	23,511	32,786
189.62	22,517	21,050	190.14	23,531	33,021
189.63	22,536	21,275	190.15	23,551	33,256
189.64	22,556	21,501	190.16	23,570	33,492
189.65	22,575	21,727	190.17	23,590	33,728
189.66	22,594	21,952	190.18	23,610	33,964
189.67	22,614	22,178	190.19	23,630	34,200
189.68	22,633	22,405	190.20	23,650	34,437
189.69	22,652	22,631	190.21	23,670	34,673
189.70	22,672	22,858	190.22	23,690	34,910
189.71	22,691	23,085	190.23	23,710	35,147
189.72	22,710	23,312	190.24	23,730	35,384
189.73	22,730	23,539	190.25	23,750	35,621
189.74	22,749	23,766	190.26	23,769	35,859
189.75	22,769	23,994	190.27	23,789	36,097
189.76	22,788	24,222	190.28	23,809	36,335
189.77	22,807	24,449	190.29	23,829	36,573
189.78	22,827	24,678	190.30	23,849	36,811
189.79	22,846	24,906	190.31	23,869	37,050
189.80	22,865	25,135	190.32	23,889	37,289
189.81	22,885	25,363	190.33	23,909	37,528
189.82	22,904	25,592	190.34	23,929	37,767
189.83	22,923	25,821	190.35	23,949	38,006
189.84	22,943	26,051	190.36	23,968	38,246
189.85	22,962	26,280	190.37	23,988	38,486

Stage-Area-Storage for Pond B-47: Basin #47 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.38	24,008	38,726	190.90	25,043	51,479
190.39	24,028	38,966	190.91	25,063	51,730
190.40	24,048	39,206	190.92	25,083	51,980
190.41	24,068	39,447	190.93	25,103	52,231
190.42	24,088	39,688	190.94	25,123	52,482
190.43	24,108	39,929	190.95	25,143	52,734
190.44	24,128	40,170	190.96	25,162	52,985
190.45	24,148	40,411	190.97	25,182	53,237
190.46	24,167	40,653	190.98	25,202	53,489
190.47	24,187	40,895	190.99	25,222	53,741
190.48	24,207	41,137	191.00	25,242	53,993
190.49	24,227	41,379	191.01	25,263	54,246
190.50	24,247	41,621	191.02	25,285	54,499
190.51	24,267	41,864	191.03	25,306	54,752
190.52	24,287	42,106	191.04	25,328	55,005
190.53	24,307	42,349	191.05	25,349	55,258
190.54	24,327	42,593	191.06	25,370	55,512
190.55	24,347	42,836	191.07	25,392	55,765
190.56	24,366	43,079	191.08	25,413	56,020
190.57	24,386	43,323	191.09	25,435	56,274
190.58	24,406	43,567	191.10	25,456	56,528
190.59	24,426	43,811	191.11	25,477	56,783
190.60	24,446	44,056	191.12	25,499	57,038
190.61	24,466	44,300	191.13	25,520	57,293
190.62	24,486	44,545	191.14	25,542	57,548
190.63	24,506	44,790	191.15	25,563	57,804
190.64	24,526	45,035	191.16	25,584	58,059
190.65	24,546	45,280	191.17	25,606	58,315
190.66	24,565	45,526	191.18	25,627	58,572
190.67	24,585	45,772	191.19	25,649	58,828
190.68	24,605	46,018	191.20	25,670	59,085
190.69	24,625	46,264	191.21	25,691	59,341
190.70	24,645	46,510	191.22	25,713	59,598
190.71	24,665	46,757	191.23	25,734	59,856
190.72	24,685	47,004	191.24	25,756	60,113
190.73	24,705	47,250	191.25	25,777	60,371
190.74	24,725	47,498	191.26	25,798	60,629
190.75	24,745	47,745	191.27	25,820	60,887
190.76	24,764	47,993	191.28	25,841	61,145
190.77	24,784	48,240	191.29	25,863	61,403
190.78	24,804	48,488	191.30	25,884	61,662
190.79	24,824	48,736	191.31	25,905	61,921
190.80	24,844	48,985	191.32	25,927	62,180
190.81	24,864	49,233	191.33	25,948	62,440
190.82	24,884	49,482	191.34	25,970	62,699
190.83	24,904	49,731	191.35	25,991	62,959
190.84	24,924	49,980	191.36	26,012	63,219
190.85	24,944	50,229	191.37	26,034	63,479
190.86	24,963	50,479	191.38	26,055	63,740
190.87	24,983	50,729	191.39	26,077	64,000
190.88	25,003	50,979	191.40	26,098	64,261
190.89	25,023	51,229	191.41	26,119	64,522

Stage-Area-Storage for Pond B-47: Basin #47 (continued)

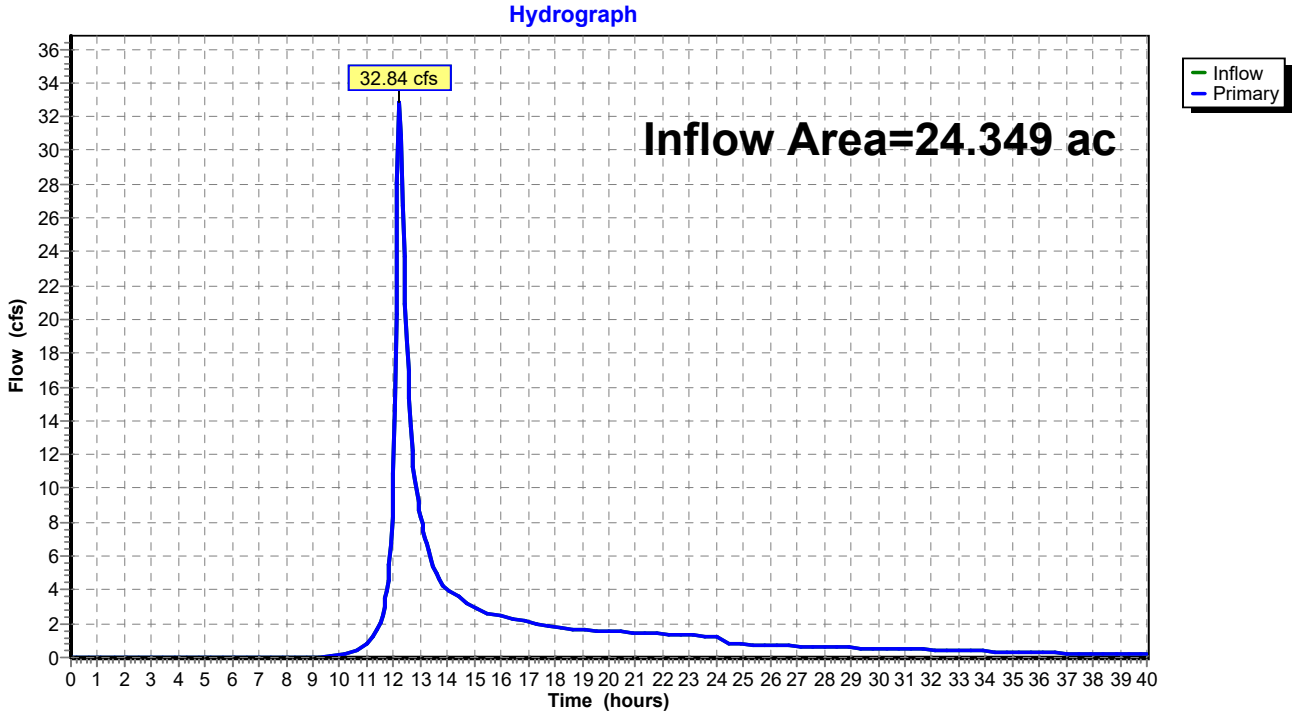
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.42	26,141	64,784
191.43	26,162	65,045
191.44	26,184	65,307
191.45	26,205	65,569
191.46	26,226	65,831
191.47	26,248	66,093
191.48	26,269	66,356
191.49	26,291	66,619
191.50	26,312	66,882
191.51	26,333	67,145
191.52	26,355	67,408
191.53	26,376	67,672
191.54	26,398	67,936
191.55	26,419	68,200
191.56	26,440	68,464
191.57	26,462	68,729
191.58	26,483	68,994
191.59	26,505	69,259
191.60	26,526	69,524
191.61	26,547	69,789
191.62	26,569	70,055
191.63	26,590	70,320
191.64	26,612	70,586
191.65	26,633	70,853
191.66	26,654	71,119
191.67	26,676	71,386
191.68	26,697	71,653
191.69	26,719	71,920
191.70	26,740	72,187
191.71	26,761	72,455
191.72	26,783	72,722
191.73	26,804	72,990
191.74	26,826	73,258
191.75	26,847	73,527
191.76	26,868	73,795
191.77	26,890	74,064
191.78	26,911	74,333
191.79	26,933	74,602
191.80	26,954	74,872
191.81	26,975	75,141
191.82	26,997	75,411
191.83	27,018	75,681
191.84	27,040	75,952
191.85	27,061	76,222
191.86	27,082	76,493
191.87	27,104	76,764
191.88	27,125	77,035
191.89	27,147	77,306
191.90	27,168	77,578
191.91	27,189	77,850
191.92	27,211	78,122
191.93	27,232	78,394
191.94	27,254	78,666
191.95	27,275	78,939
191.96	27,296	79,212
191.97	27,318	79,485
191.98	27,339	79,758
191.99	27,361	80,032
192.00	**27,382**	**80,305**

Summary for Link PDA-4: Proposed Drainage Area #4

Inflow Area = 24.349 ac, 23.20% Impervious, Inflow Depth > 2.20" for Current 10 yr event
Inflow = 32.84 cfs @ 12.22 hrs, Volume= 4.472 af
Primary = 32.84 cfs @ 12.22 hrs, Volume= 4.472 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-4: Proposed Drainage Area #4



Summary for Subcatchment 41I: PDA-41 (impervious)

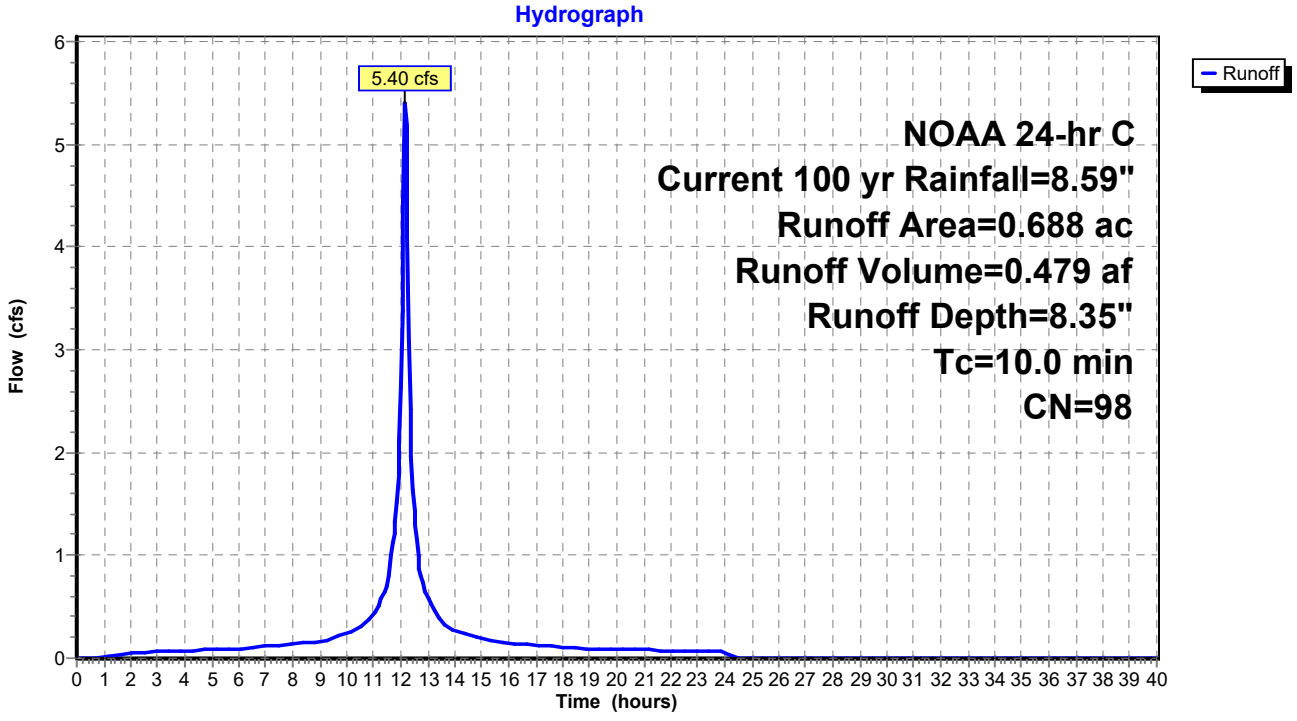
Runoff = 5.40 cfs @ 12.17 hrs, Volume= 0.479 af, Depth= 8.35"
Routed to Pond B-41 : Basin #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

	Area (ac)	CN	Description
*	0.136	98	Pavement, HSG C
*	0.514	98	Roof, HSG C
*	0.038	98	Concrete, HSC C
	0.688	98	Weighted Average
	0.688		100.00% Impervious Area

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

Subcatchment 41I: PDA-41 (impervious)



Summary for Subcatchment 41P: PDA-41 (pervious)

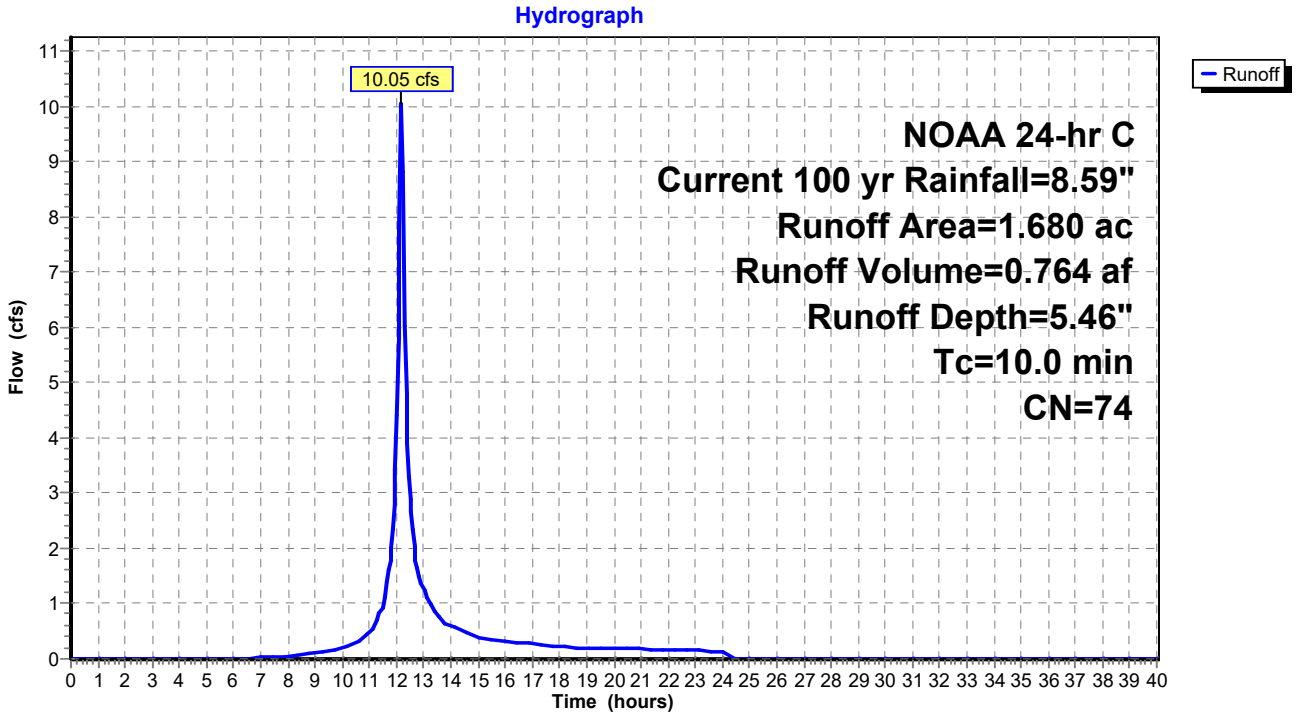
Runoff = 10.05 cfs @ 12.17 hrs, Volume= 0.764 af, Depth= 5.46"
Routed to Pond B-41 : Basin #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.680	74	>75% Grass cover, Good, HSG C
1.680		100.00% Pervious Area

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

Subcatchment 41P: PDA-41 (pervious)



Summary for Subcatchment 42I: PDA-42 (impervious)

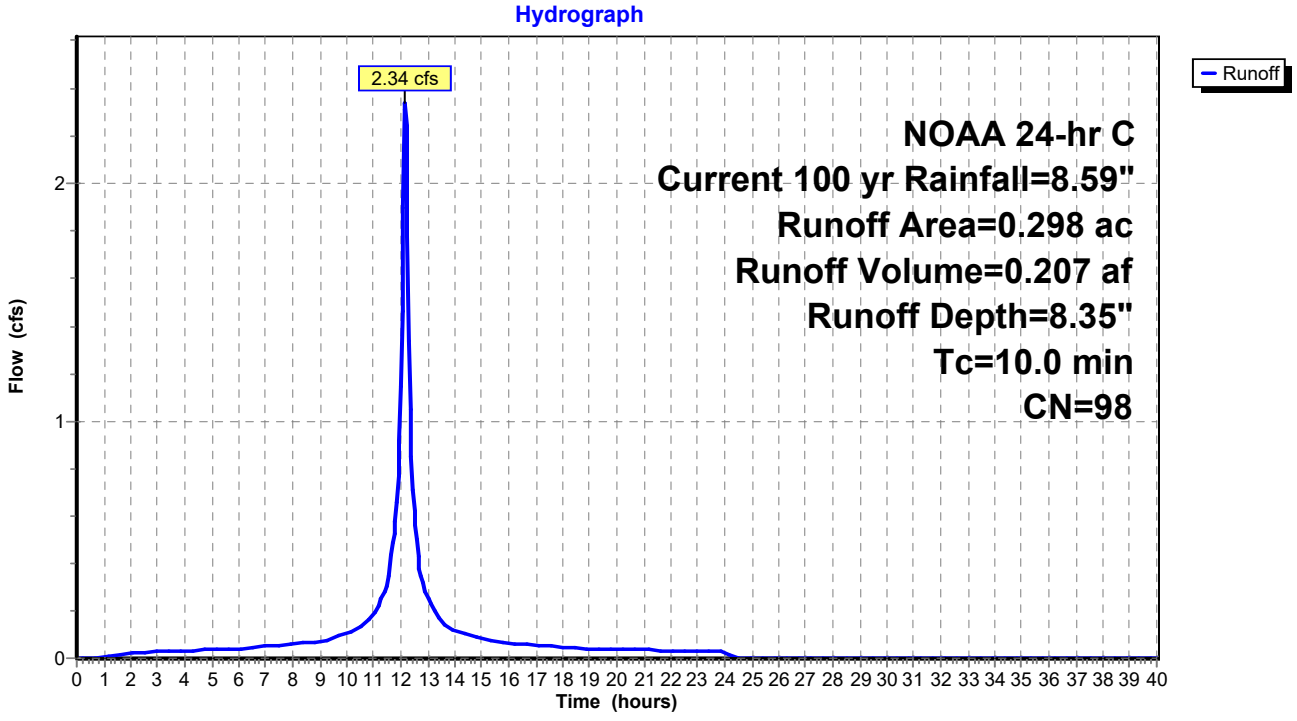
Runoff = 2.34 cfs @ 12.17 hrs, Volume= 0.207 af, Depth= 8.35"
Routed to Pond B-42 : Basin #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

	Area (ac)	CN	Description
*	0.000	98	Pavement, HSG C
*	0.298	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.298	98	Weighted Average
	0.298		100.00% Impervious Area

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

Subcatchment 42I: PDA-42 (impervious)



Summary for Subcatchment 42P: PDA-42 (pervious)

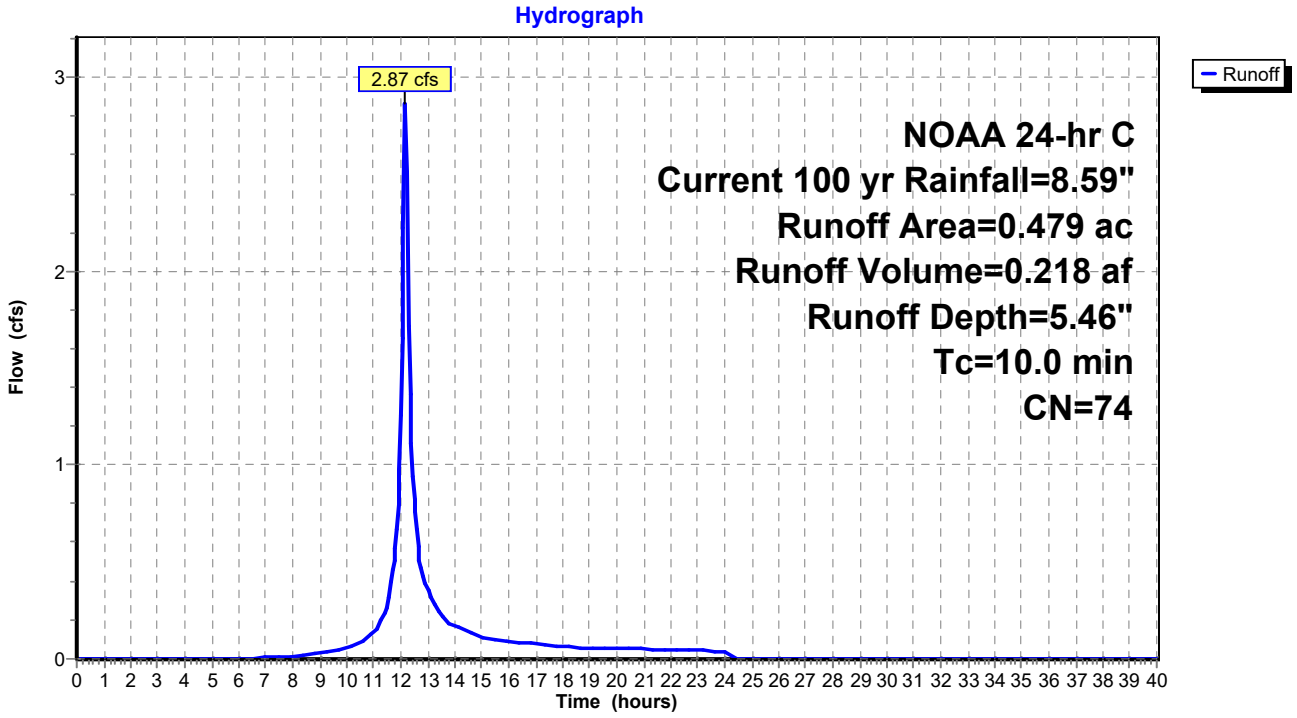
Runoff = 2.87 cfs @ 12.17 hrs, Volume= 0.218 af, Depth= 5.46"
Routed to Pond B-42 : Basin #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.479	74	>75% Grass cover, Good, HSG C
0.479		100.00% Pervious Area

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

Subcatchment 42P: PDA-42 (pervious)



Summary for Subcatchment 43I: PDA-43 (impervious)

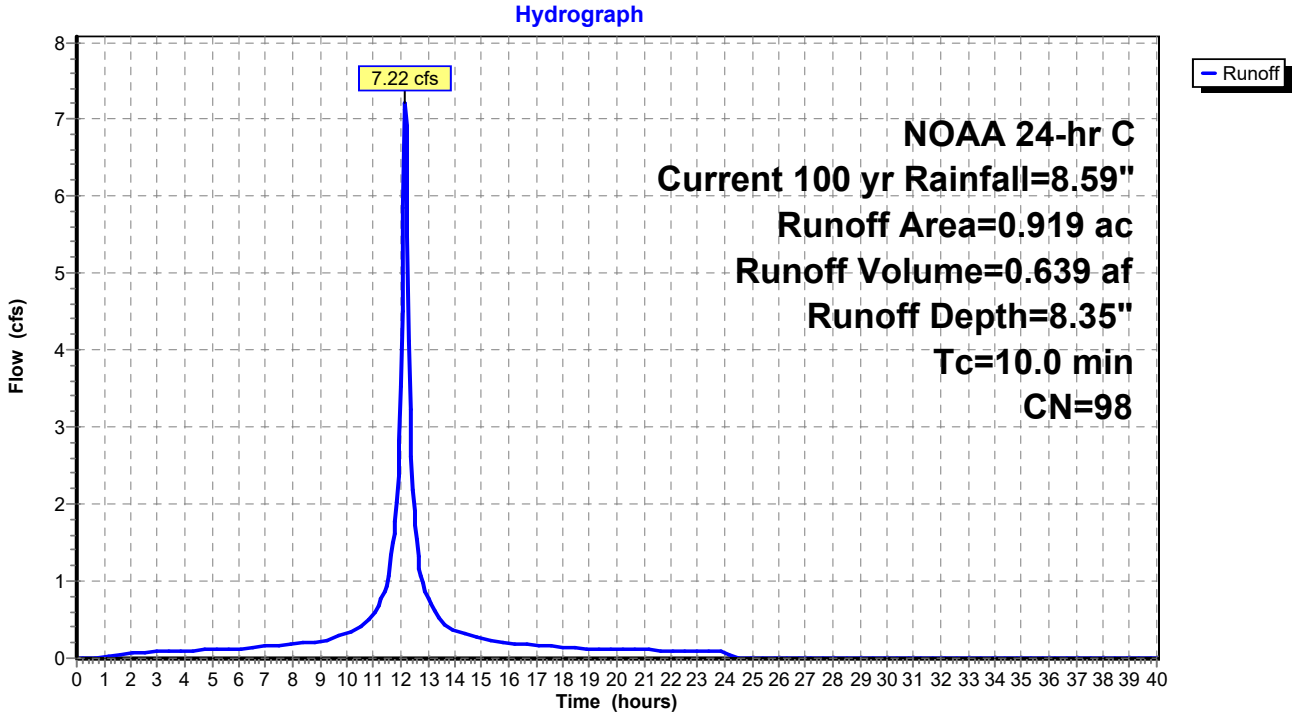
Runoff = 7.22 cfs @ 12.17 hrs, Volume= 0.639 af, Depth= 8.35"
Routed to Pond B-43 : Basin #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

	Area (ac)	CN	Description
*	0.326	98	Pavement, HSG C
*	0.522	98	Roof, HSG C
*	0.071	98	Concrete, HSC C
	0.919	98	Weighted Average
	0.919		100.00% Impervious Area

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

Subcatchment 43I: PDA-43 (impervious)



Summary for Subcatchment 43P: PDA-43 (pervious)

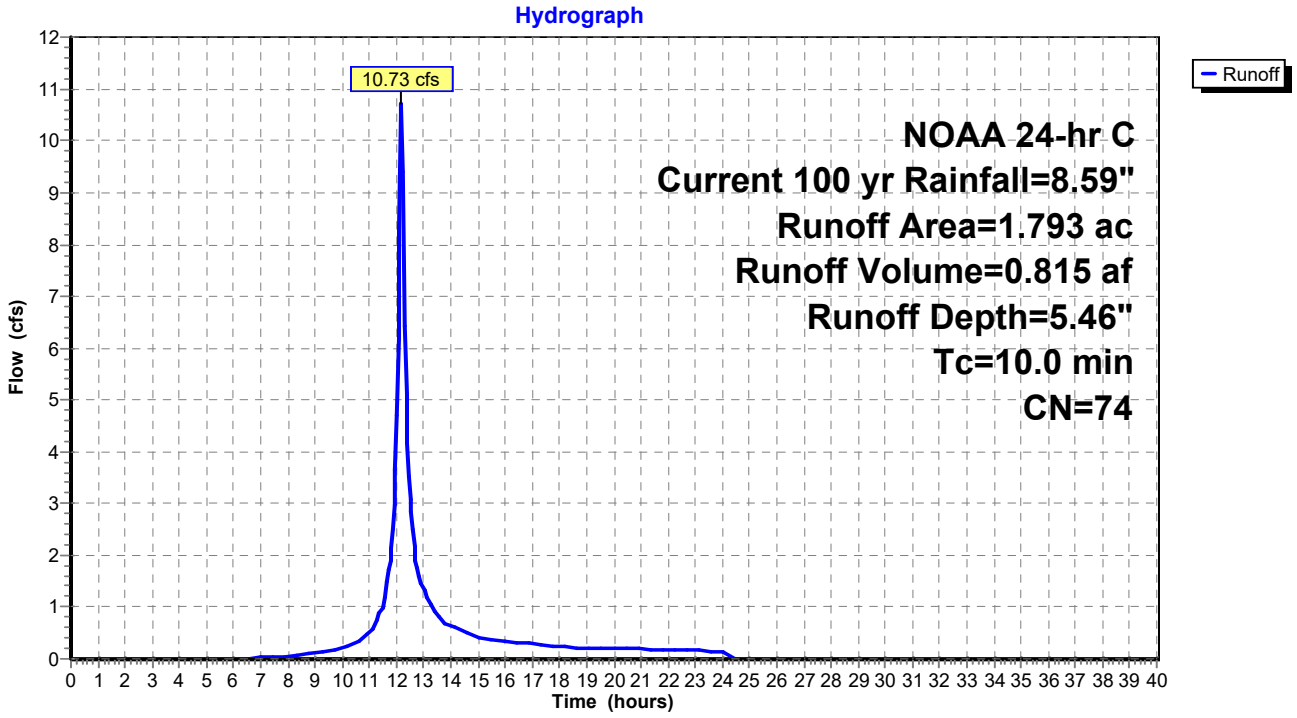
Runoff = 10.73 cfs @ 12.17 hrs, Volume= 0.815 af, Depth= 5.46"
Routed to Pond B-43 : Basin #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.793	74	>75% Grass cover, Good, HSG C
1.793		100.00% Pervious Area

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

Subcatchment 43P: PDA-43 (pervious)



Summary for Subcatchment 44I: PDA-44 (impervious)

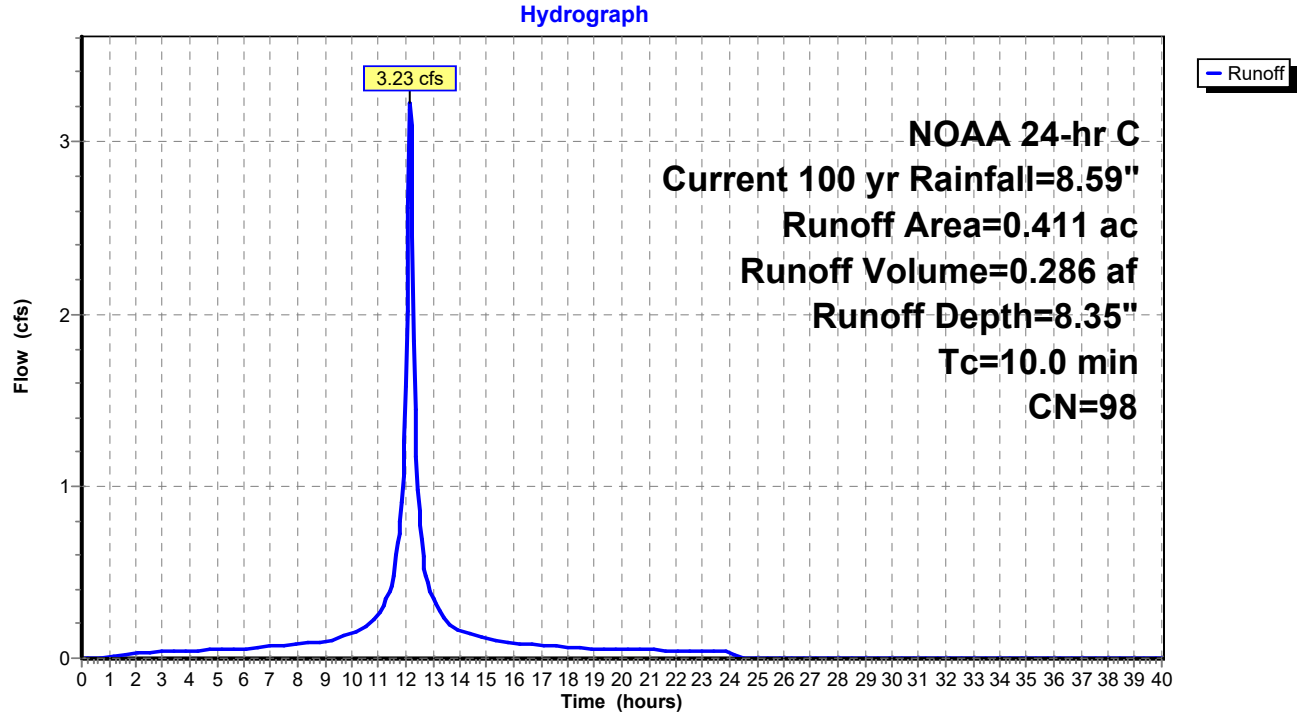
Runoff = 3.23 cfs @ 12.17 hrs, Volume= 0.286 af, Depth= 8.35"
Routed to Pond B-44 : Basin #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

	Area (ac)	CN	Description
*	0.283	98	Pavement, HSG C
*	0.104	98	Roof, HSG C
*	0.024	98	Concrete, HSC C
	0.411	98	Weighted Average
	0.411		100.00% Impervious Area

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

Subcatchment 44I: PDA-44 (impervious)



Summary for Subcatchment 44P: PDA-44 (pervious)

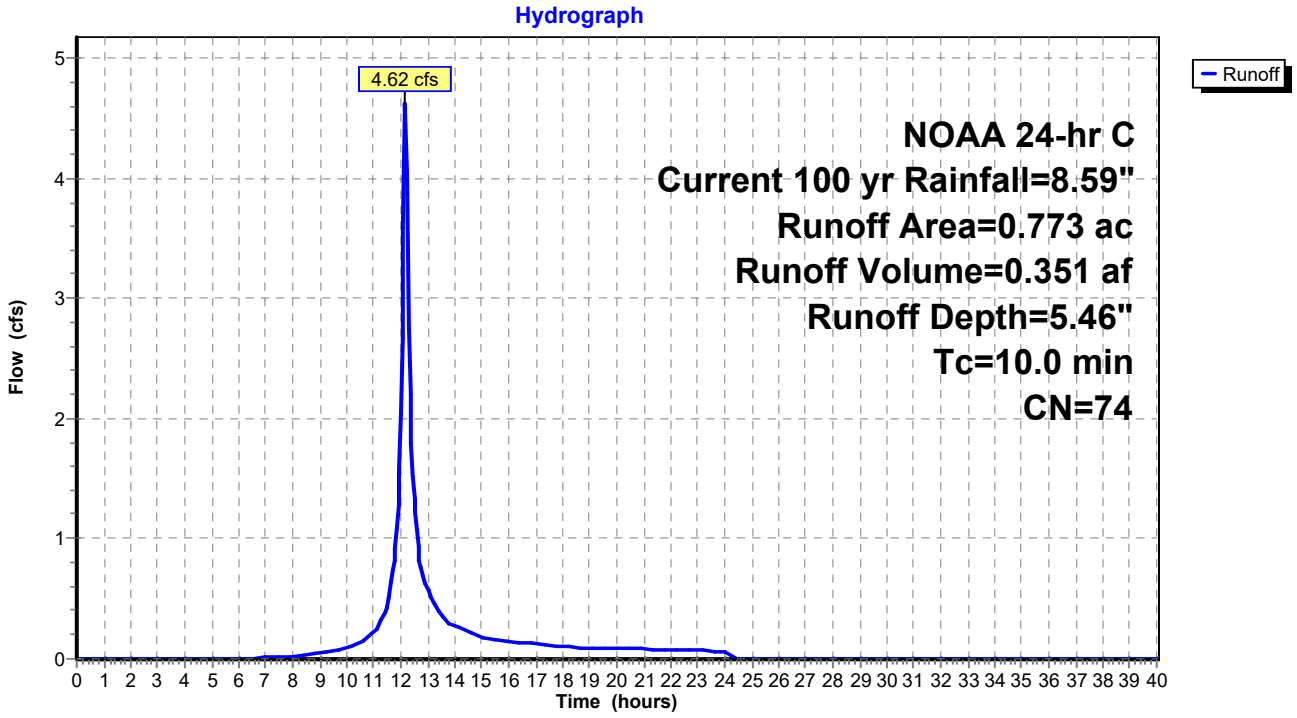
Runoff = 4.62 cfs @ 12.17 hrs, Volume= 0.351 af, Depth= 5.46"
Routed to Pond B-44 : Basin #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.773	74	>75% Grass cover, Good, HSG C
0.773		100.00% Pervious Area

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

Subcatchment 44P: PDA-44 (pervious)



Summary for Subcatchment 45l: PDA-45 (impervious)

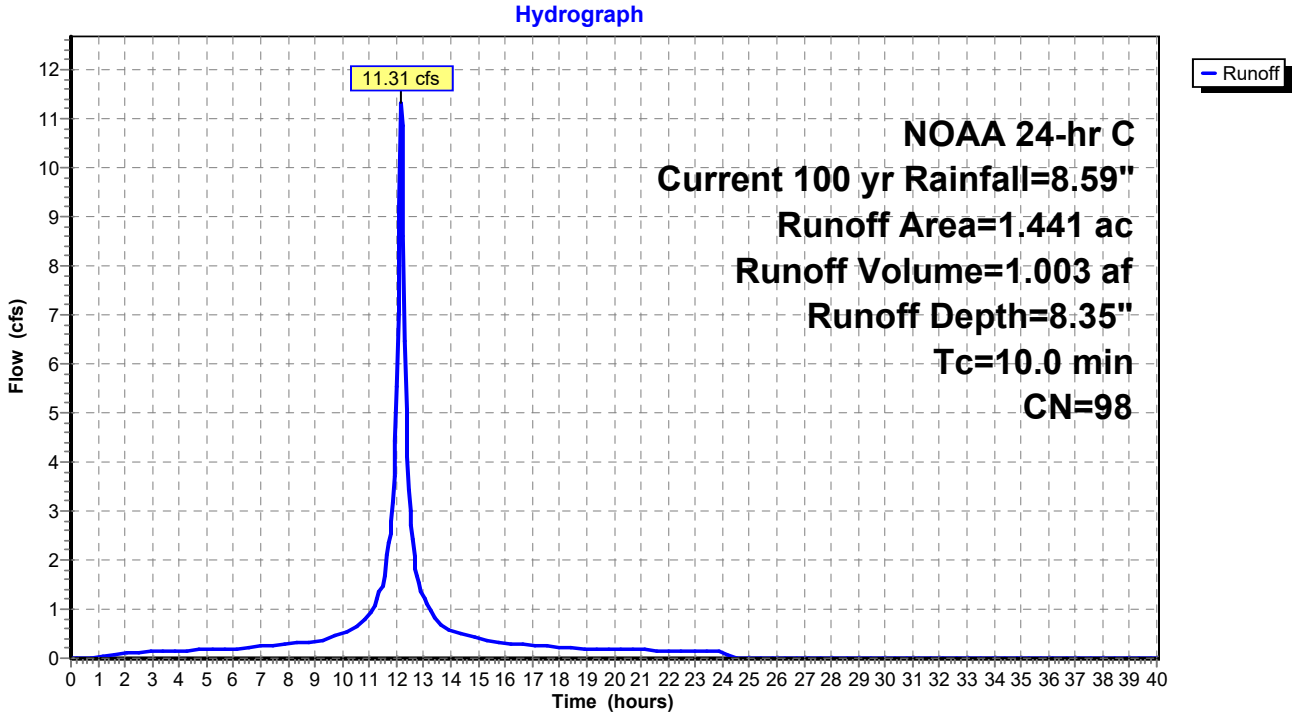
Runoff = 11.31 cfs @ 12.17 hrs, Volume= 1.003 af, Depth= 8.35"
Routed to Pond B-45 : Basin #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

	Area (ac)	CN	Description
*	0.394	98	Pavement, HSG C
*	1.045	98	Roof, HSG C
*	0.002	98	Concrete, HSG C
	1.441	98	Weighted Average
	1.441		100.00% Impervious Area

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

Subcatchment 45l: PDA-45 (impervious)



Summary for Subcatchment 45P: PDA-45 (pervious)

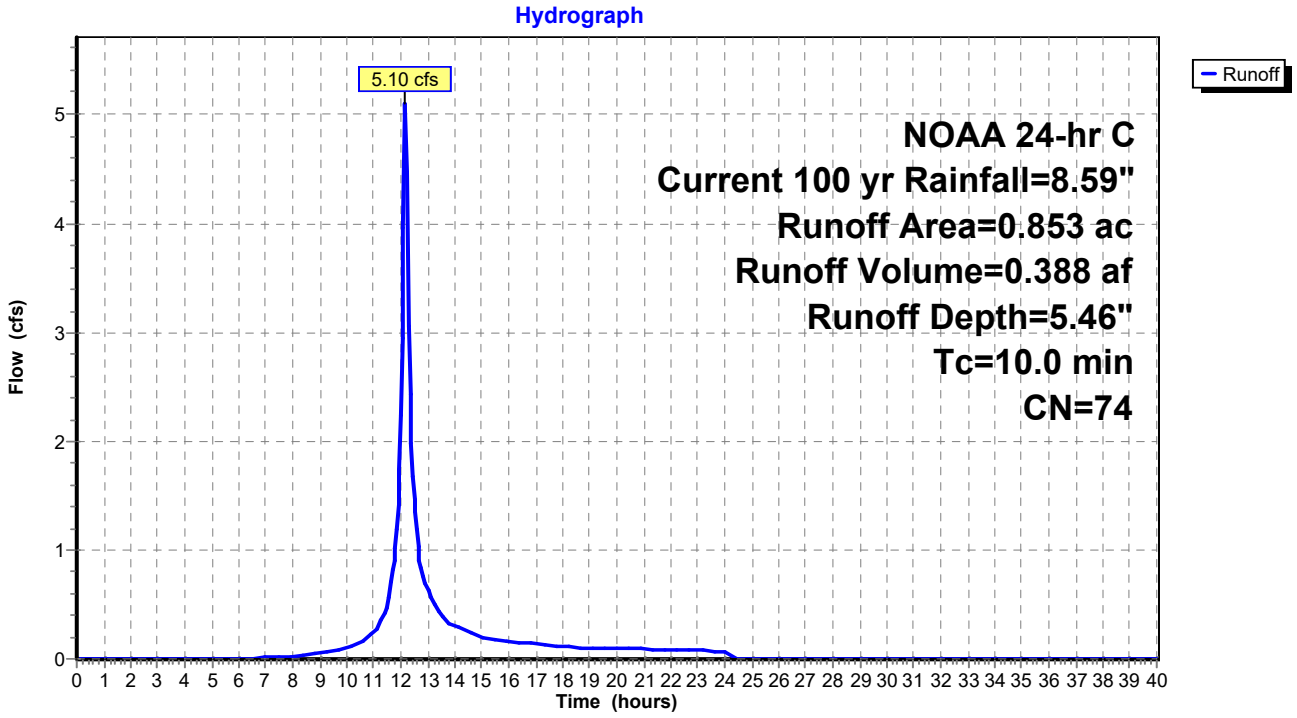
Runoff = 5.10 cfs @ 12.17 hrs, Volume= 0.388 af, Depth= 5.46"
Routed to Pond B-45 : Basin #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.853	74	>75% Grass cover, Good, HSG C
0.853		100.00% Pervious Area

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

Subcatchment 45P: PDA-45 (pervious)



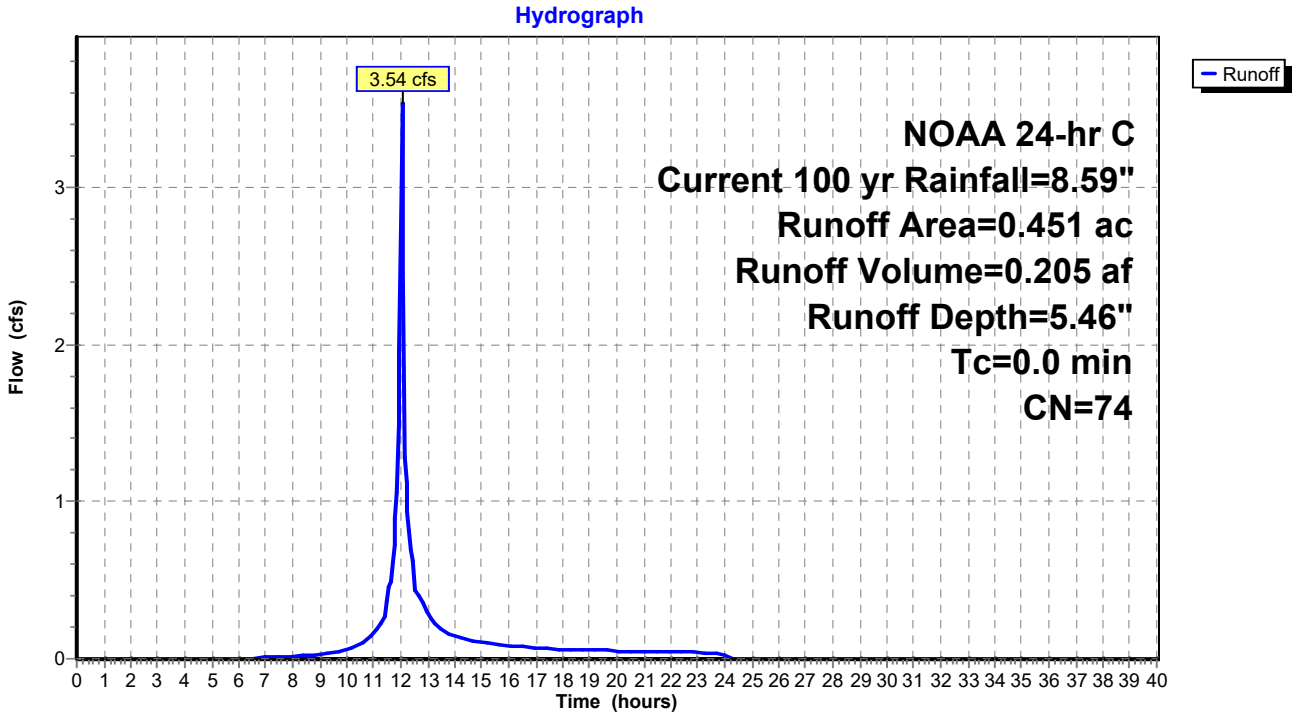
Summary for Subcatchment 46BP: PDA-46B (pervious)

Runoff = 3.54 cfs @ 12.05 hrs, Volume= 0.205 af, Depth= 5.46"
Routed to Pond B-46B : Basin #46B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.451	74	>75% Grass cover, Good, HSG C
0.451		100.00% Pervious Area

Subcatchment 46BP: PDA-46B (pervious)



Summary for Subcatchment 46I: PDA-46 (impervious)

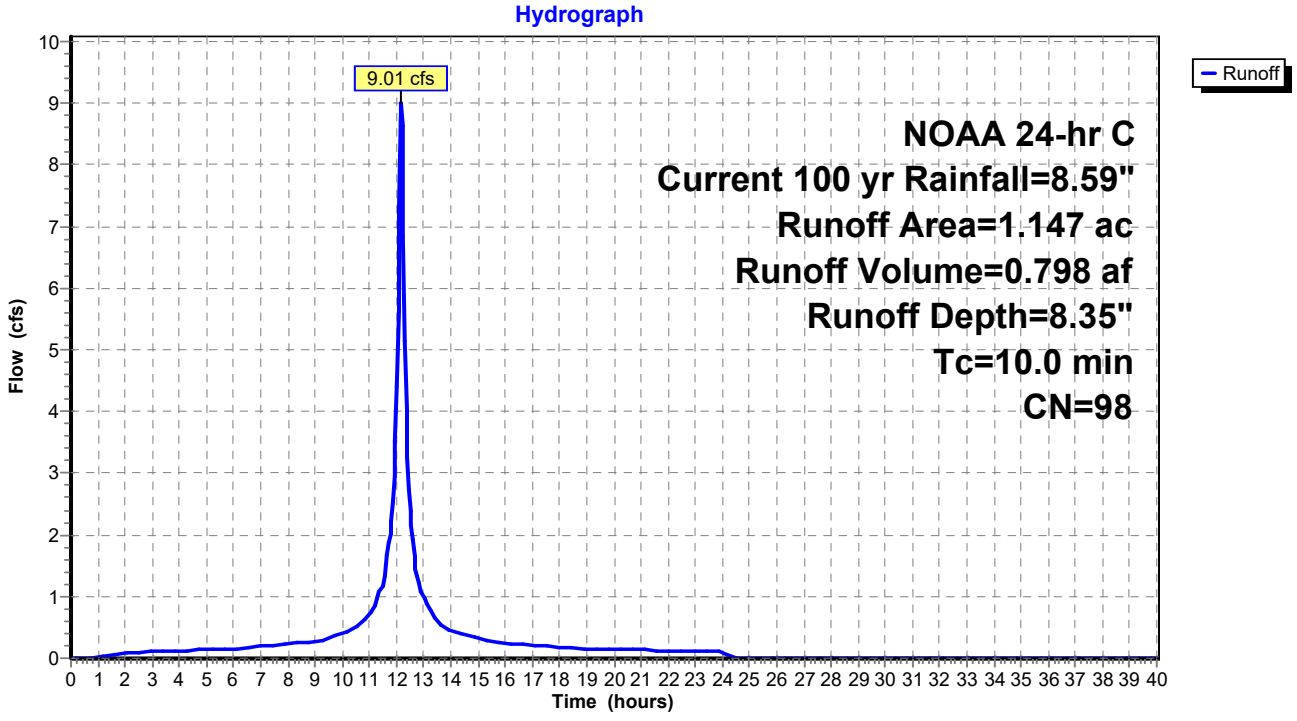
Runoff = 9.01 cfs @ 12.17 hrs, Volume= 0.798 af, Depth= 8.35"
Routed to Pond B-46A : Basin #46A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

	Area (ac)	CN	Description
*	0.430	98	Pavement, HSG C
*	0.653	98	Roof, HSG C
*	0.064	98	Concrete, HSG C
	1.147	98	Weighted Average
	1.147		100.00% Impervious Area

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

Subcatchment 46I: PDA-46 (impervious)



Summary for Subcatchment 46P: PDA-46 (pervious)

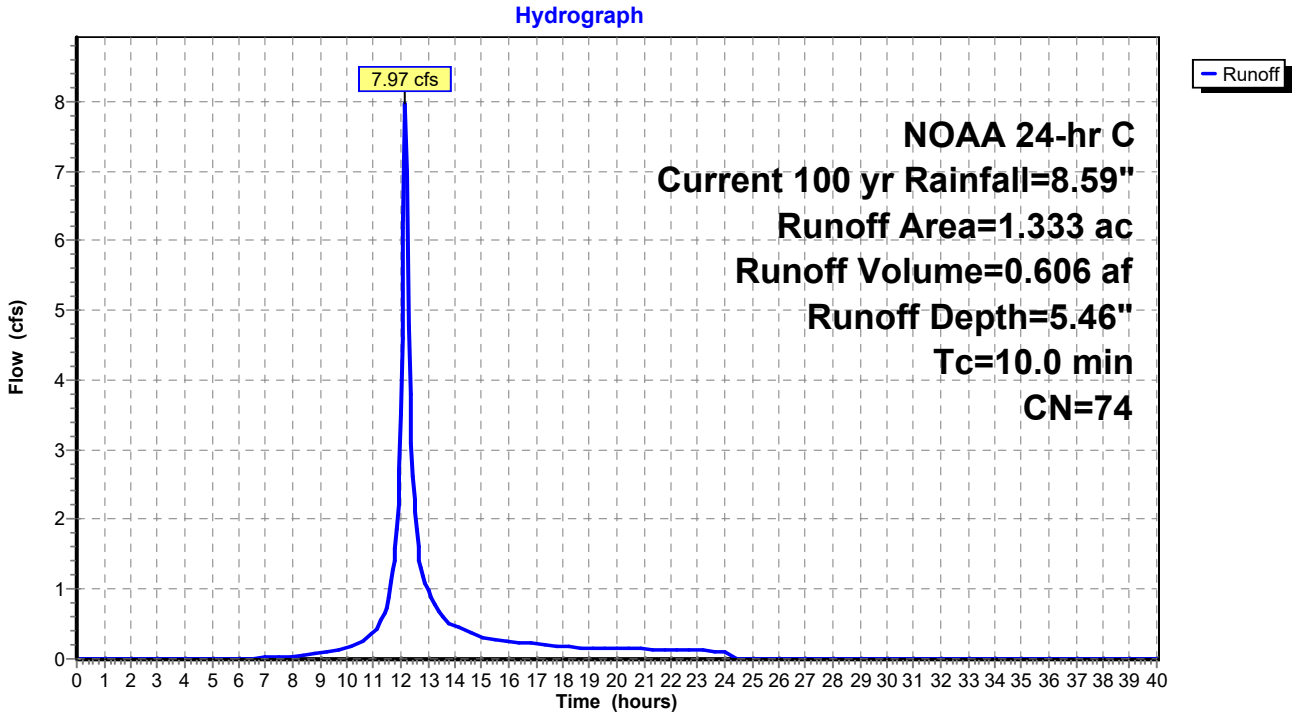
Runoff = 7.97 cfs @ 12.17 hrs, Volume= 0.606 af, Depth= 5.46"
Routed to Pond B-46A : Basin #46A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.333	74	>75% Grass cover, Good, HSG C
1.333		100.00% Pervious Area

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

Subcatchment 46P: PDA-46 (pervious)



Summary for Subcatchment 47I: PDA-47 (impervious)

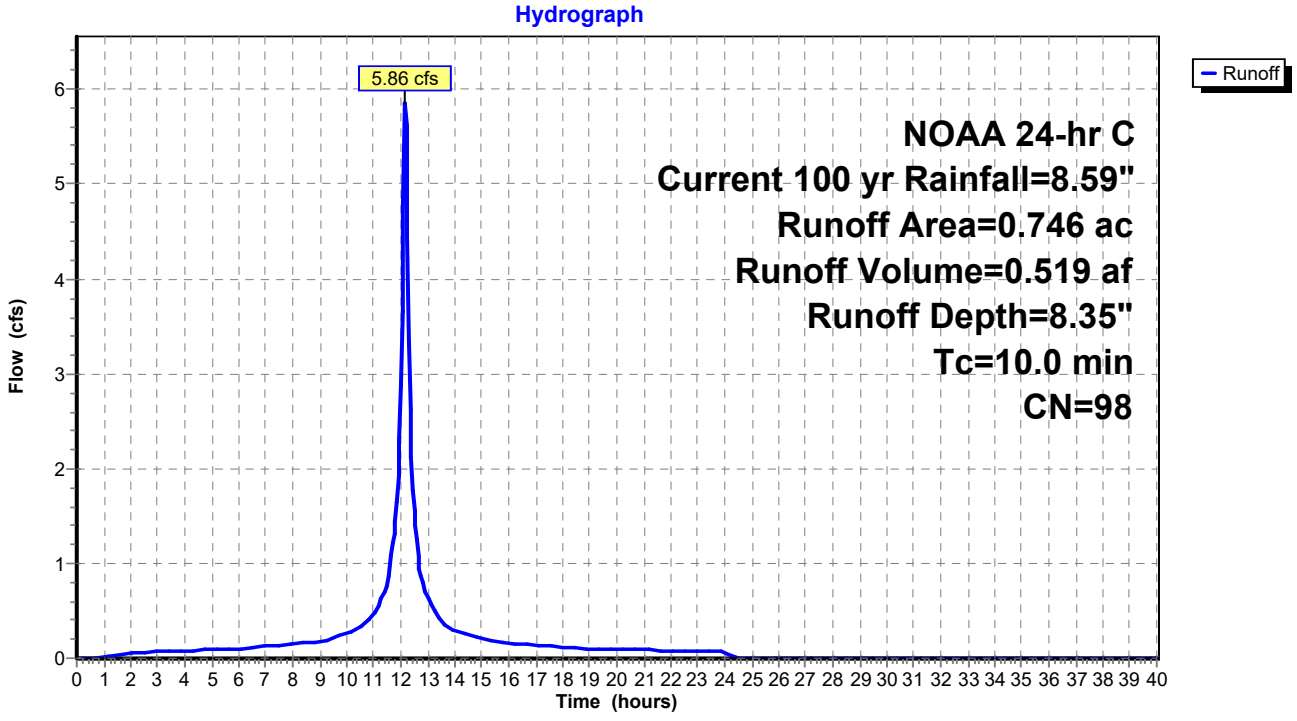
Runoff = 5.86 cfs @ 12.17 hrs, Volume= 0.519 af, Depth= 8.35"
Routed to Pond B-47 : Basin #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

	Area (ac)	CN	Description
*	0.244	98	Pavement, HSG C
*	0.484	98	Roof, HSG C
*	0.018	98	Concrete, HSG C
	0.746	98	Weighted Average
	0.746		100.00% Impervious Area

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

Subcatchment 47I: PDA-47 (impervious)



Summary for Subcatchment 47P: PDA-47 (pervious)

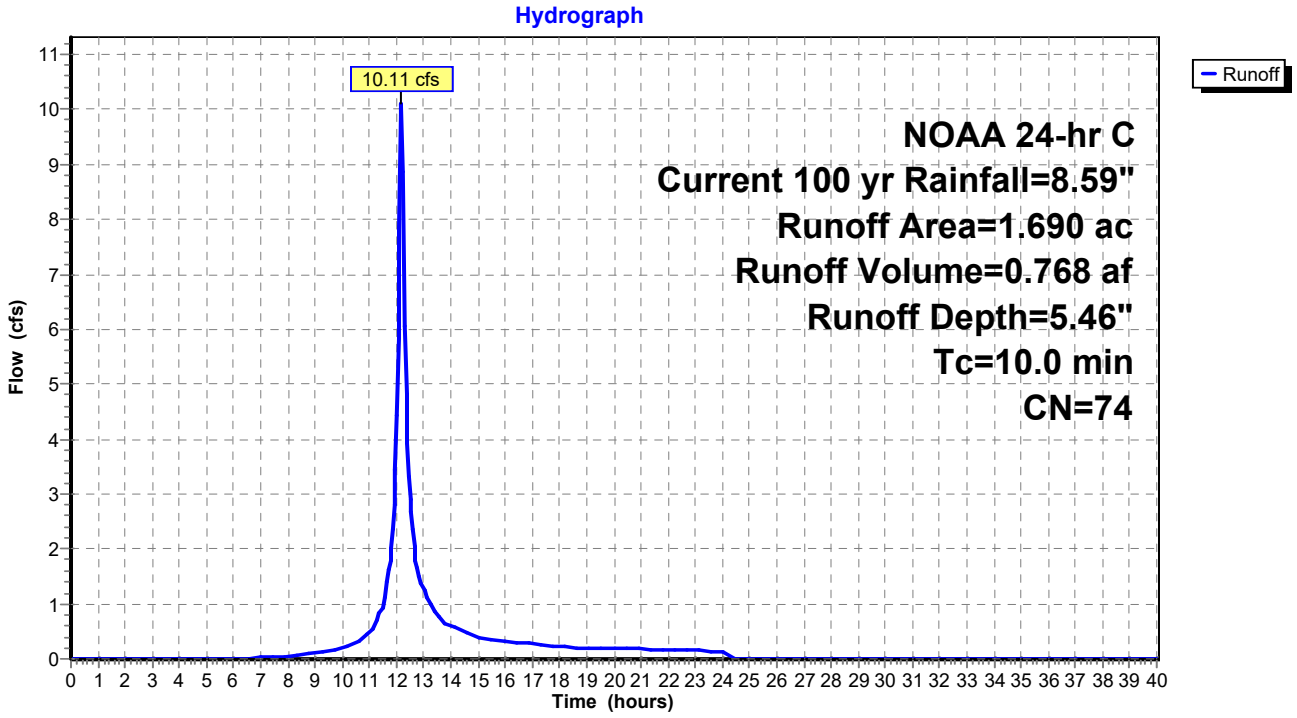
Runoff = 10.11 cfs @ 12.17 hrs, Volume= 0.768 af, Depth= 5.46"
Routed to Pond B-47 : Basin #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.690	74	>75% Grass cover, Good, HSG C
1.690		100.00% Pervious Area

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

Subcatchment 47P: PDA-47 (pervious)



Summary for Subcatchment UPDA-4: PDA-4 (undetained)

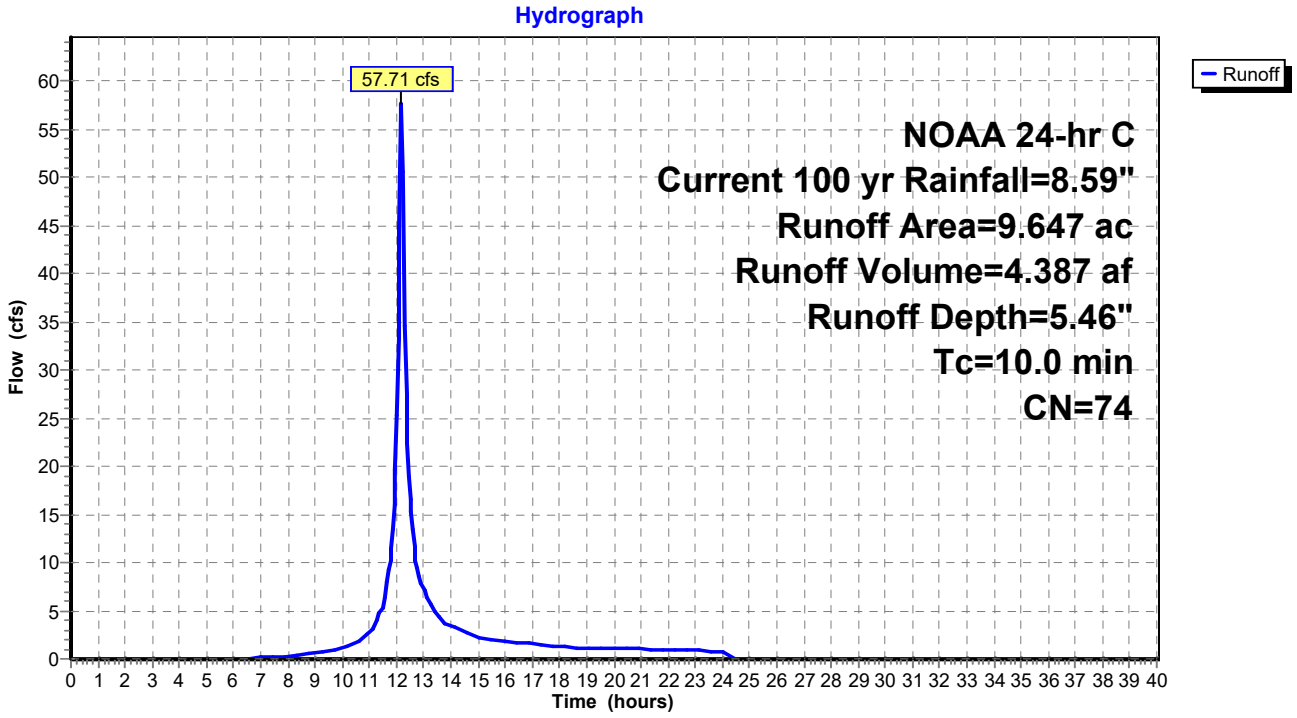
Runoff = 57.71 cfs @ 12.17 hrs, Volume= 4.387 af, Depth= 5.46"
Routed to Link PDA-4 : Proposed Drainage Area #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
9.647	74	>75% Grass cover, Good, HSG C
9.647		100.00% Pervious Area

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

Subcatchment UPDA-4: PDA-4 (undetained)



Summary for Pond B-41: Basin #41

Inflow Area = 2.368 ac, 29.05% Impervious, Inflow Depth = 6.30" for Current 100 yr event
Inflow = 15.45 cfs @ 12.17 hrs, Volume= 1.243 af
Outflow = 12.71 cfs @ 12.24 hrs, Volume= 1.180 af, Atten= 18%, Lag= 4.2 min
Primary = 12.71 cfs @ 12.24 hrs, Volume= 1.180 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 185.14' @ 12.24 hrs Surf.Area= 5,598 sf Storage= 14,807 cf

Plug-Flow detention time= 211.1 min calculated for 1.180 af (95% of inflow)
Center-of-Mass det. time= 182.0 min (973.0 - 791.1)

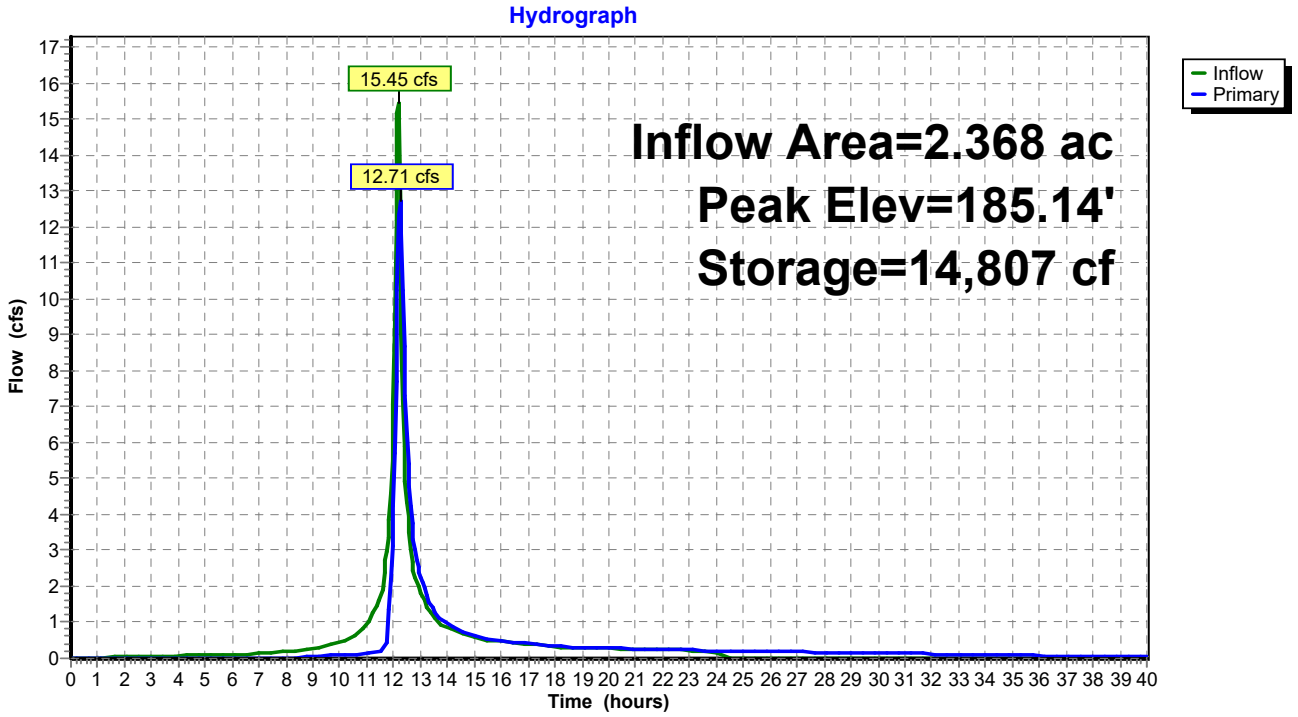
Volume	Invert	Avail.Storage	Storage Description
#1	181.85'	23,005 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
181.85	0	0	0
182.00	3,695	277	277
183.00	4,265	3,980	4,257
184.00	4,870	4,568	8,825
185.00	5,505	5,188	14,012
186.00	6,153	5,829	19,841
186.50	6,502	3,164	23,005

Device	Routing	Invert	Outlet Devices
#1	Primary	181.85'	**18.0" Round Culvert** L= 59.0' Ke= 0.500 Inlet / Outlet Invert= 181.85' / 181.55' S= 0.0051 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	182.50'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.13'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.39'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=12.76 cfs @ 12.24 hrs HW=185.14' (Free Discharge)
- **1=Culvert** (Barrel Controls 12.76 cfs @ 7.22 fps)
  - **2=Orifice/Grate** (Passes < 0.26 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 12.54 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-41: Basin #41



Stage-Discharge for Pond B-41: Basin #41

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.85	0.00	182.37	0.00	182.89	0.09	183.41	0.15
181.86	0.00	182.38	0.00	182.90	0.09	183.42	0.15
181.87	0.00	182.39	0.00	182.91	0.09	183.43	0.15
181.88	0.00	182.40	0.00	182.92	0.09	183.44	0.15
181.89	0.00	182.41	0.00	182.93	0.09	183.45	0.15
181.90	0.00	182.42	0.00	182.94	0.10	183.46	0.15
181.91	0.00	182.43	0.00	182.95	0.10	183.47	0.15
181.92	0.00	182.44	0.00	182.96	0.10	183.48	0.15
181.93	0.00	182.45	0.00	182.97	0.10	183.49	0.15
181.94	0.00	182.46	0.00	182.98	0.10	183.50	0.16
181.95	0.00	182.47	0.00	182.99	0.10	183.51	0.16
181.96	0.00	182.48	0.00	183.00	0.10	183.52	0.16
181.97	0.00	182.49	0.00	183.01	0.10	183.53	0.16
181.98	0.00	182.50	0.00	183.02	0.11	183.54	0.16
181.99	0.00	182.51	0.00	183.03	0.11	183.55	0.16
182.00	0.00	182.52	0.00	183.04	0.11	183.56	0.16
182.01	0.00	182.53	0.00	183.05	0.11	183.57	0.16
182.02	0.00	182.54	0.00	183.06	0.11	183.58	0.16
182.03	0.00	182.55	0.00	183.07	0.11	183.59	0.16
182.04	0.00	182.56	0.01	183.08	0.11	183.60	0.16
182.05	0.00	182.57	0.01	183.09	0.11	183.61	0.16
182.06	0.00	182.58	0.01	183.10	0.12	183.62	0.17
182.07	0.00	182.59	0.01	183.11	0.12	183.63	0.17
182.08	0.00	182.60	0.02	183.12	0.12	183.64	0.17
182.09	0.00	182.61	0.02	183.13	0.12	183.65	0.17
182.10	0.00	182.62	0.02	183.14	0.12	183.66	0.17
182.11	0.00	182.63	0.03	183.15	0.12	183.67	0.17
182.12	0.00	182.64	0.03	183.16	0.12	183.68	0.17
182.13	0.00	182.65	0.03	183.17	0.12	183.69	0.17
182.14	0.00	182.66	0.04	183.18	0.12	183.70	0.17
182.15	0.00	182.67	0.04	183.19	0.13	183.71	0.17
182.16	0.00	182.68	0.05	183.20	0.13	183.72	0.17
182.17	0.00	182.69	0.05	183.21	0.13	183.73	0.17
182.18	0.00	182.70	0.05	183.22	0.13	183.74	0.17
182.19	0.00	182.71	0.05	183.23	0.13	183.75	0.18
182.20	0.00	182.72	0.06	183.24	0.13	183.76	0.18
182.21	0.00	182.73	0.06	183.25	0.13	183.77	0.18
182.22	0.00	182.74	0.06	183.26	0.13	183.78	0.18
182.23	0.00	182.75	0.06	183.27	0.13	183.79	0.18
182.24	0.00	182.76	0.06	183.28	0.13	183.80	0.18
182.25	0.00	182.77	0.07	183.29	0.14	183.81	0.18
182.26	0.00	182.78	0.07	183.30	0.14	183.82	0.18
182.27	0.00	182.79	0.07	183.31	0.14	183.83	0.18
182.28	0.00	182.80	0.07	183.32	0.14	183.84	0.18
182.29	0.00	182.81	0.07	183.33	0.14	183.85	0.18
182.30	0.00	182.82	0.08	183.34	0.14	183.86	0.18
182.31	0.00	182.83	0.08	183.35	0.14	183.87	0.18
182.32	0.00	182.84	0.08	183.36	0.14	183.88	0.19
182.33	0.00	182.85	0.08	183.37	0.14	183.89	0.19
182.34	0.00	182.86	0.08	183.38	0.14	183.90	0.19
182.35	0.00	182.87	0.08	183.39	0.15	183.91	0.19
182.36	0.00	182.88	0.09	183.40	0.15	183.92	0.19

Stage-Discharge for Pond B-41: Basin #41 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.93	0.19	184.45	2.55	184.97	9.90	185.49	17.51
183.94	0.19	184.46	2.66	184.98	10.07	185.50	18.11
183.95	0.19	184.47	2.77	184.99	10.24	185.51	18.74
183.96	0.19	184.48	2.89	185.00	10.41	185.52	19.40
183.97	0.19	184.49	3.00	185.01	10.58	185.53	20.08
183.98	0.19	184.50	3.12	185.02	10.75	185.54	20.78
183.99	0.19	184.51	3.23	185.03	10.92	185.55	21.51
184.00	0.19	184.52	3.35	185.04	11.09	185.56	22.26
184.01	0.19	184.53	3.47	185.05	11.27	185.57	23.03
184.02	0.20	184.54	3.59	185.06	11.44	185.58	23.82
184.03	0.20	184.55	3.71	185.07	11.62	185.59	24.64
184.04	0.20	184.56	3.84	185.08	11.79	185.60	25.51
184.05	0.20	184.57	3.96	185.09	11.97	185.61	26.41
184.06	0.20	184.58	4.09	185.10	12.15	185.62	27.34
184.07	0.20	184.59	4.22	185.11	12.33	185.63	28.29
184.08	0.20	184.60	4.35	185.12	12.51	185.64	29.27
184.09	0.20	184.61	4.48	185.13	12.69	185.65	30.27
184.10	0.20	184.62	4.61	185.14	12.77	185.66	31.29
184.11	0.20	184.63	4.74	185.15	12.80	185.67	32.34
184.12	0.20	184.64	4.88	185.16	12.83	185.68	33.42
184.13	0.20	184.65	5.01	185.17	12.86	185.69	34.52
184.14	0.22	184.66	5.15	185.18	12.89	185.70	35.64
184.15	0.24	184.67	5.29	185.19	12.92	185.71	36.79
184.16	0.27	184.68	5.42	185.20	12.95	185.72	37.96
184.17	0.31	184.69	5.56	185.21	12.98	185.73	39.16
184.18	0.35	184.70	5.71	185.22	13.01	185.74	40.38
184.19	0.40	184.71	5.85	185.23	13.04	185.75	41.63
184.20	0.45	184.72	5.99	185.24	13.07	185.76	42.89
184.21	0.50	184.73	6.14	185.25	13.10	185.77	44.19
184.22	0.56	184.74	6.28	185.26	13.13	185.78	45.51
184.23	0.62	184.75	6.43	185.27	13.16	185.79	46.85
184.24	0.68	184.76	6.58	185.28	13.19	185.80	48.24
184.25	0.75	184.77	6.72	185.29	13.22	185.81	49.66
184.26	0.82	184.78	6.87	185.30	13.25	185.82	51.10
184.27	0.89	184.79	7.02	185.31	13.28	185.83	52.57
184.28	0.97	184.80	7.18	185.32	13.30	185.84	54.07
184.29	1.04	184.81	7.33	185.33	13.33	185.85	55.59
184.30	1.12	184.82	7.48	185.34	13.36	185.86	57.14
184.31	1.20	184.83	7.64	185.35	13.39	185.87	58.72
184.32	1.29	184.84	7.79	185.36	13.42	185.88	60.32
184.33	1.37	184.85	7.95	185.37	13.45	185.89	61.95
184.34	1.46	184.86	8.11	185.38	13.48	185.90	63.60
184.35	1.55	184.87	8.27	185.39	13.51	185.91	65.28
184.36	1.64	184.88	8.42	185.40	13.65	185.92	66.99
184.37	1.74	184.89	8.59	185.41	13.90	185.93	68.72
184.38	1.83	184.90	8.75	185.42	14.20	185.94	70.48
184.39	1.93	184.91	8.91	185.43	14.56	185.95	72.27
184.40	2.03	184.92	9.07	185.44	14.96	185.96	74.09
184.41	2.13	184.93	9.24	185.45	15.40	185.97	75.93
184.42	2.23	184.94	9.40	185.46	15.88	185.98	77.80
184.43	2.34	184.95	9.57	185.47	16.39	185.99	79.69
184.44	2.45	184.96	9.73	185.48	16.94	186.00	81.34

Stage-Discharge for Pond B-41: Basin #41 (continued)

Elevation (feet)	Primary (cfs)
186.01	83.01
186.02	84.69
186.03	86.38
186.04	88.09
186.05	89.81
186.06	91.54
186.07	93.29
186.08	95.04
186.09	96.81
186.10	98.60
186.11	100.40
186.12	102.20
186.13	104.03
186.14	105.86
186.15	107.71
186.16	109.56
186.17	111.44
186.18	113.32
186.19	115.21
186.20	117.16
186.21	119.11
186.22	121.09
186.23	123.07
186.24	125.07
186.25	127.08
186.26	129.10
186.27	131.14
186.28	133.19
186.29	135.25
186.30	137.32
186.31	139.41
186.32	141.51
186.33	143.63
186.34	145.75
186.35	147.89
186.36	150.04
186.37	152.21
186.38	154.38
186.39	156.57
186.40	158.72
186.41	160.88
186.42	163.05
186.43	165.23
186.44	167.42
186.45	169.62
186.46	171.83
186.47	174.05
186.48	176.29
186.49	178.53
186.50	**180.78**

Stage-Area-Storage for Pond B-41: Basin #41

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.85	0	0	182.37	3,906	1,683
181.86	246	1	182.38	3,912	1,722
181.87	493	5	182.39	3,917	1,762
181.88	739	11	182.40	3,923	1,801
181.89	985	20	182.41	3,929	1,840
181.90	1,232	31	182.42	3,934	1,879
181.91	1,478	44	182.43	3,940	1,919
181.92	1,724	60	182.44	3,946	1,958
181.93	1,971	79	182.45	3,951	1,998
181.94	2,217	100	182.46	3,957	2,037
181.95	2,463	123	182.47	3,963	2,077
181.96	2,710	149	182.48	3,969	2,116
181.97	2,956	177	182.49	3,974	2,156
181.98	3,202	208	182.50	3,980	2,196
181.99	3,449	241	182.51	3,986	2,236
182.00	3,695	277	182.52	3,991	2,276
182.01	3,701	314	182.53	3,997	2,316
182.02	3,706	351	182.54	4,003	2,356
182.03	3,712	388	182.55	4,008	2,396
182.04	3,718	425	182.56	4,014	2,436
182.05	3,723	463	182.57	4,020	2,476
182.06	3,729	500	182.58	4,026	2,516
182.07	3,735	537	182.59	4,031	2,556
182.08	3,741	575	182.60	4,037	2,597
182.09	3,746	612	182.61	4,043	2,637
182.10	3,752	649	182.62	4,048	2,678
182.11	3,758	687	182.63	4,054	2,718
182.12	3,763	725	182.64	4,060	2,759
182.13	3,769	762	182.65	4,066	2,799
182.14	3,775	800	182.66	4,071	2,840
182.15	3,781	838	182.67	4,077	2,881
182.16	3,786	876	182.68	4,083	2,922
182.17	3,792	914	182.69	4,088	2,962
182.18	3,798	951	182.70	4,094	3,003
182.19	3,803	989	182.71	4,100	3,044
182.20	3,809	1,028	182.72	4,105	3,085
182.21	3,815	1,066	182.73	4,111	3,126
182.22	3,820	1,104	182.74	4,117	3,167
182.23	3,826	1,142	182.75	4,123	3,209
182.24	3,832	1,180	182.76	4,128	3,250
182.25	3,838	1,219	182.77	4,134	3,291
182.26	3,843	1,257	182.78	4,140	3,333
182.27	3,849	1,296	182.79	4,145	3,374
182.28	3,855	1,334	182.80	4,151	3,416
182.29	3,860	1,373	182.81	4,157	3,457
182.30	3,866	1,411	182.82	4,162	3,499
182.31	3,872	1,450	182.83	4,168	3,540
182.32	3,877	1,489	182.84	4,174	3,582
182.33	3,883	1,528	182.85	4,179	3,624
182.34	3,889	1,566	182.86	4,185	3,666
182.35	3,894	1,605	182.87	4,191	3,707
182.36	3,900	1,644	182.88	4,197	3,749

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.89	4,202	3,791	183.41	4,513	6,057
182.90	4,208	3,833	183.42	4,519	6,102
182.91	4,214	3,876	183.43	4,525	6,147
182.92	4,219	3,918	183.44	4,531	6,192
182.93	4,225	3,960	183.45	4,537	6,238
182.94	4,231	4,002	183.46	4,543	6,283
182.95	4,236	4,045	183.47	4,549	6,328
182.96	4,242	4,087	183.48	4,555	6,374
182.97	4,248	4,129	183.49	4,561	6,420
182.98	4,254	4,172	183.50	4,568	6,465
182.99	4,259	4,215	183.51	4,574	6,511
183.00	4,265	4,257	183.52	4,580	6,557
183.01	4,271	4,300	183.53	4,586	6,603
183.02	4,277	4,343	183.54	4,592	6,648
183.03	4,283	4,385	183.55	4,598	6,694
183.04	4,289	4,428	183.56	4,604	6,740
183.05	4,295	4,471	183.57	4,610	6,786
183.06	4,301	4,514	183.58	4,616	6,833
183.07	4,307	4,557	183.59	4,622	6,879
183.08	4,313	4,600	183.60	4,628	6,925
183.09	4,319	4,643	183.61	4,634	6,971
183.10	4,325	4,687	183.62	4,640	7,018
183.11	4,332	4,730	183.63	4,646	7,064
183.12	4,338	4,773	183.64	4,652	7,111
183.13	4,344	4,817	183.65	4,658	7,157
183.14	4,350	4,860	183.66	4,664	7,204
183.15	4,356	4,904	183.67	4,670	7,250
183.16	4,362	4,947	183.68	4,676	7,297
183.17	4,368	4,991	183.69	4,682	7,344
183.18	4,374	5,035	183.70	4,688	7,391
183.19	4,380	5,078	183.71	4,695	7,438
183.20	4,386	5,122	183.72	4,701	7,485
183.21	4,392	5,166	183.73	4,707	7,532
183.22	4,398	5,210	183.74	4,713	7,579
183.23	4,404	5,254	183.75	4,719	7,626
183.24	4,410	5,298	183.76	4,725	7,673
183.25	4,416	5,342	183.77	4,731	7,721
183.26	4,422	5,386	183.78	4,737	7,768
183.27	4,428	5,431	183.79	4,743	7,815
183.28	4,434	5,475	183.80	4,749	7,863
183.29	4,440	5,519	183.81	4,755	7,910
183.30	4,446	5,564	183.82	4,761	7,958
183.31	4,453	5,608	183.83	4,767	8,005
183.32	4,459	5,653	183.84	4,773	8,053
183.33	4,465	5,698	183.85	4,779	8,101
183.34	4,471	5,742	183.86	4,785	8,149
183.35	4,477	5,787	183.87	4,791	8,197
183.36	4,483	5,832	183.88	4,797	8,245
183.37	4,489	5,877	183.89	4,803	8,293
183.38	4,495	5,922	183.90	4,810	8,341
183.39	4,501	5,966	183.91	4,816	8,389
183.40	4,507	6,012	183.92	4,822	8,437

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.93	4,828	8,485	184.45	5,156	11,080
183.94	4,834	8,534	184.46	5,162	11,132
183.95	4,840	8,582	184.47	5,168	11,184
183.96	4,846	8,630	184.48	5,175	11,235
183.97	4,852	8,679	184.49	5,181	11,287
183.98	4,858	8,727	184.50	5,188	11,339
183.99	4,864	8,776	184.51	5,194	11,391
184.00	4,870	8,825	184.52	5,200	11,443
184.01	4,876	8,873	184.53	5,207	11,495
184.02	4,883	8,922	184.54	5,213	11,547
184.03	4,889	8,971	184.55	5,219	11,599
184.04	4,895	9,020	184.56	5,226	11,651
184.05	4,902	9,069	184.57	5,232	11,704
184.06	4,908	9,118	184.58	5,238	11,756
184.07	4,914	9,167	184.59	5,245	11,808
184.08	4,921	9,216	184.60	5,251	11,861
184.09	4,927	9,265	184.61	5,257	11,913
184.10	4,933	9,315	184.62	5,264	11,966
184.11	4,940	9,364	184.63	5,270	12,019
184.12	4,946	9,414	184.64	5,276	12,071
184.13	4,953	9,463	184.65	5,283	12,124
184.14	4,959	9,513	184.66	5,289	12,177
184.15	4,965	9,562	184.67	5,295	12,230
184.16	4,972	9,612	184.68	5,302	12,283
184.17	4,978	9,662	184.69	5,308	12,336
184.18	4,984	9,712	184.70	5,314	12,389
184.19	4,991	9,761	184.71	5,321	12,442
184.20	4,997	9,811	184.72	5,327	12,496
184.21	5,003	9,861	184.73	5,334	12,549
184.22	5,010	9,911	184.74	5,340	12,602
184.23	5,016	9,962	184.75	5,346	12,656
184.24	5,022	10,012	184.76	5,353	12,709
184.25	5,029	10,062	184.77	5,359	12,763
184.26	5,035	10,112	184.78	5,365	12,816
184.27	5,041	10,163	184.79	5,372	12,870
184.28	5,048	10,213	184.80	5,378	12,924
184.29	5,054	10,264	184.81	5,384	12,978
184.30	5,060	10,314	184.82	5,391	13,032
184.31	5,067	10,365	184.83	5,397	13,085
184.32	5,073	10,416	184.84	5,403	13,139
184.33	5,080	10,466	184.85	5,410	13,194
184.34	5,086	10,517	184.86	5,416	13,248
184.35	5,092	10,568	184.87	5,422	13,302
184.36	5,099	10,619	184.88	5,429	13,356
184.37	5,105	10,670	184.89	5,435	13,410
184.38	5,111	10,721	184.90	5,442	13,465
184.39	5,118	10,772	184.91	5,448	13,519
184.40	5,124	10,823	184.92	5,454	13,574
184.41	5,130	10,875	184.93	5,461	13,628
184.42	5,137	10,926	184.94	5,467	13,683
184.43	5,143	10,977	184.95	5,473	13,738
184.44	5,149	11,029	184.96	5,480	13,792

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.97	5,486	13,847	185.49	5,823	16,787
184.98	5,492	13,902	185.50	5,829	16,846
184.99	5,499	13,957	185.51	5,835	16,904
185.00	5,505	14,012	185.52	5,842	16,962
185.01	5,511	14,067	185.53	5,848	17,021
185.02	5,518	14,122	185.54	5,855	17,079
185.03	5,524	14,178	185.55	5,861	17,138
185.04	5,531	14,233	185.56	5,868	17,197
185.05	5,537	14,288	185.57	5,874	17,255
185.06	5,544	14,344	185.58	5,881	17,314
185.07	5,550	14,399	185.59	5,887	17,373
185.08	5,557	14,455	185.60	5,894	17,432
185.09	5,563	14,510	185.61	5,900	17,491
185.10	5,570	14,566	185.62	5,907	17,550
185.11	5,576	14,622	185.63	5,913	17,609
185.12	5,583	14,677	185.64	5,920	17,668
185.13	5,589	14,733	185.65	5,926	17,727
185.14	5,596	14,789	185.66	5,933	17,787
185.15	5,602	14,845	185.67	5,939	17,846
185.16	5,609	14,901	185.68	5,946	17,905
185.17	5,615	14,957	185.69	5,952	17,965
185.18	5,622	15,014	185.70	5,959	18,024
185.19	5,628	15,070	185.71	5,965	18,084
185.20	5,635	15,126	185.72	5,972	18,144
185.21	5,641	15,182	185.73	5,978	18,203
185.22	5,648	15,239	185.74	5,985	18,263
185.23	5,654	15,295	185.75	5,991	18,323
185.24	5,661	15,352	185.76	5,997	18,383
185.25	5,667	15,409	185.77	6,004	18,443
185.26	5,673	15,465	185.78	6,010	18,503
185.27	5,680	15,522	185.79	6,017	18,563
185.28	5,686	15,579	185.80	6,023	18,623
185.29	5,693	15,636	185.81	6,030	18,684
185.30	5,699	15,693	185.82	6,036	18,744
185.31	5,706	15,750	185.83	6,043	18,804
185.32	5,712	15,807	185.84	6,049	18,865
185.33	5,719	15,864	185.85	6,056	18,925
185.34	5,725	15,921	185.86	6,062	18,986
185.35	5,732	15,979	185.87	6,069	19,047
185.36	5,738	16,036	185.88	6,075	19,107
185.37	5,745	16,093	185.89	6,082	19,168
185.38	5,751	16,151	185.90	6,088	19,229
185.39	5,758	16,208	185.91	6,095	19,290
185.40	5,764	16,266	185.92	6,101	19,351
185.41	5,771	16,324	185.93	6,108	19,412
185.42	5,777	16,381	185.94	6,114	19,473
185.43	5,784	16,439	185.95	6,121	19,534
185.44	5,790	16,497	185.96	6,127	19,596
185.45	5,797	16,555	185.97	6,134	19,657
185.46	5,803	16,613	185.98	6,140	19,718
185.47	5,810	16,671	185.99	6,147	19,780
185.48	5,816	16,729	186.00	6,153	19,841

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.01	6,160	19,903
186.02	6,167	19,964
186.03	6,174	20,026
186.04	6,181	20,088
186.05	6,188	20,150
186.06	6,195	20,212
186.07	6,202	20,274
186.08	6,209	20,336
186.09	6,216	20,398
186.10	6,223	20,460
186.11	6,230	20,522
186.12	6,237	20,585
186.13	6,244	20,647
186.14	6,251	20,709
186.15	6,258	20,772
186.16	6,265	20,835
186.17	6,272	20,897
186.18	6,279	20,960
186.19	6,286	21,023
186.20	6,293	21,086
186.21	6,300	21,149
186.22	6,307	21,212
186.23	6,314	21,275
186.24	6,321	21,338
186.25	6,328	21,401
186.26	6,334	21,464
186.27	6,341	21,528
186.28	6,348	21,591
186.29	6,355	21,655
186.30	6,362	21,718
186.31	6,369	21,782
186.32	6,376	21,846
186.33	6,383	21,910
186.34	6,390	21,973
186.35	6,397	22,037
186.36	6,404	22,101
186.37	6,411	22,166
186.38	6,418	22,230
186.39	6,425	22,294
186.40	6,432	22,358
186.41	6,439	22,423
186.42	6,446	22,487
186.43	6,453	22,551
186.44	6,460	22,616
186.45	6,467	22,681
186.46	6,474	22,745
186.47	6,481	22,810
186.48	6,488	22,875
186.49	6,495	22,940
186.50	**6,502**	**23,005**

Summary for Pond B-42: Basin #42

Inflow Area = 0.777 ac, 38.35% Impervious, Inflow Depth = 6.57" for Current 100 yr event
Inflow = 5.20 cfs @ 12.17 hrs, Volume= 0.425 af
Outflow = 1.90 cfs @ 12.42 hrs, Volume= 0.329 af, Atten= 63%, Lag= 14.8 min
Primary = 1.90 cfs @ 12.42 hrs, Volume= 0.329 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 184.27' @ 12.42 hrs Surf.Area= 3,809 sf Storage= 9,673 cf

Plug-Flow detention time= 383.2 min calculated for 0.329 af (77% of inflow)
Center-of-Mass det. time= 296.8 min (1,080.1 - 783.3)

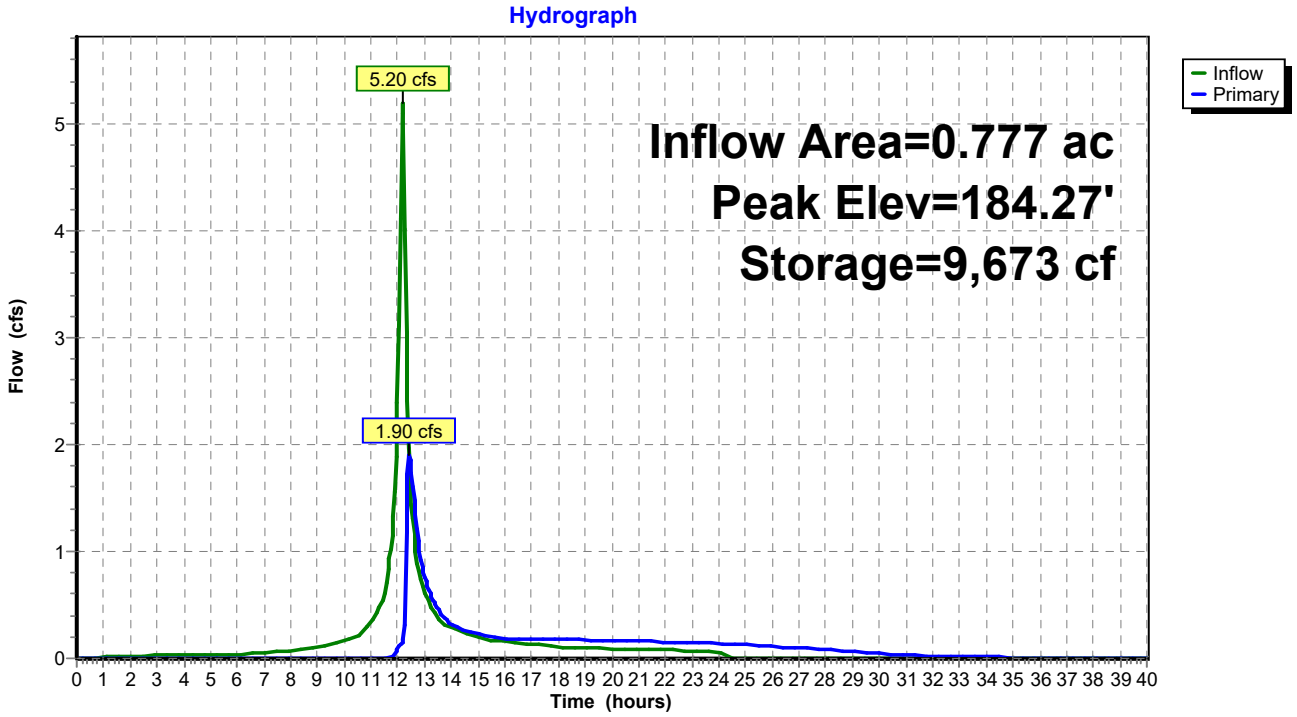
Volume	Invert	Avail.Storage	Storage Description
#1	180.96'	22,293 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
180.96	0	0	0
181.00	2,142	43	43
182.00	2,613	2,378	2,420
183.00	3,118	2,866	5,286
184.00	3,656	3,387	8,673
185.00	4,227	3,942	12,614
186.00	4,831	4,529	17,143
187.00	5,468	5,150	22,293

Device	Routing	Invert	Outlet Devices
#1	Primary	181.96'	**18.0" Round Culvert** L= 192.0' Ke= 0.500 Inlet / Outlet Invert= 181.96' / 181.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	182.60'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.01'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.99'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.87 cfs @ 12.42 hrs HW=184.27' (Free Discharge)
- **1=Culvert** (Passes 1.87 cfs of 8.42 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.21 cfs @ 6.02 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 1.67 cfs @ 1.65 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-42: Basin #42



Stage-Discharge for Pond B-42: Basin #42

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.96	0.00	181.48	0.00	182.00	0.00	182.52	0.00
180.97	0.00	181.49	0.00	182.01	0.00	182.53	0.00
180.98	0.00	181.50	0.00	182.02	0.00	182.54	0.00
180.99	0.00	181.51	0.00	182.03	0.00	182.55	0.00
181.00	0.00	181.52	0.00	182.04	0.00	182.56	0.00
181.01	0.00	181.53	0.00	182.05	0.00	182.57	0.00
181.02	0.00	181.54	0.00	182.06	0.00	182.58	0.00
181.03	0.00	181.55	0.00	182.07	0.00	182.59	0.00
181.04	0.00	181.56	0.00	182.08	0.00	182.60	0.00
181.05	0.00	181.57	0.00	182.09	0.00	182.61	0.00
181.06	0.00	181.58	0.00	182.10	0.00	182.62	0.00
181.07	0.00	181.59	0.00	182.11	0.00	182.63	0.00
181.08	0.00	181.60	0.00	182.12	0.00	182.64	0.00
181.09	0.00	181.61	0.00	182.13	0.00	182.65	0.00
181.10	0.00	181.62	0.00	182.14	0.00	182.66	0.01
181.11	0.00	181.63	0.00	182.15	0.00	182.67	0.01
181.12	0.00	181.64	0.00	182.16	0.00	182.68	0.01
181.13	0.00	181.65	0.00	182.17	0.00	182.69	0.01
181.14	0.00	181.66	0.00	182.18	0.00	182.70	0.02
181.15	0.00	181.67	0.00	182.19	0.00	182.71	0.02
181.16	0.00	181.68	0.00	182.20	0.00	182.72	0.02
181.17	0.00	181.69	0.00	182.21	0.00	182.73	0.03
181.18	0.00	181.70	0.00	182.22	0.00	182.74	0.03
181.19	0.00	181.71	0.00	182.23	0.00	182.75	0.03
181.20	0.00	181.72	0.00	182.24	0.00	182.76	0.04
181.21	0.00	181.73	0.00	182.25	0.00	182.77	0.04
181.22	0.00	181.74	0.00	182.26	0.00	182.78	0.05
181.23	0.00	181.75	0.00	182.27	0.00	182.79	0.05
181.24	0.00	181.76	0.00	182.28	0.00	182.80	0.05
181.25	0.00	181.77	0.00	182.29	0.00	182.81	0.05
181.26	0.00	181.78	0.00	182.30	0.00	182.82	0.06
181.27	0.00	181.79	0.00	182.31	0.00	182.83	0.06
181.28	0.00	181.80	0.00	182.32	0.00	182.84	0.06
181.29	0.00	181.81	0.00	182.33	0.00	182.85	0.06
181.30	0.00	181.82	0.00	182.34	0.00	182.86	0.06
181.31	0.00	181.83	0.00	182.35	0.00	182.87	0.07
181.32	0.00	181.84	0.00	182.36	0.00	182.88	0.07
181.33	0.00	181.85	0.00	182.37	0.00	182.89	0.07
181.34	0.00	181.86	0.00	182.38	0.00	182.90	0.07
181.35	0.00	181.87	0.00	182.39	0.00	182.91	0.07
181.36	0.00	181.88	0.00	182.40	0.00	182.92	0.08
181.37	0.00	181.89	0.00	182.41	0.00	182.93	0.08
181.38	0.00	181.90	0.00	182.42	0.00	182.94	0.08
181.39	0.00	181.91	0.00	182.43	0.00	182.95	0.08
181.40	0.00	181.92	0.00	182.44	0.00	182.96	0.08
181.41	0.00	181.93	0.00	182.45	0.00	182.97	0.08
181.42	0.00	181.94	0.00	182.46	0.00	182.98	0.09
181.43	0.00	181.95	0.00	182.47	0.00	182.99	0.09
181.44	0.00	181.96	0.00	182.48	0.00	183.00	0.09
181.45	0.00	181.97	0.00	182.49	0.00	183.01	0.09
181.46	0.00	181.98	0.00	182.50	0.00	183.02	0.09
181.47	0.00	181.99	0.00	182.51	0.00	183.03	0.09

Stage-Discharge for Pond B-42: Basin #42 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.04	0.10	183.56	0.15	184.08	0.43	184.60	5.98
183.05	0.10	183.57	0.15	184.09	0.49	184.61	6.12
183.06	0.10	183.58	0.15	184.10	0.55	184.62	6.27
183.07	0.10	183.59	0.15	184.11	0.61	184.63	6.42
183.08	0.10	183.60	0.16	184.12	0.67	184.64	6.56
183.09	0.10	183.61	0.16	184.13	0.74	184.65	6.71
183.10	0.10	183.62	0.16	184.14	0.81	184.66	6.86
183.11	0.10	183.63	0.16	184.15	0.88	184.67	7.01
183.12	0.11	183.64	0.16	184.16	0.95	184.68	7.16
183.13	0.11	183.65	0.16	184.17	1.03	184.69	7.32
183.14	0.11	183.66	0.16	184.18	1.11	184.70	7.47
183.15	0.11	183.67	0.16	184.19	1.19	184.71	7.62
183.16	0.11	183.68	0.16	184.20	1.27	184.72	7.78
183.17	0.11	183.69	0.16	184.21	1.36	184.73	7.94
183.18	0.11	183.70	0.16	184.22	1.45	184.74	8.09
183.19	0.11	183.71	0.16	184.23	1.54	184.75	8.25
183.20	0.12	183.72	0.17	184.24	1.63	184.76	8.41
183.21	0.12	183.73	0.17	184.25	1.72	184.77	8.57
183.22	0.12	183.74	0.17	184.26	1.82	184.78	8.73
183.23	0.12	183.75	0.17	184.27	1.92	184.79	8.90
183.24	0.12	183.76	0.17	184.28	2.02	184.80	9.06
183.25	0.12	183.77	0.17	184.29	2.12	184.81	9.22
183.26	0.12	183.78	0.17	184.30	2.22	184.82	9.39
183.27	0.12	183.79	0.17	184.31	2.33	184.83	9.55
183.28	0.12	183.80	0.17	184.32	2.43	184.84	9.69
183.29	0.13	183.81	0.17	184.33	2.54	184.85	9.71
183.30	0.13	183.82	0.17	184.34	2.65	184.86	9.73
183.31	0.13	183.83	0.17	184.35	2.76	184.87	9.75
183.32	0.13	183.84	0.17	184.36	2.87	184.88	9.77
183.33	0.13	183.85	0.18	184.37	2.99	184.89	9.79
183.34	0.13	183.86	0.18	184.38	3.10	184.90	9.81
183.35	0.13	183.87	0.18	184.39	3.22	184.91	9.83
183.36	0.13	183.88	0.18	184.40	3.34	184.92	9.85
183.37	0.13	183.89	0.18	184.41	3.46	184.93	9.88
183.38	0.13	183.90	0.18	184.42	3.58	184.94	9.90
183.39	0.14	183.91	0.18	184.43	3.70	184.95	9.92
183.40	0.14	183.92	0.18	184.44	3.83	184.96	9.94
183.41	0.14	183.93	0.18	184.45	3.95	184.97	9.96
183.42	0.14	183.94	0.18	184.46	4.08	184.98	9.98
183.43	0.14	183.95	0.18	184.47	4.21	184.99	10.00
183.44	0.14	183.96	0.18	184.48	4.33	185.00	10.02
183.45	0.14	183.97	0.18	184.49	4.46	185.01	10.04
183.46	0.14	183.98	0.19	184.50	4.60	185.02	10.06
183.47	0.14	183.99	0.19	184.51	4.73	185.03	10.08
183.48	0.14	184.00	0.19	184.52	4.86	185.04	10.10
183.49	0.15	184.01	0.19	184.53	5.00	185.05	10.12
183.50	0.15	184.02	0.20	184.54	5.14	185.06	10.14
183.51	0.15	184.03	0.23	184.55	5.27	185.07	10.16
183.52	0.15	184.04	0.26	184.56	5.41	185.08	10.18
183.53	0.15	184.05	0.29	184.57	5.55	185.09	10.20
183.54	0.15	184.06	0.34	184.58	5.69	185.10	10.21
183.55	0.15	184.07	0.38	184.59	5.84	185.11	10.23

Stage-Discharge for Pond B-42: Basin #42 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.12	10.25	185.64	11.23	186.16	20.39	186.68	92.62
185.13	10.27	185.65	11.24	186.17	21.15	186.69	94.39
185.14	10.29	185.66	11.26	186.18	21.93	186.70	96.16
185.15	10.31	185.67	11.28	186.19	22.73	186.71	97.95
185.16	10.33	185.68	11.30	186.20	23.60	186.72	99.75
185.17	10.35	185.69	11.31	186.21	24.49	186.73	101.56
185.18	10.37	185.70	11.33	186.22	25.40	186.74	103.38
185.19	10.39	185.71	11.35	186.23	26.34	186.75	105.22
185.20	10.41	185.72	11.37	186.24	27.30	186.76	107.07
185.21	10.43	185.73	11.39	186.25	28.29	186.77	108.93
185.22	10.45	185.74	11.40	186.26	29.31	186.78	110.80
185.23	10.47	185.75	11.42	186.27	30.35	186.79	112.69
185.24	10.49	185.76	11.44	186.28	31.41	186.80	114.62
185.25	10.51	185.77	11.46	186.29	32.50	186.81	116.57
185.26	10.52	185.78	11.47	186.30	33.61	186.82	118.53
185.27	10.54	185.79	11.49	186.31	34.75	186.83	120.50
185.28	10.56	185.80	11.51	186.32	35.91	186.84	122.49
185.29	10.58	185.81	11.53	186.33	37.10	186.85	124.49
185.30	10.60	185.82	11.54	186.34	38.31	186.86	126.51
185.31	10.62	185.83	11.56	186.35	39.54	186.87	128.53
185.32	10.64	185.84	11.58	186.36	40.80	186.88	130.57
185.33	10.66	185.85	11.59	186.37	42.09	186.89	132.63
185.34	10.68	185.86	11.61	186.38	43.39	186.90	134.69
185.35	10.69	185.87	11.63	186.39	44.72	186.91	136.77
185.36	10.71	185.88	11.65	186.40	46.11	186.92	138.86
185.37	10.73	185.89	11.66	186.41	47.51	186.93	140.97
185.38	10.75	185.90	11.68	186.42	48.95	186.94	143.08
185.39	10.77	185.91	11.70	186.43	50.41	186.95	145.21
185.40	10.79	185.92	11.72	186.44	51.89	186.96	147.35
185.41	10.81	185.93	11.73	186.45	53.41	186.97	149.51
185.42	10.83	185.94	11.75	186.46	54.95	186.98	151.68
185.43	10.84	185.95	11.77	186.47	56.51	186.99	153.86
185.44	10.86	185.96	11.78	186.48	58.10	187.00	**155.99**
185.45	10.88	185.97	11.80	186.49	59.72		
185.46	10.90	185.98	11.82	186.50	61.36		
185.47	10.92	185.99	11.83	186.51	63.03		
185.48	10.94	186.00	11.97	186.52	64.73		
185.49	10.95	186.01	12.20	186.53	66.45		
185.50	10.97	186.02	12.49	186.54	68.21		
185.51	10.99	186.03	12.84	186.55	69.98		
185.52	11.01	186.04	13.23	186.56	71.79		
185.53	11.03	186.05	13.66	186.57	73.62		
185.54	11.05	186.06	14.13	186.58	75.48		
185.55	11.06	186.07	14.63	186.59	77.36		
185.56	11.08	186.08	15.16	186.60	79.00		
185.57	11.10	186.09	15.72	186.61	80.66		
185.58	11.12	186.10	16.31	186.62	82.33		
185.59	11.14	186.11	16.93	186.63	84.01		
185.60	11.15	186.12	17.57	186.64	85.71		
185.61	11.17	186.13	18.24	186.65	87.42		
185.62	11.19	186.14	18.93	186.66	89.14		
185.63	11.21	186.15	19.65	186.67	90.88		

Stage-Area-Storage for Pond B-42: Basin #42

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.96	0	0
180.97	535	3
180.98	1,071	11
180.99	1,607	24
181.00	2,142	43
181.01	2,147	64
181.02	2,151	86
181.03	2,156	107
181.04	2,161	129
181.05	2,166	151
181.06	2,170	172
181.07	2,175	194
181.08	2,180	216
181.09	2,184	238
181.10	2,189	259
181.11	2,194	281
181.12	2,199	303
181.13	2,203	325
181.14	2,208	347
181.15	2,213	369
181.16	2,217	392
181.17	2,222	414
181.18	2,227	436
181.19	2,231	458
181.20	2,236	481
181.21	2,241	503
181.22	2,246	525
181.23	2,250	548
181.24	2,255	570
181.25	2,260	593
181.26	2,264	616
181.27	2,269	638
181.28	2,274	661
181.29	2,279	684
181.30	2,283	707
181.31	2,288	729
181.32	2,293	752
181.33	2,297	775
181.34	2,302	798
181.35	2,307	821
181.36	2,312	844
181.37	2,316	868
181.38	2,321	891
181.39	2,326	914
181.40	2,330	937
181.41	2,335	961
181.42	2,340	984
181.43	2,345	1,007
181.44	2,349	1,031
181.45	2,354	1,054
181.46	2,359	1,078
181.47	2,363	1,102
181.48	2,368	1,125
181.49	2,373	1,149
181.50	2,378	1,173
181.51	2,382	1,197
181.52	2,387	1,220
181.53	2,392	1,244
181.54	2,396	1,268
181.55	2,401	1,292
181.56	2,406	1,316
181.57	2,410	1,340
181.58	2,415	1,364
181.59	2,420	1,389
181.60	2,425	1,413
181.61	2,429	1,437
181.62	2,434	1,461
181.63	2,439	1,486
181.64	2,443	1,510
181.65	2,448	1,535
181.66	2,453	1,559
181.67	2,458	1,584
181.68	2,462	1,608
181.69	2,467	1,633
181.70	2,472	1,658
181.71	2,476	1,682
181.72	2,481	1,707
181.73	2,486	1,732
181.74	2,491	1,757
181.75	2,495	1,782
181.76	2,500	1,807
181.77	2,505	1,832
181.78	2,509	1,857
181.79	2,514	1,882
181.80	2,519	1,907
181.81	2,524	1,932
181.82	2,528	1,958
181.83	2,533	1,983
181.84	2,538	2,008
181.85	2,542	2,034
181.86	2,547	2,059
181.87	2,552	2,085
181.88	2,556	2,110
181.89	2,561	2,136
181.90	2,566	2,161
181.91	2,571	2,187
181.92	2,575	2,213
181.93	2,580	2,239
181.94	2,585	2,264
181.95	2,589	2,290
181.96	2,594	2,316
181.97	2,599	2,342
181.98	2,604	2,368
181.99	2,608	2,394

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.00	2,613	2,420	182.52	2,876	3,847
182.01	2,618	2,446	182.53	2,881	3,876
182.02	2,623	2,473	182.54	2,886	3,905
182.03	2,628	2,499	182.55	2,891	3,934
182.04	2,633	2,525	182.56	2,896	3,963
182.05	2,638	2,552	182.57	2,901	3,992
182.06	2,643	2,578	182.58	2,906	4,021
182.07	2,648	2,604	182.59	2,911	4,050
182.08	2,653	2,631	182.60	2,916	4,079
182.09	2,658	2,658	182.61	2,921	4,108
182.10	2,663	2,684	182.62	2,926	4,137
182.11	2,669	2,711	182.63	2,931	4,167
182.12	2,674	2,738	182.64	2,936	4,196
182.13	2,679	2,764	182.65	2,941	4,225
182.14	2,684	2,791	182.66	2,946	4,255
182.15	2,689	2,818	182.67	2,951	4,284
182.16	2,694	2,845	182.68	2,956	4,314
182.17	2,699	2,872	182.69	2,961	4,344
182.18	2,704	2,899	182.70	2,967	4,373
182.19	2,709	2,926	182.71	2,972	4,403
182.20	2,714	2,953	182.72	2,977	4,433
182.21	2,719	2,980	182.73	2,982	4,462
182.22	2,724	3,007	182.74	2,987	4,492
182.23	2,729	3,035	182.75	2,992	4,522
182.24	2,734	3,062	182.76	2,997	4,552
182.25	2,739	3,089	182.77	3,002	4,582
182.26	2,744	3,117	182.78	3,007	4,612
182.27	2,749	3,144	182.79	3,012	4,642
182.28	2,754	3,172	182.80	3,017	4,672
182.29	2,759	3,199	182.81	3,022	4,703
182.30	2,765	3,227	182.82	3,027	4,733
182.31	2,770	3,255	182.83	3,032	4,763
182.32	2,775	3,282	182.84	3,037	4,793
182.33	2,780	3,310	182.85	3,042	4,824
182.34	2,785	3,338	182.86	3,047	4,854
182.35	2,790	3,366	182.87	3,052	4,885
182.36	2,795	3,394	182.88	3,057	4,915
182.37	2,800	3,422	182.89	3,062	4,946
182.38	2,805	3,450	182.90	3,068	4,977
182.39	2,810	3,478	182.91	3,073	5,007
182.40	2,815	3,506	182.92	3,078	5,038
182.41	2,820	3,534	182.93	3,083	5,069
182.42	2,825	3,562	182.94	3,088	5,100
182.43	2,830	3,591	182.95	3,093	5,131
182.44	2,835	3,619	182.96	3,098	5,162
182.45	2,840	3,647	182.97	3,103	5,193
182.46	2,845	3,676	182.98	3,108	5,224
182.47	2,850	3,704	182.99	3,113	5,255
182.48	2,855	3,733	183.00	3,118	5,286
182.49	2,860	3,761	183.01	3,123	5,317
182.50	2,866	3,790	183.02	3,129	5,348
182.51	2,871	3,819	183.03	3,134	5,380

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.04	3,140	5,411	183.56	3,419	7,116
183.05	3,145	5,442	183.57	3,425	7,150
183.06	3,150	5,474	183.58	3,430	7,185
183.07	3,156	5,505	183.59	3,435	7,219
183.08	3,161	5,537	183.60	3,441	7,253
183.09	3,166	5,569	183.61	3,446	7,288
183.10	3,172	5,600	183.62	3,452	7,322
183.11	3,177	5,632	183.63	3,457	7,357
183.12	3,183	5,664	183.64	3,462	7,392
183.13	3,188	5,696	183.65	3,468	7,426
183.14	3,193	5,728	183.66	3,473	7,461
183.15	3,199	5,760	183.67	3,478	7,496
183.16	3,204	5,792	183.68	3,484	7,530
183.17	3,209	5,824	183.69	3,489	7,565
183.18	3,215	5,856	183.70	3,495	7,600
183.19	3,220	5,888	183.71	3,500	7,635
183.20	3,226	5,920	183.72	3,505	7,670
183.21	3,231	5,952	183.73	3,511	7,705
183.22	3,236	5,985	183.74	3,516	7,740
183.23	3,242	6,017	183.75	3,522	7,776
183.24	3,247	6,050	183.76	3,527	7,811
183.25	3,253	6,082	183.77	3,532	7,846
183.26	3,258	6,115	183.78	3,538	7,882
183.27	3,263	6,147	183.79	3,543	7,917
183.28	3,269	6,180	183.80	3,548	7,952
183.29	3,274	6,213	183.81	3,554	7,988
183.30	3,279	6,245	183.82	3,559	8,023
183.31	3,285	6,278	183.83	3,565	8,059
183.32	3,290	6,311	183.84	3,570	8,095
183.33	3,296	6,344	183.85	3,575	8,130
183.34	3,301	6,377	183.86	3,581	8,166
183.35	3,306	6,410	183.87	3,586	8,202
183.36	3,312	6,443	183.88	3,591	8,238
183.37	3,317	6,476	183.89	3,597	8,274
183.38	3,322	6,510	183.90	3,602	8,310
183.39	3,328	6,543	183.91	3,608	8,346
183.40	3,333	6,576	183.92	3,613	8,382
183.41	3,339	6,609	183.93	3,618	8,418
183.42	3,344	6,643	183.94	3,624	8,454
183.43	3,349	6,676	183.95	3,629	8,491
183.44	3,355	6,710	183.96	3,634	8,527
183.45	3,360	6,743	183.97	3,640	8,563
183.46	3,365	6,777	183.98	3,645	8,600
183.47	3,371	6,811	183.99	3,651	8,636
183.48	3,376	6,844	184.00	3,656	8,673
183.49	3,382	6,878	184.01	3,662	8,709
183.50	3,387	6,912	184.02	3,667	8,746
183.51	3,392	6,946	184.03	3,673	8,783
183.52	3,398	6,980	184.04	3,679	8,820
183.53	3,403	7,014	184.05	3,685	8,856
183.54	3,409	7,048	184.06	3,690	8,893
183.55	3,414	7,082	184.07	3,696	8,930

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.08	3,702	8,967	184.60	3,999	10,969
184.09	3,707	9,004	184.61	4,004	11,009
184.10	3,713	9,041	184.62	4,010	11,049
184.11	3,719	9,078	184.63	4,016	11,089
184.12	3,725	9,116	184.64	4,021	11,130
184.13	3,730	9,153	184.65	4,027	11,170
184.14	3,736	9,190	184.66	4,033	11,210
184.15	3,742	9,228	184.67	4,039	11,251
184.16	3,747	9,265	184.68	4,044	11,291
184.17	3,753	9,303	184.69	4,050	11,331
184.18	3,759	9,340	184.70	4,056	11,372
184.19	3,764	9,378	184.71	4,061	11,413
184.20	3,770	9,415	184.72	4,067	11,453
184.21	3,776	9,453	184.73	4,073	11,494
184.22	3,782	9,491	184.74	4,079	11,535
184.23	3,787	9,529	184.75	4,084	11,575
184.24	3,793	9,567	184.76	4,090	11,616
184.25	3,799	9,605	184.77	4,096	11,657
184.26	3,804	9,643	184.78	4,101	11,698
184.27	3,810	9,681	184.79	4,107	11,739
184.28	3,816	9,719	184.80	4,113	11,780
184.29	3,822	9,757	184.81	4,119	11,822
184.30	3,827	9,795	184.82	4,124	11,863
184.31	3,833	9,834	184.83	4,130	11,904
184.32	3,839	9,872	184.84	4,136	11,945
184.33	3,844	9,910	184.85	4,141	11,987
184.34	3,850	9,949	184.86	4,147	12,028
184.35	3,856	9,987	184.87	4,153	12,070
184.36	3,862	10,026	184.88	4,158	12,111
184.37	3,867	10,065	184.89	4,164	12,153
184.38	3,873	10,103	184.90	4,170	12,194
184.39	3,879	10,142	184.91	4,176	12,236
184.40	3,884	10,181	184.92	4,181	12,278
184.41	3,890	10,220	184.93	4,187	12,320
184.42	3,896	10,259	184.94	4,193	12,362
184.43	3,902	10,298	184.95	4,198	12,404
184.44	3,907	10,337	184.96	4,204	12,446
184.45	3,913	10,376	184.97	4,210	12,488
184.46	3,919	10,415	184.98	4,216	12,530
184.47	3,924	10,454	184.99	4,221	12,572
184.48	3,930	10,493	185.00	4,227	12,614
184.49	3,936	10,533	185.01	4,233	12,657
184.50	3,942	10,572	185.02	4,239	12,699
184.51	3,947	10,612	185.03	4,245	12,741
184.52	3,953	10,651	185.04	4,251	12,784
184.53	3,959	10,691	185.05	4,257	12,826
184.54	3,964	10,730	185.06	4,263	12,869
184.55	3,970	10,770	185.07	4,269	12,912
184.56	3,976	10,810	185.08	4,275	12,954
184.57	3,981	10,850	185.09	4,281	12,997
184.58	3,987	10,889	185.10	4,287	13,040
184.59	3,993	10,929	185.11	4,293	13,083

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.12	4,299	13,126	185.64	4,614	15,443
185.13	4,306	13,169	185.65	4,620	15,489
185.14	4,312	13,212	185.66	4,626	15,536
185.15	4,318	13,255	185.67	4,632	15,582
185.16	4,324	13,298	185.68	4,638	15,628
185.17	4,330	13,342	185.69	4,644	15,675
185.18	4,336	13,385	185.70	4,650	15,721
185.19	4,342	13,428	185.71	4,656	15,768
185.20	4,348	13,472	185.72	4,662	15,814
185.21	4,354	13,515	185.73	4,668	15,861
185.22	4,360	13,559	185.74	4,674	15,908
185.23	4,366	13,603	185.75	4,680	15,954
185.24	4,372	13,646	185.76	4,686	16,001
185.25	4,378	13,690	185.77	4,692	16,048
185.26	4,384	13,734	185.78	4,698	16,095
185.27	4,390	13,778	185.79	4,704	16,142
185.28	4,396	13,822	185.80	4,710	16,189
185.29	4,402	13,866	185.81	4,716	16,236
185.30	4,408	13,910	185.82	4,722	16,284
185.31	4,414	13,954	185.83	4,728	16,331
185.32	4,420	13,998	185.84	4,734	16,378
185.33	4,426	14,042	185.85	4,740	16,425
185.34	4,432	14,086	185.86	4,746	16,473
185.35	4,438	14,131	185.87	4,752	16,520
185.36	4,444	14,175	185.88	4,759	16,568
185.37	4,450	14,220	185.89	4,765	16,616
185.38	4,457	14,264	185.90	4,771	16,663
185.39	4,463	14,309	185.91	4,777	16,711
185.40	4,469	14,353	185.92	4,783	16,759
185.41	4,475	14,398	185.93	4,789	16,807
185.42	4,481	14,443	185.94	4,795	16,855
185.43	4,487	14,488	185.95	4,801	16,903
185.44	4,493	14,533	185.96	4,807	16,951
185.45	4,499	14,578	185.97	4,813	16,999
185.46	4,505	14,623	185.98	4,819	17,047
185.47	4,511	14,668	185.99	4,825	17,095
185.48	4,517	14,713	186.00	4,831	17,143
185.49	4,523	14,758	186.01	4,837	17,192
185.50	4,529	14,803	186.02	4,844	17,240
185.51	4,535	14,849	186.03	4,850	17,289
185.52	4,541	14,894	186.04	4,856	17,337
185.53	4,547	14,939	186.05	4,863	17,386
185.54	4,553	14,985	186.06	4,869	17,434
185.55	4,559	15,031	186.07	4,876	17,483
185.56	4,565	15,076	186.08	4,882	17,532
185.57	4,571	15,122	186.09	4,888	17,581
185.58	4,577	15,168	186.10	4,895	17,630
185.59	4,583	15,213	186.11	4,901	17,679
185.60	4,589	15,259	186.12	4,907	17,728
185.61	4,595	15,305	186.13	4,914	17,777
185.62	4,601	15,351	186.14	4,920	17,826
185.63	4,608	15,397	186.15	4,927	17,875

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.16	4,933	17,924
186.17	4,939	17,974
186.18	4,946	18,023
186.19	4,952	18,073
186.20	4,958	18,122
186.21	4,965	18,172
186.22	4,971	18,222
186.23	4,978	18,271
186.24	4,984	18,321
186.25	4,990	18,371
186.26	4,997	18,421
186.27	5,003	18,471
186.28	5,009	18,521
186.29	5,016	18,571
186.30	5,022	18,621
186.31	5,028	18,672
186.32	5,035	18,722
186.33	5,041	18,772
186.34	5,048	18,823
186.35	5,054	18,873
186.36	5,060	18,924
186.37	5,067	18,974
186.38	5,073	19,025
186.39	5,079	19,076
186.40	5,086	19,127
186.41	5,092	19,178
186.42	5,099	19,229
186.43	5,105	19,280
186.44	5,111	19,331
186.45	5,118	19,382
186.46	5,124	19,433
186.47	5,130	19,484
186.48	5,137	19,536
186.49	5,143	19,587
186.50	5,150	19,638
186.51	5,156	19,690
186.52	5,162	19,742
186.53	5,169	19,793
186.54	5,175	19,845
186.55	5,181	19,897
186.56	5,188	19,949
186.57	5,194	20,000
186.58	5,200	20,052
186.59	5,207	20,104
186.60	5,213	20,157
186.61	5,220	20,209
186.62	5,226	20,261
186.63	5,232	20,313
186.64	5,239	20,366
186.65	5,245	20,418
186.66	5,251	20,471
186.67	5,258	20,523
186.68	5,264	20,576
186.69	5,271	20,628
186.70	5,277	20,681
186.71	5,283	20,734
186.72	5,290	20,787
186.73	5,296	20,840
186.74	5,302	20,893
186.75	5,309	20,946
186.76	5,315	20,999
186.77	5,321	21,052
186.78	5,328	21,105
186.79	5,334	21,159
186.80	5,341	21,212
186.81	5,347	21,265
186.82	5,353	21,319
186.83	5,360	21,372
186.84	5,366	21,426
186.85	5,372	21,480
186.86	5,379	21,534
186.87	5,385	21,587
186.88	5,392	21,641
186.89	5,398	21,695
186.90	5,404	21,749
186.91	5,411	21,803
186.92	5,417	21,857
186.93	5,423	21,912
186.94	5,430	21,966
186.95	5,436	22,020
186.96	5,443	22,075
186.97	5,449	22,129
186.98	5,455	22,184
186.99	5,462	22,238
187.00	**5,468**	**22,293**

Summary for Pond B-43: Basin #43

Inflow Area = 2.712 ac, 33.89% Impervious, Inflow Depth = 6.44" for Current 100 yr event
Inflow = 17.94 cfs @ 12.17 hrs, Volume= 1.455 af
Outflow = 13.84 cfs @ 12.26 hrs, Volume= 1.343 af, Atten= 23%, Lag= 5.2 min
Primary = 13.84 cfs @ 12.26 hrs, Volume= 1.343 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 179.69' @ 12.25 hrs Surf.Area= 6,858 sf Storage= 16,580 cf

Plug-Flow detention time= 174.8 min calculated for 1.341 af (92% of inflow)
Center-of-Mass det. time= 134.1 min (921.1 - 787.0)

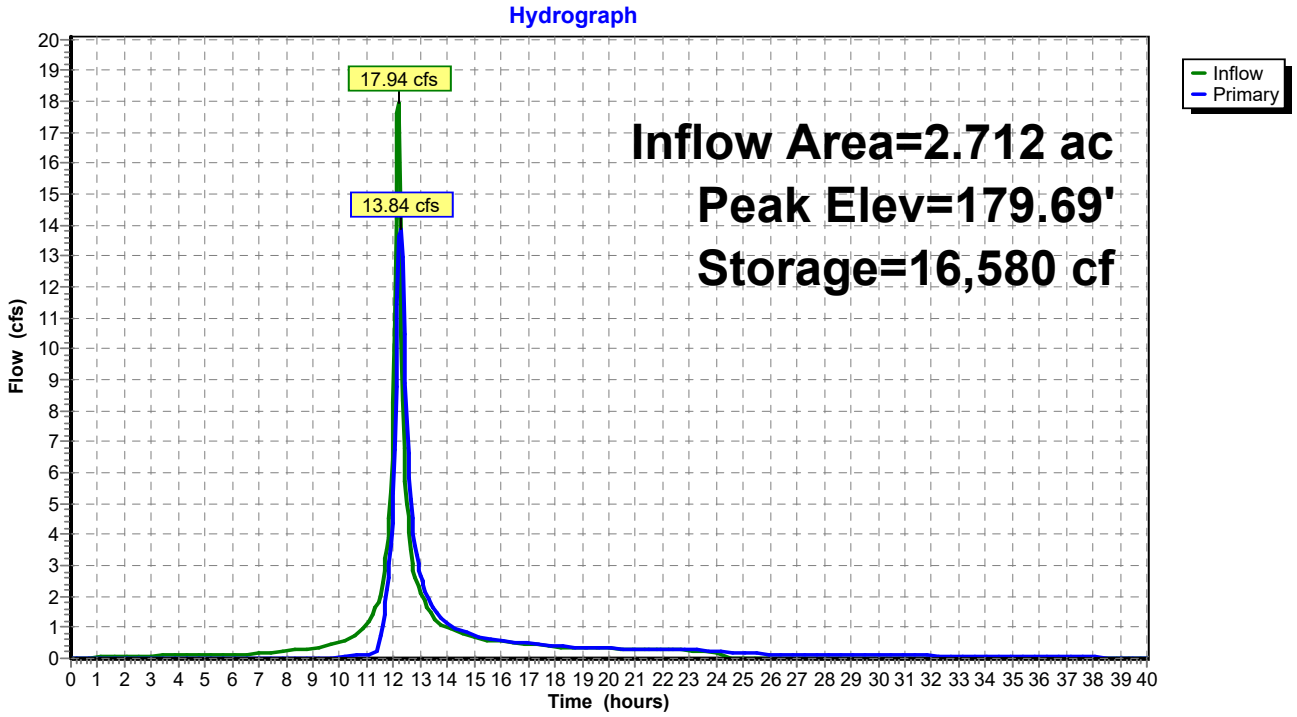
Volume	Invert	Avail.Storage	Storage Description
#1	176.35'	26,392 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
176.35	0	0	0
177.00	4,447	1,445	1,445
178.00	5,292	4,870	6,315
179.00	6,194	5,743	12,058
180.00	7,153	6,674	18,731
181.00	8,168	7,661	26,392

Device	Routing	Invert	Outlet Devices
#1	Primary	176.30'	**18.0" Round Culvert** L= 200.0' Ke= 0.500 Inlet / Outlet Invert= 176.30' / 166.10' S= 0.0510 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	177.62'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	178.58'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	180.00'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=13.81 cfs @ 12.26 hrs HW=179.69' (Free Discharge)
- **1=Culvert** (Inlet Controls 13.81 cfs @ 7.82 fps)
  - **2=Orifice/Grate** (Passes < 0.23 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 14.37 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-43: Basin #43



Stage-Discharge for Pond B-43: Basin #43

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
176.35	0.00	176.87	0.00	177.39	0.00	177.91	0.07
176.36	0.00	176.88	0.00	177.40	0.00	177.92	0.07
176.37	0.00	176.89	0.00	177.41	0.00	177.93	0.07
176.38	0.00	176.90	0.00	177.42	0.00	177.94	0.08
176.39	0.00	176.91	0.00	177.43	0.00	177.95	0.08
176.40	0.00	176.92	0.00	177.44	0.00	177.96	0.08
176.41	0.00	176.93	0.00	177.45	0.00	177.97	0.08
176.42	0.00	176.94	0.00	177.46	0.00	177.98	0.08
176.43	0.00	176.95	0.00	177.47	0.00	177.99	0.08
176.44	0.00	176.96	0.00	177.48	0.00	178.00	0.09
176.45	0.00	176.97	0.00	177.49	0.00	178.01	0.09
176.46	0.00	176.98	0.00	177.50	0.00	178.02	0.09
176.47	0.00	176.99	0.00	177.51	0.00	178.03	0.09
176.48	0.00	177.00	0.00	177.52	0.00	178.04	0.09
176.49	0.00	177.01	0.00	177.53	0.00	178.05	0.09
176.50	0.00	177.02	0.00	177.54	0.00	178.06	0.10
176.51	0.00	177.03	0.00	177.55	0.00	178.07	0.10
176.52	0.00	177.04	0.00	177.56	0.00	178.08	0.10
176.53	0.00	177.05	0.00	177.57	0.00	178.09	0.10
176.54	0.00	177.06	0.00	177.58	0.00	178.10	0.10
176.55	0.00	177.07	0.00	177.59	0.00	178.11	0.10
176.56	0.00	177.08	0.00	177.60	0.00	178.12	0.10
176.57	0.00	177.09	0.00	177.61	0.00	178.13	0.10
176.58	0.00	177.10	0.00	177.62	0.00	178.14	0.11
176.59	0.00	177.11	0.00	177.63	0.00	178.15	0.11
176.60	0.00	177.12	0.00	177.64	0.00	178.16	0.11
176.61	0.00	177.13	0.00	177.65	0.00	178.17	0.11
176.62	0.00	177.14	0.00	177.66	0.00	178.18	0.11
176.63	0.00	177.15	0.00	177.67	0.00	178.19	0.11
176.64	0.00	177.16	0.00	177.68	0.01	178.20	0.11
176.65	0.00	177.17	0.00	177.69	0.01	178.21	0.11
176.66	0.00	177.18	0.00	177.70	0.01	178.22	0.12
176.67	0.00	177.19	0.00	177.71	0.01	178.23	0.12
176.68	0.00	177.20	0.00	177.72	0.02	178.24	0.12
176.69	0.00	177.21	0.00	177.73	0.02	178.25	0.12
176.70	0.00	177.22	0.00	177.74	0.02	178.26	0.12
176.71	0.00	177.23	0.00	177.75	0.03	178.27	0.12
176.72	0.00	177.24	0.00	177.76	0.03	178.28	0.12
176.73	0.00	177.25	0.00	177.77	0.03	178.29	0.12
176.74	0.00	177.26	0.00	177.78	0.04	178.30	0.12
176.75	0.00	177.27	0.00	177.79	0.04	178.31	0.13
176.76	0.00	177.28	0.00	177.80	0.05	178.32	0.13
176.77	0.00	177.29	0.00	177.81	0.05	178.33	0.13
176.78	0.00	177.30	0.00	177.82	0.05	178.34	0.13
176.79	0.00	177.31	0.00	177.83	0.05	178.35	0.13
176.80	0.00	177.32	0.00	177.84	0.06	178.36	0.13
176.81	0.00	177.33	0.00	177.85	0.06	178.37	0.13
176.82	0.00	177.34	0.00	177.86	0.06	178.38	0.13
176.83	0.00	177.35	0.00	177.87	0.06	178.39	0.13
176.84	0.00	177.36	0.00	177.88	0.06	178.40	0.13
176.85	0.00	177.37	0.00	177.89	0.07	178.41	0.14
176.86	0.00	177.38	0.00	177.90	0.07	178.42	0.14

Stage-Discharge for Pond B-43: Basin #43 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
178.43	0.14	178.95	3.07	179.47	10.71	179.99	14.59
178.44	0.14	178.96	3.19	179.48	10.88	180.00	14.61
178.45	0.14	178.97	3.31	179.49	11.06	180.01	14.76
178.46	0.14	178.98	3.43	179.50	11.23	180.02	14.99
178.47	0.14	178.99	3.55	179.51	11.40	180.03	15.30
178.48	0.14	179.00	3.67	179.52	11.58	180.04	15.65
178.49	0.14	179.01	3.79	179.53	11.76	180.05	16.05
178.50	0.14	179.02	3.92	179.54	11.93	180.06	16.49
178.51	0.15	179.03	4.05	179.55	12.11	180.07	16.96
178.52	0.15	179.04	4.18	179.56	12.29	180.08	17.47
178.53	0.15	179.05	4.30	179.57	12.47	180.09	18.01
178.54	0.15	179.06	4.44	179.58	12.65	180.10	18.58
178.55	0.15	179.07	4.57	179.59	12.83	180.11	19.18
178.56	0.15	179.08	4.70	179.60	13.01	180.12	19.80
178.57	0.15	179.09	4.83	179.61	13.19	180.13	20.45
178.58	0.15	179.10	4.97	179.62	13.38	180.14	21.13
178.59	0.17	179.11	5.11	179.63	13.56	180.15	21.83
178.60	0.19	179.12	5.24	179.64	13.69	180.16	22.55
178.61	0.22	179.13	5.38	179.65	13.72	180.17	23.30
178.62	0.26	179.14	5.52	179.66	13.75	180.18	24.07
178.63	0.30	179.15	5.66	179.67	13.77	180.19	24.86
178.64	0.35	179.16	5.81	179.68	13.80	180.20	25.67
178.65	0.40	179.17	5.95	179.69	13.83	180.21	26.54
178.66	0.45	179.18	6.09	179.70	13.85	180.22	27.43
178.67	0.51	179.19	6.24	179.71	13.88	180.23	28.36
178.68	0.57	179.20	6.39	179.72	13.90	180.24	29.30
178.69	0.64	179.21	6.53	179.73	13.93	180.25	30.27
178.70	0.70	179.22	6.68	179.74	13.96	180.26	31.27
178.71	0.77	179.23	6.83	179.75	13.98	180.27	32.29
178.72	0.84	179.24	6.98	179.76	14.01	180.28	33.34
178.73	0.92	179.25	7.14	179.77	14.03	180.29	34.41
178.74	1.00	179.26	7.29	179.78	14.06	180.30	35.51
178.75	1.08	179.27	7.44	179.79	14.08	180.31	36.63
178.76	1.16	179.28	7.60	179.80	14.11	180.32	37.77
178.77	1.24	179.29	7.75	179.81	14.14	180.33	38.94
178.78	1.33	179.30	7.91	179.82	14.16	180.34	40.14
178.79	1.41	179.31	8.07	179.83	14.19	180.35	41.35
178.80	1.51	179.32	8.23	179.84	14.21	180.36	42.60
178.81	1.60	179.33	8.39	179.85	14.24	180.37	43.86
178.82	1.69	179.34	8.55	179.86	14.26	180.38	45.15
178.83	1.79	179.35	8.71	179.87	14.29	180.39	46.47
178.84	1.88	179.36	8.87	179.88	14.31	180.40	47.80
178.85	1.98	179.37	9.03	179.89	14.34	180.41	49.19
178.86	2.09	179.38	9.20	179.90	14.36	180.42	50.61
178.87	2.19	179.39	9.36	179.91	14.39	180.43	52.05
178.88	2.29	179.40	9.53	179.92	14.41	180.44	53.52
178.89	2.40	179.41	9.69	179.93	14.44	180.45	55.01
178.90	2.51	179.42	9.86	179.94	14.46	180.46	56.53
178.91	2.62	179.43	10.03	179.95	14.49	180.47	58.07
178.92	2.73	179.44	10.20	179.96	14.51	180.48	59.65
178.93	2.84	179.45	10.37	179.97	14.54	180.49	61.24
178.94	2.96	179.46	10.54	179.98	14.56	180.50	62.87

Stage-Discharge for Pond B-43: Basin #43 (continued)

Elevation (feet)	Primary (cfs)
180.51	64.52
180.52	66.20
180.53	67.90
180.54	69.63
180.55	71.39
180.56	73.18
180.57	74.99
180.58	76.82
180.59	78.69
180.60	80.58
180.61	82.23
180.62	83.89
180.63	85.57
180.64	87.26
180.65	88.96
180.66	90.68
180.67	92.41
180.68	94.15
180.69	95.91
180.70	97.67
180.71	99.46
180.72	101.25
180.73	103.05
180.74	104.87
180.75	106.70
180.76	108.55
180.77	110.40
180.78	112.27
180.79	114.15
180.80	116.04
180.81	117.98
180.82	119.94
180.83	121.91
180.84	123.89
180.85	125.88
180.86	127.89
180.87	129.91
180.88	131.94
180.89	133.99
180.90	136.05
180.91	138.12
180.92	140.21
180.93	142.30
180.94	144.41
180.95	146.54
180.96	148.67
180.97	150.82
180.98	152.98
180.99	155.16
181.00	**157.34**

Stage-Area-Storage for Pond B-43: Basin #43

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
176.35	0	0	176.87	3,558	925
176.36	68	0	176.88	3,626	961
176.37	137	1	176.89	3,694	997
176.38	205	3	176.90	3,763	1,035
176.39	274	5	176.91	3,831	1,073
176.40	342	9	176.92	3,900	1,111
176.41	410	12	176.93	3,968	1,151
176.42	479	17	176.94	4,037	1,191
176.43	547	22	176.95	4,105	1,231
176.44	616	28	176.96	4,173	1,273
176.45	684	34	176.97	4,242	1,315
176.46	753	41	176.98	4,310	1,358
176.47	821	49	176.99	4,379	1,401
176.48	889	58	177.00	4,447	1,445
176.49	958	67	177.01	4,455	1,490
176.50	1,026	77	177.02	4,464	1,534
176.51	1,095	88	177.03	4,472	1,579
176.52	1,163	99	177.04	4,481	1,624
176.53	1,231	111	177.05	4,489	1,669
176.54	1,300	123	177.06	4,498	1,714
176.55	1,368	137	177.07	4,506	1,759
176.56	1,437	151	177.08	4,515	1,804
176.57	1,505	166	177.09	4,523	1,849
176.58	1,574	181	177.10	4,531	1,894
176.59	1,642	197	177.11	4,540	1,940
176.60	1,710	214	177.12	4,548	1,985
176.61	1,779	231	177.13	4,557	2,031
176.62	1,847	249	177.14	4,565	2,076
176.63	1,916	268	177.15	4,574	2,122
176.64	1,984	288	177.16	4,582	2,168
176.65	2,052	308	177.17	4,591	2,213
176.66	2,121	329	177.18	4,599	2,259
176.67	2,189	350	177.19	4,608	2,305
176.68	2,258	373	177.20	4,616	2,352
176.69	2,326	395	177.21	4,624	2,398
176.70	2,395	419	177.22	4,633	2,444
176.71	2,463	443	177.23	4,641	2,490
176.72	2,531	468	177.24	4,650	2,537
176.73	2,600	494	177.25	4,658	2,583
176.74	2,668	520	177.26	4,667	2,630
176.75	2,737	547	177.27	4,675	2,677
176.76	2,805	575	177.28	4,684	2,724
176.77	2,873	603	177.29	4,692	2,770
176.78	2,942	633	177.30	4,700	2,817
176.79	3,010	662	177.31	4,709	2,864
176.80	3,079	693	177.32	4,717	2,912
176.81	3,147	724	177.33	4,726	2,959
176.82	3,216	756	177.34	4,734	3,006
176.83	3,284	788	177.35	4,743	3,053
176.84	3,352	821	177.36	4,751	3,101
176.85	3,421	855	177.37	4,760	3,149
176.86	3,489	890	177.38	4,768	3,196

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
177.39	4,777	3,244	177.91	5,216	5,842
177.40	4,785	3,292	177.92	5,224	5,894
177.41	4,793	3,340	177.93	5,233	5,946
177.42	4,802	3,388	177.94	5,241	5,999
177.43	4,810	3,436	177.95	5,250	6,051
177.44	4,819	3,484	177.96	5,258	6,104
177.45	4,827	3,532	177.97	5,267	6,156
177.46	4,836	3,580	177.98	5,275	6,209
177.47	4,844	3,629	177.99	5,284	6,262
177.48	4,853	3,677	178.00	5,292	6,315
177.49	4,861	3,726	178.01	5,301	6,368
177.50	4,870	3,774	178.02	5,310	6,421
177.51	4,878	3,823	178.03	5,319	6,474
177.52	4,886	3,872	178.04	5,328	6,527
177.53	4,895	3,921	178.05	5,337	6,581
177.54	4,903	3,970	178.06	5,346	6,634
177.55	4,912	4,019	178.07	5,355	6,687
177.56	4,920	4,068	178.08	5,364	6,741
177.57	4,929	4,117	178.09	5,373	6,795
177.58	4,937	4,167	178.10	5,382	6,848
177.59	4,946	4,216	178.11	5,391	6,902
177.60	4,954	4,266	178.12	5,400	6,956
177.61	4,962	4,315	178.13	5,409	7,010
177.62	4,971	4,365	178.14	5,418	7,064
177.63	4,979	4,415	178.15	5,427	7,119
177.64	4,988	4,464	178.16	5,436	7,173
177.65	4,996	4,514	178.17	5,445	7,227
177.66	5,005	4,564	178.18	5,454	7,282
177.67	5,013	4,614	178.19	5,463	7,337
177.68	5,022	4,665	178.20	5,472	7,391
177.69	5,030	4,715	178.21	5,481	7,446
177.70	5,038	4,765	178.22	5,490	7,501
177.71	5,047	4,816	178.23	5,499	7,556
177.72	5,055	4,866	178.24	5,508	7,611
177.73	5,064	4,917	178.25	5,518	7,666
177.74	5,072	4,967	178.26	5,527	7,721
177.75	5,081	5,018	178.27	5,536	7,776
177.76	5,089	5,069	178.28	5,545	7,832
177.77	5,098	5,120	178.29	5,554	7,887
177.78	5,106	5,171	178.30	5,563	7,943
177.79	5,115	5,222	178.31	5,572	7,999
177.80	5,123	5,273	178.32	5,581	8,054
177.81	5,131	5,325	178.33	5,590	8,110
177.82	5,140	5,376	178.34	5,599	8,166
177.83	5,148	5,427	178.35	5,608	8,222
177.84	5,157	5,479	178.36	5,617	8,278
177.85	5,165	5,530	178.37	5,626	8,335
177.86	5,174	5,582	178.38	5,635	8,391
177.87	5,182	5,634	178.39	5,644	8,447
177.88	5,191	5,686	178.40	5,653	8,504
177.89	5,199	5,738	178.41	5,662	8,560
177.90	5,208	5,790	178.42	5,671	8,617

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.43	5,680	8,674	178.95	6,149	11,749
178.44	5,689	8,731	178.96	6,158	11,811
178.45	5,698	8,788	178.97	6,167	11,872
178.46	5,707	8,845	178.98	6,176	11,934
178.47	5,716	8,902	178.99	6,185	11,996
178.48	5,725	8,959	179.00	6,194	12,058
178.49	5,734	9,016	179.01	6,204	12,120
178.50	5,743	9,074	179.02	6,213	12,182
178.51	5,752	9,131	179.03	6,223	12,244
178.52	5,761	9,189	179.04	6,232	12,306
178.53	5,770	9,246	179.05	6,242	12,369
178.54	5,779	9,304	179.06	6,252	12,431
178.55	5,788	9,362	179.07	6,261	12,494
178.56	5,797	9,420	179.08	6,271	12,556
178.57	5,806	9,478	179.09	6,280	12,619
178.58	5,815	9,536	179.10	6,290	12,682
178.59	5,824	9,594	179.11	6,299	12,745
178.60	5,833	9,652	179.12	6,309	12,808
178.61	5,842	9,711	179.13	6,319	12,871
178.62	5,851	9,769	179.14	6,328	12,934
178.63	5,860	9,828	179.15	6,338	12,998
178.64	5,869	9,886	179.16	6,347	13,061
178.65	5,878	9,945	179.17	6,357	13,125
178.66	5,887	10,004	179.18	6,367	13,188
178.67	5,896	10,063	179.19	6,376	13,252
178.68	5,905	10,122	179.20	6,386	13,316
178.69	5,914	10,181	179.21	6,395	13,380
178.70	5,923	10,240	179.22	6,405	13,444
178.71	5,932	10,299	179.23	6,415	13,508
178.72	5,941	10,359	179.24	6,424	13,572
178.73	5,950	10,418	179.25	6,434	13,636
178.74	5,959	10,478	179.26	6,443	13,701
178.75	5,969	10,537	179.27	6,453	13,765
178.76	5,978	10,597	179.28	6,463	13,830
178.77	5,987	10,657	179.29	6,472	13,894
178.78	5,996	10,717	179.30	6,482	13,959
178.79	6,005	10,777	179.31	6,491	14,024
178.80	6,014	10,837	179.32	6,501	14,089
178.81	6,023	10,897	179.33	6,510	14,154
178.82	6,032	10,957	179.34	6,520	14,219
178.83	6,041	11,018	179.35	6,530	14,284
178.84	6,050	11,078	179.36	6,539	14,350
178.85	6,059	11,139	179.37	6,549	14,415
178.86	6,068	11,199	179.38	6,558	14,481
178.87	6,077	11,260	179.39	6,568	14,546
178.88	6,086	11,321	179.40	6,578	14,612
178.89	6,095	11,382	179.41	6,587	14,678
178.90	6,104	11,443	179.42	6,597	14,744
178.91	6,113	11,504	179.43	6,606	14,810
178.92	6,122	11,565	179.44	6,616	14,876
178.93	6,131	11,626	179.45	6,626	14,942
178.94	6,140	11,688	179.46	6,635	15,008

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.47	6,645	15,075	179.99	7,143	18,660
179.48	6,654	15,141	180.00	7,153	18,731
179.49	6,664	15,208	180.01	7,163	18,803
179.50	6,674	15,275	180.02	7,173	18,875
179.51	6,683	15,341	180.03	7,183	18,946
179.52	6,693	15,408	180.04	7,194	19,018
179.53	6,702	15,475	180.05	7,204	19,090
179.54	6,712	15,542	180.06	7,214	19,162
179.55	6,721	15,610	180.07	7,224	19,234
179.56	6,731	15,677	180.08	7,234	19,307
179.57	6,741	15,744	180.09	7,244	19,379
179.58	6,750	15,812	180.10	7,254	19,452
179.59	6,760	15,879	180.11	7,265	19,524
179.60	6,769	15,947	180.12	7,275	19,597
179.61	6,779	16,015	180.13	7,285	19,670
179.62	6,789	16,082	180.14	7,295	19,743
179.63	6,798	16,150	180.15	7,305	19,816
179.64	6,808	16,218	180.16	7,315	19,889
179.65	6,817	16,286	180.17	7,326	19,962
179.66	6,827	16,355	180.18	7,336	20,035
179.67	6,837	16,423	180.19	7,346	20,109
179.68	6,846	16,491	180.20	7,356	20,182
179.69	6,856	16,560	180.21	7,366	20,256
179.70	6,865	16,629	180.22	7,376	20,329
179.71	6,875	16,697	180.23	7,386	20,403
179.72	6,884	16,766	180.24	7,397	20,477
179.73	6,894	16,835	180.25	7,407	20,551
179.74	6,904	16,904	180.26	7,417	20,625
179.75	6,913	16,973	180.27	7,427	20,700
179.76	6,923	17,042	180.28	7,437	20,774
179.77	6,932	17,111	180.29	7,447	20,848
179.78	6,942	17,181	180.30	7,457	20,923
179.79	6,952	17,250	180.31	7,468	20,997
179.80	6,961	17,320	180.32	7,478	21,072
179.81	6,971	17,390	180.33	7,488	21,147
179.82	6,980	17,459	180.34	7,498	21,222
179.83	6,990	17,529	180.35	7,508	21,297
179.84	7,000	17,599	180.36	7,518	21,372
179.85	7,009	17,669	180.37	7,529	21,447
179.86	7,019	17,739	180.38	7,539	21,523
179.87	7,028	17,809	180.39	7,549	21,598
179.88	7,038	17,880	180.40	7,559	21,674
179.89	7,048	17,950	180.41	7,569	21,749
179.90	7,057	18,021	180.42	7,579	21,825
179.91	7,067	18,091	180.43	7,589	21,901
179.92	7,076	18,162	180.44	7,600	21,977
179.93	7,086	18,233	180.45	7,610	22,053
179.94	7,095	18,304	180.46	7,620	22,129
179.95	7,105	18,375	180.47	7,630	22,205
179.96	7,115	18,446	180.48	7,640	22,282
179.97	7,124	18,517	180.49	7,650	22,358
179.98	7,134	18,588	180.50	7,661	22,435

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.51	7,671	22,511
180.52	7,681	22,588
180.53	7,691	22,665
180.54	7,701	22,742
180.55	7,711	22,819
180.56	7,721	22,896
180.57	7,732	22,973
180.58	7,742	23,051
180.59	7,752	23,128
180.60	7,762	23,206
180.61	7,772	23,283
180.62	7,782	23,361
180.63	7,792	23,439
180.64	7,803	23,517
180.65	7,813	23,595
180.66	7,823	23,673
180.67	7,833	23,752
180.68	7,843	23,830
180.69	7,853	23,908
180.70	7,863	23,987
180.71	7,874	24,066
180.72	7,884	24,145
180.73	7,894	24,223
180.74	7,904	24,302
180.75	7,914	24,381
180.76	7,924	24,461
180.77	7,935	24,540
180.78	7,945	24,619
180.79	7,955	24,699
180.80	7,965	24,778
180.81	7,975	24,858
180.82	7,985	24,938
180.83	7,995	25,018
180.84	8,006	25,098
180.85	8,016	25,178
180.86	8,026	25,258
180.87	8,036	25,339
180.88	8,046	25,419
180.89	8,056	25,499
180.90	8,067	25,580
180.91	8,077	25,661
180.92	8,087	25,742
180.93	8,097	25,823
180.94	8,107	25,904
180.95	8,117	25,985
180.96	8,127	26,066
180.97	8,138	26,147
180.98	8,148	26,229
180.99	8,158	26,310
181.00	**8,168**	**26,392**

Summary for Pond B-44: Basin #44

Inflow Area = 1.184 ac, 34.71% Impervious, Inflow Depth = 6.46" for Current 100 yr event
Inflow = 7.85 cfs @ 12.17 hrs, Volume= 0.637 af
Outflow = 2.91 cfs @ 12.41 hrs, Volume= 0.516 af, Atten= 63%, Lag= 14.5 min
Primary = 2.91 cfs @ 12.41 hrs, Volume= 0.516 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 167.86' @ 12.41 hrs Surf.Area= 7,278 sf Storage= 13,995 cf

Plug-Flow detention time= 430.5 min calculated for 0.516 af (81% of inflow)
Center-of-Mass det. time= 351.3 min (1,137.6 - 786.3)

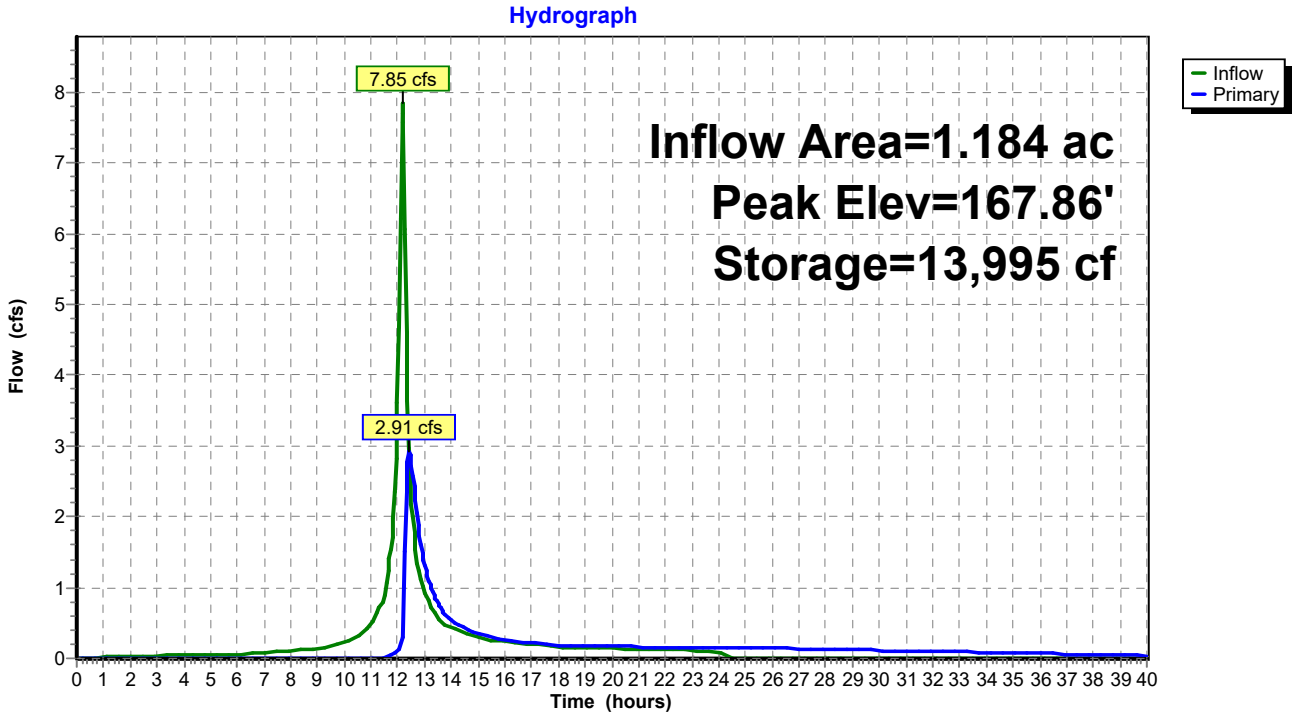
Volume	Invert	Avail.Storage	Storage Description
#1	165.30'	31,812 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
165.30	0	0	0
166.00	5,690	1,991	1,991
167.00	6,518	6,104	8,095
168.00	7,407	6,963	15,058
169.00	8,360	7,884	22,941
170.00	9,381	8,871	31,812

Device	Routing	Invert	Outlet Devices
#1	Primary	165.30'	**18.0" Round Culvert** L= 44.0' Ke= 0.500 Inlet / Outlet Invert= 165.30' / 164.00' S= 0.0295 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	166.41'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	167.50'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	168.98'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.89 cfs @ 12.41 hrs HW=167.85' (Free Discharge)
- **1=Culvert** (Passes 2.89 cfs of 11.43 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.19 cfs @ 5.57 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 2.70 cfs @ 1.94 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-44: Basin #44



Stage-Discharge for Pond B-44: Basin #44

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
165.30	0.00	165.82	0.00	166.34	0.00	166.86	0.10
165.31	0.00	165.83	0.00	166.35	0.00	166.87	0.10
165.32	0.00	165.84	0.00	166.36	0.00	166.88	0.10
165.33	0.00	165.85	0.00	166.37	0.00	166.89	0.10
165.34	0.00	165.86	0.00	166.38	0.00	166.90	0.10
165.35	0.00	165.87	0.00	166.39	0.00	166.91	0.10
165.36	0.00	165.88	0.00	166.40	0.00	166.92	0.10
165.37	0.00	165.89	0.00	166.41	0.00	166.93	0.11
165.38	0.00	165.90	0.00	166.42	0.00	166.94	0.11
165.39	0.00	165.91	0.00	166.43	0.00	166.95	0.11
165.40	0.00	165.92	0.00	166.44	0.00	166.96	0.11
165.41	0.00	165.93	0.00	166.45	0.00	166.97	0.11
165.42	0.00	165.94	0.00	166.46	0.00	166.98	0.11
165.43	0.00	165.95	0.00	166.47	0.01	166.99	0.11
165.44	0.00	165.96	0.00	166.48	0.01	167.00	0.11
165.45	0.00	165.97	0.00	166.49	0.01	167.01	0.12
165.46	0.00	165.98	0.00	166.50	0.01	167.02	0.12
165.47	0.00	165.99	0.00	166.51	0.02	167.03	0.12
165.48	0.00	166.00	0.00	166.52	0.02	167.04	0.12
165.49	0.00	166.01	0.00	166.53	0.02	167.05	0.12
165.50	0.00	166.02	0.00	166.54	0.03	167.06	0.12
165.51	0.00	166.03	0.00	166.55	0.03	167.07	0.12
165.52	0.00	166.04	0.00	166.56	0.03	167.08	0.12
165.53	0.00	166.05	0.00	166.57	0.04	167.09	0.12
165.54	0.00	166.06	0.00	166.58	0.04	167.10	0.13
165.55	0.00	166.07	0.00	166.59	0.05	167.11	0.13
165.56	0.00	166.08	0.00	166.60	0.05	167.12	0.13
165.57	0.00	166.09	0.00	166.61	0.05	167.13	0.13
165.58	0.00	166.10	0.00	166.62	0.05	167.14	0.13
165.59	0.00	166.11	0.00	166.63	0.06	167.15	0.13
165.60	0.00	166.12	0.00	166.64	0.06	167.16	0.13
165.61	0.00	166.13	0.00	166.65	0.06	167.17	0.13
165.62	0.00	166.14	0.00	166.66	0.06	167.18	0.13
165.63	0.00	166.15	0.00	166.67	0.06	167.19	0.13
165.64	0.00	166.16	0.00	166.68	0.07	167.20	0.14
165.65	0.00	166.17	0.00	166.69	0.07	167.21	0.14
165.66	0.00	166.18	0.00	166.70	0.07	167.22	0.14
165.67	0.00	166.19	0.00	166.71	0.07	167.23	0.14
165.68	0.00	166.20	0.00	166.72	0.07	167.24	0.14
165.69	0.00	166.21	0.00	166.73	0.08	167.25	0.14
165.70	0.00	166.22	0.00	166.74	0.08	167.26	0.14
165.71	0.00	166.23	0.00	166.75	0.08	167.27	0.14
165.72	0.00	166.24	0.00	166.76	0.08	167.28	0.14
165.73	0.00	166.25	0.00	166.77	0.08	167.29	0.14
165.74	0.00	166.26	0.00	166.78	0.08	167.30	0.15
165.75	0.00	166.27	0.00	166.79	0.09	167.31	0.15
165.76	0.00	166.28	0.00	166.80	0.09	167.32	0.15
165.77	0.00	166.29	0.00	166.81	0.09	167.33	0.15
165.78	0.00	166.30	0.00	166.82	0.09	167.34	0.15
165.79	0.00	166.31	0.00	166.83	0.09	167.35	0.15
165.80	0.00	166.32	0.00	166.84	0.09	167.36	0.15
165.81	0.00	166.33	0.00	166.85	0.10	167.37	0.15

Stage-Discharge for Pond B-44: Basin #44 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
167.38	0.15	167.90	3.44	168.42	11.24	168.94	14.46
167.39	0.15	167.91	3.56	168.43	11.41	168.95	14.49
167.40	0.15	167.92	3.68	168.44	11.59	168.96	14.51
167.41	0.16	167.93	3.80	168.45	11.76	168.97	14.54
167.42	0.16	167.94	3.93	168.46	11.94	168.98	14.56
167.43	0.16	167.95	4.06	168.47	12.12	168.99	14.71
167.44	0.16	167.96	4.18	168.48	12.30	169.00	14.95
167.45	0.16	167.97	4.31	168.49	12.48	169.01	15.25
167.46	0.16	167.98	4.44	168.50	12.66	169.02	15.60
167.47	0.16	167.99	4.58	168.51	12.84	169.03	16.00
167.48	0.16	168.00	4.71	168.52	13.02	169.04	16.44
167.49	0.16	168.01	4.84	168.53	13.20	169.05	16.91
167.50	0.16	168.02	4.98	168.54	13.38	169.06	17.42
167.51	0.18	168.03	5.12	168.55	13.45	169.07	17.96
167.52	0.20	168.04	5.25	168.56	13.48	169.08	18.53
167.53	0.23	168.05	5.39	168.57	13.51	169.09	19.13
167.54	0.27	168.06	5.53	168.58	13.53	169.10	19.75
167.55	0.31	168.07	5.67	168.59	13.56	169.11	20.40
167.56	0.36	168.08	5.82	168.60	13.59	169.12	21.08
167.57	0.41	168.09	5.96	168.61	13.61	169.13	21.78
167.58	0.46	168.10	6.10	168.62	13.64	169.14	22.50
167.59	0.52	168.11	6.25	168.63	13.67	169.15	23.25
167.60	0.58	168.12	6.40	168.64	13.69	169.16	24.02
167.61	0.65	168.13	6.54	168.65	13.72	169.17	24.81
167.62	0.71	168.14	6.69	168.66	13.75	169.18	25.62
167.63	0.78	168.15	6.84	168.67	13.77	169.19	26.49
167.64	0.85	168.16	6.99	168.68	13.80	169.20	27.39
167.65	0.93	168.17	7.14	168.69	13.83	169.21	28.31
167.66	1.01	168.18	7.30	168.70	13.85	169.22	29.25
167.67	1.09	168.19	7.45	168.71	13.88	169.23	30.23
167.68	1.17	168.20	7.61	168.72	13.90	169.24	31.22
167.69	1.25	168.21	7.76	168.73	13.93	169.25	32.25
167.70	1.34	168.22	7.92	168.74	13.96	169.26	33.29
167.71	1.43	168.23	8.08	168.75	13.98	169.27	34.36
167.72	1.52	168.24	8.23	168.76	14.01	169.28	35.46
167.73	1.61	168.25	8.39	168.77	14.03	169.29	36.58
167.74	1.70	168.26	8.55	168.78	14.06	169.30	37.73
167.75	1.80	168.27	8.72	168.79	14.08	169.31	38.90
167.76	1.89	168.28	8.88	168.80	14.11	169.32	40.09
167.77	1.99	168.29	9.04	168.81	14.14	169.33	41.31
167.78	2.10	168.30	9.20	168.82	14.16	169.34	42.55
167.79	2.20	168.31	9.37	168.83	14.19	169.35	43.81
167.80	2.30	168.32	9.53	168.84	14.21	169.36	45.10
167.81	2.41	168.33	9.70	168.85	14.24	169.37	46.42
167.82	2.52	168.34	9.87	168.86	14.26	169.38	47.76
167.83	2.63	168.35	10.04	168.87	14.29	169.39	49.15
167.84	2.74	168.36	10.21	168.88	14.31	169.40	50.56
167.85	2.85	168.37	10.38	168.89	14.34	169.41	52.00
167.86	2.96	168.38	10.55	168.90	14.36	169.42	53.47
167.87	3.08	168.39	10.72	168.91	14.39	169.43	54.96
167.88	3.20	168.40	10.89	168.92	14.41	169.44	56.48
167.89	3.32	168.41	11.06	168.93	14.44	169.45	58.03

Stage-Discharge for Pond B-44: Basin #44 (continued)

Elevation (feet)	Primary (cfs)
169.46	59.60
169.47	61.20
169.48	62.82
169.49	64.47
169.50	66.15
169.51	67.86
169.52	69.59
169.53	71.35
169.54	73.13
169.55	74.94
169.56	76.78
169.57	78.64
169.58	80.54
169.59	82.19
169.60	83.85
169.61	85.52
169.62	87.21
169.63	88.92
169.64	90.63
169.65	92.36
169.66	94.11
169.67	95.86
169.68	97.63
169.69	99.41
169.70	101.20
169.71	103.01
169.72	104.83
169.73	106.66
169.74	108.50
169.75	110.36
169.76	112.23
169.77	114.11
169.78	116.00
169.79	117.94
169.80	119.89
169.81	121.86
169.82	123.84
169.83	125.84
169.84	127.85
169.85	129.87
169.86	131.90
169.87	133.95
169.88	136.01
169.89	138.08
169.90	140.16
169.91	142.26
169.92	144.37
169.93	146.49
169.94	148.63
169.95	150.78
169.96	152.94
169.97	155.11
169.98	157.30
169.99	159.45
170.00	**161.60**

Stage-Area-Storage for Pond B-44: Basin #44

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
165.30	0	0
165.31	81	0
165.32	163	2
165.33	244	4
165.34	325	7
165.35	406	10
165.36	488	15
165.37	569	20
165.38	650	26
165.39	732	33
165.40	813	41
165.41	894	49
165.42	975	59
165.43	1,057	69
165.44	1,138	80
165.45	1,219	91
165.46	1,301	104
165.47	1,382	117
165.48	1,463	132
165.49	1,544	147
165.50	1,626	163
165.51	1,707	179
165.52	1,788	197
165.53	1,870	215
165.54	1,951	234
165.55	2,032	254
165.56	2,113	275
165.57	2,195	296
165.58	2,276	319
165.59	2,357	342
165.60	2,439	366
165.61	2,520	391
165.62	2,601	416
165.63	2,682	443
165.64	2,764	470
165.65	2,845	498
165.66	2,926	527
165.67	3,008	556
165.68	3,089	587
165.69	3,170	618
165.70	3,251	650
165.71	3,333	683
165.72	3,414	717
165.73	3,495	751
165.74	3,577	787
165.75	3,658	823
165.76	3,739	860
165.77	3,820	898
165.78	3,902	936
165.79	3,983	976
165.80	4,064	1,016
165.81	4,146	1,057
165.82	4,227	1,099
165.83	4,308	1,142
165.84	4,389	1,185
165.85	4,471	1,229
165.86	4,552	1,275
165.87	4,633	1,320
165.88	4,715	1,367
165.89	4,796	1,415
165.90	4,877	1,463
165.91	4,958	1,512
165.92	5,040	1,562
165.93	5,121	1,613
165.94	5,202	1,665
165.95	5,284	1,717
165.96	5,365	1,770
165.97	5,446	1,824
165.98	5,527	1,879
165.99	5,609	1,935
166.00	5,690	1,991
166.01	5,698	2,048
166.02	5,707	2,105
166.03	5,715	2,163
166.04	5,723	2,220
166.05	5,731	2,277
166.06	5,740	2,334
166.07	5,748	2,392
166.08	5,756	2,449
166.09	5,765	2,507
166.10	5,773	2,565
166.11	5,781	2,622
166.12	5,789	2,680
166.13	5,798	2,738
166.14	5,806	2,796
166.15	5,814	2,854
166.16	5,822	2,912
166.17	5,831	2,971
166.18	5,839	3,029
166.19	5,847	3,088
166.20	5,856	3,146
166.21	5,864	3,205
166.22	5,872	3,263
166.23	5,880	3,322
166.24	5,889	3,381
166.25	5,897	3,440
166.26	5,905	3,499
166.27	5,914	3,558
166.28	5,922	3,617
166.29	5,930	3,676
166.30	5,938	3,736
166.31	5,947	3,795
166.32	5,955	3,855
166.33	5,963	3,914

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
166.34	5,972	3,974	166.86	6,402	7,191
166.35	5,980	4,034	166.87	6,410	7,255
166.36	5,988	4,094	166.88	6,419	7,319
166.37	5,996	4,153	166.89	6,427	7,384
166.38	6,005	4,213	166.90	6,435	7,448
166.39	6,013	4,274	166.91	6,443	7,512
166.40	6,021	4,334	166.92	6,452	7,577
166.41	6,029	4,394	166.93	6,460	7,641
166.42	6,038	4,454	166.94	6,468	7,706
166.43	6,046	4,515	166.95	6,477	7,771
166.44	6,054	4,575	166.96	6,485	7,835
166.45	6,063	4,636	166.97	6,493	7,900
166.46	6,071	4,697	166.98	6,501	7,965
166.47	6,079	4,757	166.99	6,510	8,030
166.48	6,087	4,818	167.00	6,518	8,095
166.49	6,096	4,879	167.01	6,527	8,161
166.50	6,104	4,940	167.02	6,536	8,226
166.51	6,112	5,001	167.03	6,545	8,291
166.52	6,121	5,062	167.04	6,554	8,357
166.53	6,129	5,123	167.05	6,562	8,423
166.54	6,137	5,185	167.06	6,571	8,488
166.55	6,145	5,246	167.07	6,580	8,554
166.56	6,154	5,308	167.08	6,589	8,620
166.57	6,162	5,369	167.09	6,598	8,686
166.58	6,170	5,431	167.10	6,607	8,752
166.59	6,179	5,493	167.11	6,616	8,818
166.60	6,187	5,555	167.12	6,625	8,884
166.61	6,195	5,616	167.13	6,634	8,950
166.62	6,203	5,678	167.14	6,642	9,017
166.63	6,212	5,741	167.15	6,651	9,083
166.64	6,220	5,803	167.16	6,660	9,150
166.65	6,228	5,865	167.17	6,669	9,216
166.66	6,236	5,927	167.18	6,678	9,283
166.67	6,245	5,990	167.19	6,687	9,350
166.68	6,253	6,052	167.20	6,696	9,417
166.69	6,261	6,115	167.21	6,705	9,484
166.70	6,270	6,177	167.22	6,714	9,551
166.71	6,278	6,240	167.23	6,722	9,618
166.72	6,286	6,303	167.24	6,731	9,685
166.73	6,294	6,366	167.25	6,740	9,753
166.74	6,303	6,429	167.26	6,749	9,820
166.75	6,311	6,492	167.27	6,758	9,888
166.76	6,319	6,555	167.28	6,767	9,955
166.77	6,328	6,618	167.29	6,776	10,023
166.78	6,336	6,682	167.30	6,785	10,091
166.79	6,344	6,745	167.31	6,794	10,159
166.80	6,352	6,808	167.32	6,802	10,227
166.81	6,361	6,872	167.33	6,811	10,295
166.82	6,369	6,936	167.34	6,820	10,363
166.83	6,377	6,999	167.35	6,829	10,431
166.84	6,386	7,063	167.36	6,838	10,500
166.85	6,394	7,127	167.37	6,847	10,568

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
167.38	6,856	10,637	167.90	7,318	14,322
167.39	6,865	10,705	167.91	7,327	14,395
167.40	6,874	10,774	167.92	7,336	14,468
167.41	6,882	10,843	167.93	7,345	14,542
167.42	6,891	10,911	167.94	7,354	14,615
167.43	6,900	10,980	167.95	7,363	14,689
167.44	6,909	11,049	167.96	7,371	14,762
167.45	6,918	11,119	167.97	7,380	14,836
167.46	6,927	11,188	167.98	7,389	14,910
167.47	6,936	11,257	167.99	7,398	14,984
167.48	6,945	11,327	168.00	7,407	15,058
167.49	6,954	11,396	168.01	7,417	15,132
167.50	6,963	11,466	168.02	7,426	15,206
167.51	6,971	11,535	168.03	7,436	15,281
167.52	6,980	11,605	168.04	7,445	15,355
167.53	6,989	11,675	168.05	7,455	15,430
167.54	6,998	11,745	168.06	7,464	15,504
167.55	7,007	11,815	168.07	7,474	15,579
167.56	7,016	11,885	168.08	7,483	15,654
167.57	7,025	11,955	168.09	7,493	15,728
167.58	7,034	12,025	168.10	7,502	15,803
167.59	7,043	12,096	168.11	7,512	15,879
167.60	7,051	12,166	168.12	7,521	15,954
167.61	7,060	12,237	168.13	7,531	16,029
167.62	7,069	12,308	168.14	7,540	16,104
167.63	7,078	12,378	168.15	7,550	16,180
167.64	7,087	12,449	168.16	7,559	16,255
167.65	7,096	12,520	168.17	7,569	16,331
167.66	7,105	12,591	168.18	7,579	16,407
167.67	7,114	12,662	168.19	7,588	16,483
167.68	7,123	12,733	168.20	7,598	16,558
167.69	7,131	12,805	168.21	7,607	16,634
167.70	7,140	12,876	168.22	7,617	16,711
167.71	7,149	12,947	168.23	7,626	16,787
167.72	7,158	13,019	168.24	7,636	16,863
167.73	7,167	13,091	168.25	7,645	16,940
167.74	7,176	13,162	168.26	7,655	17,016
167.75	7,185	13,234	168.27	7,664	17,093
167.76	7,194	13,306	168.28	7,674	17,169
167.77	7,203	13,378	168.29	7,683	17,246
167.78	7,211	13,450	168.30	7,693	17,323
167.79	7,220	13,522	168.31	7,702	17,400
167.80	7,229	13,594	168.32	7,712	17,477
167.81	7,238	13,667	168.33	7,721	17,554
167.82	7,247	13,739	168.34	7,731	17,631
167.83	7,256	13,812	168.35	7,741	17,709
167.84	7,265	13,884	168.36	7,750	17,786
167.85	7,274	13,957	168.37	7,760	17,864
167.86	7,283	14,030	168.38	7,769	17,941
167.87	7,291	14,103	168.39	7,779	18,019
167.88	7,300	14,176	168.40	7,788	18,097
167.89	7,309	14,249	168.41	7,798	18,175

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
168.42	7,807	18,253	168.94	8,303	22,442
168.43	7,817	18,331	168.95	8,312	22,525
168.44	7,826	18,409	168.96	8,322	22,608
168.45	7,836	18,488	168.97	8,331	22,691
168.46	7,845	18,566	168.98	8,341	22,774
168.47	7,855	18,645	168.99	8,350	22,858
168.48	7,864	18,723	169.00	8,360	22,941
168.49	7,874	18,802	169.01	8,370	23,025
168.50	7,884	18,881	169.02	8,380	23,109
168.51	7,893	18,960	169.03	8,391	23,193
168.52	7,903	19,038	169.04	8,401	23,277
168.53	7,912	19,118	169.05	8,411	23,361
168.54	7,922	19,197	169.06	8,421	23,445
168.55	7,931	19,276	169.07	8,431	23,529
168.56	7,941	19,355	169.08	8,442	23,614
168.57	7,950	19,435	169.09	8,452	23,698
168.58	7,960	19,514	169.10	8,462	23,783
168.59	7,969	19,594	169.11	8,472	23,867
168.60	7,979	19,674	169.12	8,483	23,952
168.61	7,988	19,754	169.13	8,493	24,037
168.62	7,998	19,834	169.14	8,503	24,122
168.63	8,007	19,914	169.15	8,513	24,207
168.64	8,017	19,994	169.16	8,523	24,292
168.65	8,026	20,074	169.17	8,534	24,377
168.66	8,036	20,154	169.18	8,544	24,463
168.67	8,046	20,235	169.19	8,554	24,548
168.68	8,055	20,315	169.20	8,564	24,634
168.69	8,065	20,396	169.21	8,574	24,720
168.70	8,074	20,476	169.22	8,585	24,805
168.71	8,084	20,557	169.23	8,595	24,891
168.72	8,093	20,638	169.24	8,605	24,977
168.73	8,103	20,719	169.25	8,615	25,063
168.74	8,112	20,800	169.26	8,625	25,150
168.75	8,122	20,881	169.27	8,636	25,236
168.76	8,131	20,963	169.28	8,646	25,322
168.77	8,141	21,044	169.29	8,656	25,409
168.78	8,150	21,125	169.30	8,666	25,495
168.79	8,160	21,207	169.31	8,677	25,582
168.80	8,169	21,289	169.32	8,687	25,669
168.81	8,179	21,370	169.33	8,697	25,756
168.82	8,188	21,452	169.34	8,707	25,843
168.83	8,198	21,534	169.35	8,717	25,930
168.84	8,208	21,616	169.36	8,728	26,017
168.85	8,217	21,698	169.37	8,738	26,105
168.86	8,227	21,780	169.38	8,748	26,192
168.87	8,236	21,863	169.39	8,758	26,280
168.88	8,246	21,945	169.40	8,768	26,367
168.89	8,255	22,028	169.41	8,779	26,455
168.90	8,265	22,110	169.42	8,789	26,543
168.91	8,274	22,193	169.43	8,799	26,631
168.92	8,284	22,276	169.44	8,809	26,719
168.93	8,293	22,359	169.45	8,819	26,807

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.46	8,830	26,895
169.47	8,840	26,983
169.48	8,850	27,072
169.49	8,860	27,160
169.50	8,871	27,249
169.51	8,881	27,338
169.52	8,891	27,427
169.53	8,901	27,516
169.54	8,911	27,605
169.55	8,922	27,694
169.56	8,932	27,783
169.57	8,942	27,873
169.58	8,952	27,962
169.59	8,962	28,052
169.60	8,973	28,141
169.61	8,983	28,231
169.62	8,993	28,321
169.63	9,003	28,411
169.64	9,013	28,501
169.65	9,024	28,591
169.66	9,034	28,681
169.67	9,044	28,772
169.68	9,054	28,862
169.69	9,064	28,953
169.70	9,075	29,044
169.71	9,085	29,134
169.72	9,095	29,225
169.73	9,105	29,316
169.74	9,116	29,407
169.75	9,126	29,499
169.76	9,136	29,590
169.77	9,146	29,681
169.78	9,156	29,773
169.79	9,167	29,865
169.80	9,177	29,956
169.81	9,187	30,048
169.82	9,197	30,140
169.83	9,207	30,232
169.84	9,218	30,324
169.85	9,228	30,416
169.86	9,238	30,509
169.87	9,248	30,601
169.88	9,258	30,694
169.89	9,269	30,786
169.90	9,279	30,879
169.91	9,289	30,972
169.92	9,299	31,065
169.93	9,310	31,158
169.94	9,320	31,251
169.95	9,330	31,344
169.96	9,340	31,438
169.97	9,350	31,531
169.98	9,361	31,625
169.99	9,371	31,718
170.00	**9,381**	**31,812**

Summary for Pond B-45: Basin #45

Inflow Area = 2.294 ac, 62.82% Impervious, Inflow Depth = 7.27" for Current 100 yr event
Inflow = 16.41 cfs @ 12.17 hrs, Volume= 1.391 af
Outflow = 14.18 cfs @ 12.23 hrs, Volume= 1.229 af, Atten= 14%, Lag= 3.6 min
Primary = 14.18 cfs @ 12.23 hrs, Volume= 1.229 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 169.66' @ 12.23 hrs Surf.Area= 6,013 sf Storage= 19,169 cf

Plug-Flow detention time= 239.4 min calculated for 1.229 af (88% of inflow)
Center-of-Mass det. time= 181.2 min (946.9 - 765.7)

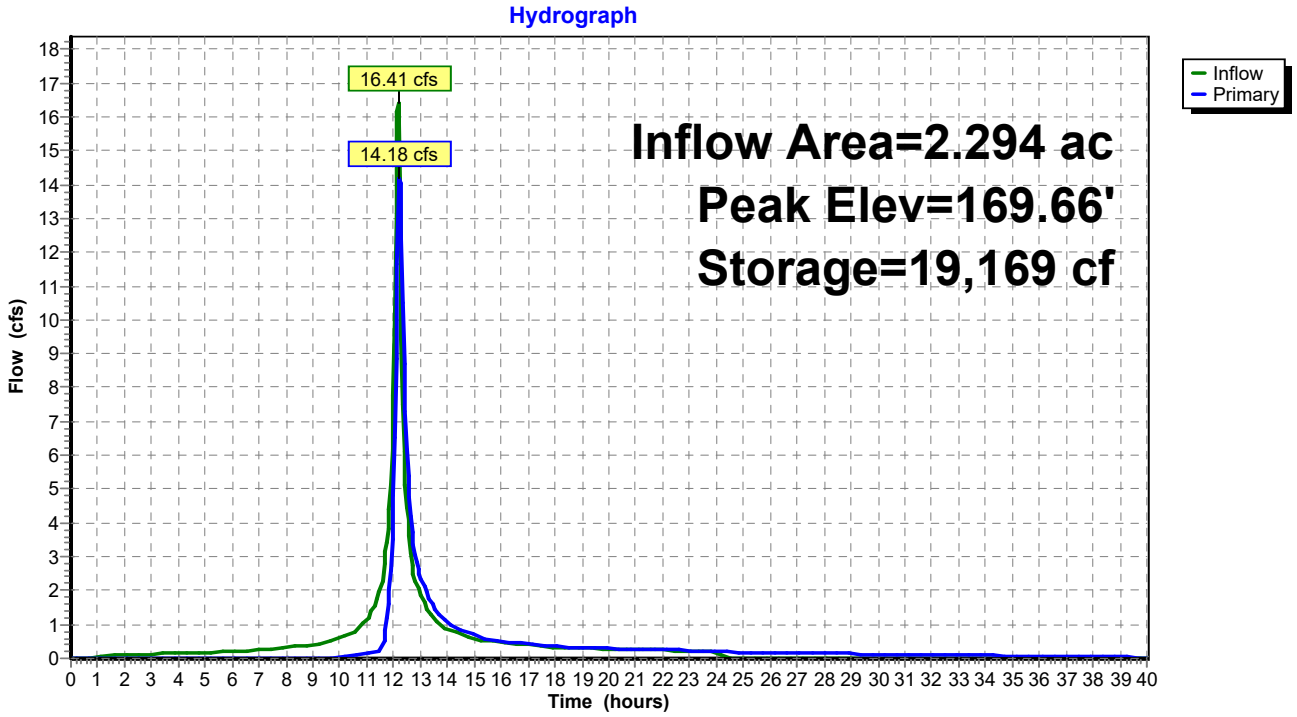
Volume	Invert	Avail.Storage	Storage Description
#1	165.30'	21,270 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
165.30	0	0	0
166.00	3,797	1,329	1,329
167.00	4,370	4,084	5,412
168.00	4,967	4,669	10,081
169.00	5,588	5,278	15,358
170.00	6,235	5,912	21,270

Device	Routing	Invert	Outlet Devices
#1	Primary	165.30'	**18.0" Round Culvert** L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 165.30' / 164.00' S= 0.0325 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	167.25'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	168.50'	**2.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Device 1	169.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#5	Primary	169.97'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=13.97 cfs @ 12.23 hrs HW=169.65' (Free Discharge)
- **1=Culvert** (Passes 13.97 cfs of 16.14 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.25 cfs @ 7.29 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 7.12 cfs @ 3.50 fps)
  - **4=Sharp-Crested Rectangular Weir** (Weir Controls 6.60 cfs @ 2.63 fps)
- **5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-45: Basin #45



Stage-Discharge for Pond B-45: Basin #45

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
165.30	0.00	165.82	0.00	166.34	0.00	166.86	0.00
165.31	0.00	165.83	0.00	166.35	0.00	166.87	0.00
165.32	0.00	165.84	0.00	166.36	0.00	166.88	0.00
165.33	0.00	165.85	0.00	166.37	0.00	166.89	0.00
165.34	0.00	165.86	0.00	166.38	0.00	166.90	0.00
165.35	0.00	165.87	0.00	166.39	0.00	166.91	0.00
165.36	0.00	165.88	0.00	166.40	0.00	166.92	0.00
165.37	0.00	165.89	0.00	166.41	0.00	166.93	0.00
165.38	0.00	165.90	0.00	166.42	0.00	166.94	0.00
165.39	0.00	165.91	0.00	166.43	0.00	166.95	0.00
165.40	0.00	165.92	0.00	166.44	0.00	166.96	0.00
165.41	0.00	165.93	0.00	166.45	0.00	166.97	0.00
165.42	0.00	165.94	0.00	166.46	0.00	166.98	0.00
165.43	0.00	165.95	0.00	166.47	0.00	166.99	0.00
165.44	0.00	165.96	0.00	166.48	0.00	167.00	0.00
165.45	0.00	165.97	0.00	166.49	0.00	167.01	0.00
165.46	0.00	165.98	0.00	166.50	0.00	167.02	0.00
165.47	0.00	165.99	0.00	166.51	0.00	167.03	0.00
165.48	0.00	166.00	0.00	166.52	0.00	167.04	0.00
165.49	0.00	166.01	0.00	166.53	0.00	167.05	0.00
165.50	0.00	166.02	0.00	166.54	0.00	167.06	0.00
165.51	0.00	166.03	0.00	166.55	0.00	167.07	0.00
165.52	0.00	166.04	0.00	166.56	0.00	167.08	0.00
165.53	0.00	166.05	0.00	166.57	0.00	167.09	0.00
165.54	0.00	166.06	0.00	166.58	0.00	167.10	0.00
165.55	0.00	166.07	0.00	166.59	0.00	167.11	0.00
165.56	0.00	166.08	0.00	166.60	0.00	167.12	0.00
165.57	0.00	166.09	0.00	166.61	0.00	167.13	0.00
165.58	0.00	166.10	0.00	166.62	0.00	167.14	0.00
165.59	0.00	166.11	0.00	166.63	0.00	167.15	0.00
165.60	0.00	166.12	0.00	166.64	0.00	167.16	0.00
165.61	0.00	166.13	0.00	166.65	0.00	167.17	0.00
165.62	0.00	166.14	0.00	166.66	0.00	167.18	0.00
165.63	0.00	166.15	0.00	166.67	0.00	167.19	0.00
165.64	0.00	166.16	0.00	166.68	0.00	167.20	0.00
165.65	0.00	166.17	0.00	166.69	0.00	167.21	0.00
165.66	0.00	166.18	0.00	166.70	0.00	167.22	0.00
165.67	0.00	166.19	0.00	166.71	0.00	167.23	0.00
165.68	0.00	166.20	0.00	166.72	0.00	167.24	0.00
165.69	0.00	166.21	0.00	166.73	0.00	167.25	0.00
165.70	0.00	166.22	0.00	166.74	0.00	167.26	0.00
165.71	0.00	166.23	0.00	166.75	0.00	167.27	0.00
165.72	0.00	166.24	0.00	166.76	0.00	167.28	0.00
165.73	0.00	166.25	0.00	166.77	0.00	167.29	0.00
165.74	0.00	166.26	0.00	166.78	0.00	167.30	0.00
165.75	0.00	166.27	0.00	166.79	0.00	167.31	0.01
165.76	0.00	166.28	0.00	166.80	0.00	167.32	0.01
165.77	0.00	166.29	0.00	166.81	0.00	167.33	0.01
165.78	0.00	166.30	0.00	166.82	0.00	167.34	0.01
165.79	0.00	166.31	0.00	166.83	0.00	167.35	0.02
165.80	0.00	166.32	0.00	166.84	0.00	167.36	0.02
165.81	0.00	166.33	0.00	166.85	0.00	167.37	0.02

Stage-Discharge for Pond B-45: Basin #45 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
167.38	0.03	167.90	0.12	168.42	0.17	168.94	2.03
167.39	0.03	167.91	0.12	168.43	0.17	168.95	2.09
167.40	0.03	167.92	0.12	168.44	0.17	168.96	2.15
167.41	0.04	167.93	0.12	168.45	0.17	168.97	2.22
167.42	0.04	167.94	0.13	168.46	0.17	168.98	2.28
167.43	0.05	167.95	0.13	168.47	0.17	168.99	2.34
167.44	0.05	167.96	0.13	168.48	0.17	169.00	2.41
167.45	0.05	167.97	0.13	168.49	0.17	169.01	2.48
167.46	0.05	167.98	0.13	168.50	0.18	169.02	2.57
167.47	0.06	167.99	0.13	168.51	0.18	169.03	2.67
167.48	0.06	168.00	0.13	168.52	0.20	169.04	2.77
167.49	0.06	168.01	0.13	168.53	0.21	169.05	2.88
167.50	0.06	168.02	0.13	168.54	0.23	169.06	2.99
167.51	0.06	168.03	0.13	168.55	0.25	169.07	3.11
167.52	0.07	168.04	0.14	168.56	0.28	169.08	3.23
167.53	0.07	168.05	0.14	168.57	0.30	169.09	3.36
167.54	0.07	168.06	0.14	168.58	0.33	169.10	3.49
167.55	0.07	168.07	0.14	168.59	0.36	169.11	3.62
167.56	0.07	168.08	0.14	168.60	0.39	169.12	3.75
167.57	0.08	168.09	0.14	168.61	0.42	169.13	3.89
167.58	0.08	168.10	0.14	168.62	0.45	169.14	4.03
167.59	0.08	168.11	0.14	168.63	0.49	169.15	4.18
167.60	0.08	168.12	0.14	168.64	0.52	169.16	4.33
167.61	0.08	168.13	0.14	168.65	0.56	169.17	4.48
167.62	0.08	168.14	0.15	168.66	0.60	169.18	4.63
167.63	0.09	168.15	0.15	168.67	0.64	169.19	4.79
167.64	0.09	168.16	0.15	168.68	0.68	169.20	4.94
167.65	0.09	168.17	0.15	168.69	0.72	169.21	5.10
167.66	0.09	168.18	0.15	168.70	0.76	169.22	5.27
167.67	0.09	168.19	0.15	168.71	0.81	169.23	5.43
167.68	0.09	168.20	0.15	168.72	0.85	169.24	5.60
167.69	0.10	168.21	0.15	168.73	0.90	169.25	5.77
167.70	0.10	168.22	0.15	168.74	0.94	169.26	5.94
167.71	0.10	168.23	0.15	168.75	0.99	169.27	6.12
167.72	0.10	168.24	0.15	168.76	1.04	169.28	6.29
167.73	0.10	168.25	0.16	168.77	1.09	169.29	6.47
167.74	0.10	168.26	0.16	168.78	1.14	169.30	6.65
167.75	0.10	168.27	0.16	168.79	1.19	169.31	6.83
167.76	0.10	168.28	0.16	168.80	1.24	169.32	7.02
167.77	0.11	168.29	0.16	168.81	1.29	169.33	7.20
167.78	0.11	168.30	0.16	168.82	1.34	169.34	7.39
167.79	0.11	168.31	0.16	168.83	1.40	169.35	7.58
167.80	0.11	168.32	0.16	168.84	1.45	169.36	7.77
167.81	0.11	168.33	0.16	168.85	1.51	169.37	7.97
167.82	0.11	168.34	0.16	168.86	1.56	169.38	8.16
167.83	0.11	168.35	0.16	168.87	1.62	169.39	8.36
167.84	0.11	168.36	0.16	168.88	1.68	169.40	8.56
167.85	0.12	168.37	0.17	168.89	1.73	169.41	8.76
167.86	0.12	168.38	0.17	168.90	1.79	169.42	8.96
167.87	0.12	168.39	0.17	168.91	1.85	169.43	9.17
167.88	0.12	168.40	0.17	168.92	1.91	169.44	9.37
167.89	0.12	168.41	0.17	168.93	1.97	169.45	9.58

Stage-Discharge for Pond B-45: Basin #45 (continued)

Elevation (feet)	Primary (cfs)
169.46	9.79
169.47	10.00
169.48	10.21
169.49	10.42
169.50	10.64
169.51	10.85
169.52	11.07
169.53	11.29
169.54	11.51
169.55	11.73
169.56	11.95
169.57	12.18
169.58	12.40
169.59	12.63
169.60	12.86
169.61	13.09
169.62	13.32
169.63	13.55
169.64	13.78
169.65	14.02
169.66	14.25
169.67	14.49
169.68	14.73
169.69	14.97
169.70	15.21
169.71	15.45
169.72	15.69
169.73	15.94
169.74	16.18
169.75	16.37
169.76	16.39
169.77	16.41
169.78	16.43
169.79	16.46
169.80	16.48
169.81	16.50
169.82	16.52
169.83	16.54
169.84	16.56
169.85	16.59
169.86	16.61
169.87	16.63
169.88	16.65
169.89	16.67
169.90	16.70
169.91	16.72
169.92	16.74
169.93	16.76
169.94	16.78
169.95	16.80
169.96	16.82
169.97	16.85
169.98	16.99
169.99	17.22
170.00	**17.52**

Stage-Area-Storage for Pond B-45: Basin #45

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
165.30	0	0
165.31	54	0
165.32	108	1
165.33	163	2
165.34	217	4
165.35	271	7
165.36	325	10
165.37	380	13
165.38	434	17
165.39	488	22
165.40	542	27
165.41	597	33
165.42	651	39
165.43	705	46
165.44	759	53
165.45	814	61
165.46	868	69
165.47	922	78
165.48	976	88
165.49	1,031	98
165.50	1,085	108
165.51	1,139	120
165.52	1,193	131
165.53	1,248	143
165.54	1,302	156
165.55	1,356	170
165.56	1,410	183
165.57	1,465	198
165.58	1,519	213
165.59	1,573	228
165.60	1,627	244
165.61	1,682	261
165.62	1,736	278
165.63	1,790	295
165.64	1,844	314
165.65	1,899	332
165.66	1,953	351
165.67	2,007	371
165.68	2,061	392
165.69	2,115	413
165.70	2,170	434
165.71	2,224	456
165.72	2,278	478
165.73	2,332	501
165.74	2,387	525
165.75	2,441	549
165.76	2,495	574
165.77	2,549	599
165.78	2,604	625
165.79	2,658	651
165.80	2,712	678
165.81	2,766	705
165.82	2,821	733
165.83	2,875	762
165.84	2,929	791
165.85	2,983	820
165.86	3,038	851
165.87	3,092	881
165.88	3,146	912
165.89	3,200	944
165.90	3,255	976
165.91	3,309	1,009
165.92	3,363	1,043
165.93	3,417	1,076
165.94	3,472	1,111
165.95	3,526	1,146
165.96	3,580	1,181
165.97	3,634	1,217
165.98	3,689	1,254
165.99	3,743	1,291
166.00	3,797	1,329
166.01	3,803	1,367
166.02	3,808	1,405
166.03	3,814	1,443
166.04	3,820	1,481
166.05	3,826	1,520
166.06	3,831	1,558
166.07	3,837	1,596
166.08	3,843	1,635
166.09	3,849	1,673
166.10	3,854	1,712
166.11	3,860	1,750
166.12	3,866	1,789
166.13	3,871	1,827
166.14	3,877	1,866
166.15	3,883	1,905
166.16	3,889	1,944
166.17	3,894	1,983
166.18	3,900	2,022
166.19	3,906	2,061
166.20	3,912	2,100
166.21	3,917	2,139
166.22	3,923	2,178
166.23	3,929	2,217
166.24	3,935	2,257
166.25	3,940	2,296
166.26	3,946	2,336
166.27	3,952	2,375
166.28	3,957	2,415
166.29	3,963	2,454
166.30	3,969	2,494
166.31	3,975	2,534
166.32	3,980	2,573
166.33	3,986	2,613

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
166.34	3,992	2,653	166.86	4,290	4,806
166.35	3,998	2,693	166.87	4,296	4,849
166.36	4,003	2,733	166.88	4,301	4,892
166.37	4,009	2,773	166.89	4,307	4,935
166.38	4,015	2,813	166.90	4,313	4,978
166.39	4,020	2,853	166.91	4,318	5,021
166.40	4,026	2,894	166.92	4,324	5,065
166.41	4,032	2,934	166.93	4,330	5,108
166.42	4,038	2,974	166.94	4,336	5,151
166.43	4,043	3,015	166.95	4,341	5,195
166.44	4,049	3,055	166.96	4,347	5,238
166.45	4,055	3,096	166.97	4,353	5,282
166.46	4,061	3,136	166.98	4,359	5,325
166.47	4,066	3,177	166.99	4,364	5,369
166.48	4,072	3,218	167.00	4,370	5,412
166.49	4,078	3,258	167.01	4,376	5,456
166.50	4,084	3,299	167.02	4,382	5,500
166.51	4,089	3,340	167.03	4,388	5,544
166.52	4,095	3,381	167.04	4,394	5,588
166.53	4,101	3,422	167.05	4,400	5,632
166.54	4,106	3,463	167.06	4,406	5,676
166.55	4,112	3,504	167.07	4,412	5,720
166.56	4,118	3,545	167.08	4,418	5,764
166.57	4,124	3,586	167.09	4,424	5,808
166.58	4,129	3,628	167.10	4,430	5,852
166.59	4,135	3,669	167.11	4,436	5,897
166.60	4,141	3,710	167.12	4,442	5,941
166.61	4,147	3,752	167.13	4,448	5,986
166.62	4,152	3,793	167.14	4,454	6,030
166.63	4,158	3,835	167.15	4,460	6,075
166.64	4,164	3,876	167.16	4,466	6,119
166.65	4,169	3,918	167.17	4,471	6,164
166.66	4,175	3,960	167.18	4,477	6,209
166.67	4,181	4,002	167.19	4,483	6,254
166.68	4,187	4,043	167.20	4,489	6,298
166.69	4,192	4,085	167.21	4,495	6,343
166.70	4,198	4,127	167.22	4,501	6,388
166.71	4,204	4,169	167.23	4,507	6,433
166.72	4,210	4,211	167.24	4,513	6,478
166.73	4,215	4,253	167.25	4,519	6,524
166.74	4,221	4,296	167.26	4,525	6,569
166.75	4,227	4,338	167.27	4,531	6,614
166.76	4,232	4,380	167.28	4,537	6,659
166.77	4,238	4,423	167.29	4,543	6,705
166.78	4,244	4,465	167.30	4,549	6,750
166.79	4,250	4,507	167.31	4,555	6,796
166.80	4,255	4,550	167.32	4,561	6,841
166.81	4,261	4,592	167.33	4,567	6,887
166.82	4,267	4,635	167.34	4,573	6,933
166.83	4,273	4,678	167.35	4,579	6,979
166.84	4,278	4,721	167.36	4,585	7,024
166.85	4,284	4,763	167.37	4,591	7,070

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
167.38	4,597	7,116	167.90	4,907	9,587
167.39	4,603	7,162	167.91	4,913	9,636
167.40	4,609	7,208	167.92	4,919	9,686
167.41	4,615	7,254	167.93	4,925	9,735
167.42	4,621	7,301	167.94	4,931	9,784
167.43	4,627	7,347	167.95	4,937	9,833
167.44	4,633	7,393	167.96	4,943	9,883
167.45	4,639	7,439	167.97	4,949	9,932
167.46	4,645	7,486	167.98	4,955	9,982
167.47	4,651	7,532	167.99	4,961	10,031
167.48	4,657	7,579	168.00	4,967	10,081
167.49	4,663	7,625	168.01	4,973	10,131
167.50	4,669	7,672	168.02	4,979	10,180
167.51	4,674	7,719	168.03	4,986	10,230
167.52	4,680	7,766	168.04	4,992	10,280
167.53	4,686	7,812	168.05	4,998	10,330
167.54	4,692	7,859	168.06	5,004	10,380
167.55	4,698	7,906	168.07	5,010	10,430
167.56	4,704	7,953	168.08	5,017	10,480
167.57	4,710	8,000	168.09	5,023	10,530
167.58	4,716	8,047	168.10	5,029	10,581
167.59	4,722	8,095	168.11	5,035	10,631
167.60	4,728	8,142	168.12	5,042	10,681
167.61	4,734	8,189	168.13	5,048	10,732
167.62	4,740	8,237	168.14	5,054	10,782
167.63	4,746	8,284	168.15	5,060	10,833
167.64	4,752	8,332	168.16	5,066	10,884
167.65	4,758	8,379	168.17	5,073	10,934
167.66	4,764	8,427	168.18	5,079	10,985
167.67	4,770	8,474	168.19	5,085	11,036
167.68	4,776	8,522	168.20	5,091	11,087
167.69	4,782	8,570	168.21	5,097	11,138
167.70	4,788	8,618	168.22	5,104	11,189
167.71	4,794	8,666	168.23	5,110	11,240
167.72	4,800	8,714	168.24	5,116	11,291
167.73	4,806	8,762	168.25	5,122	11,342
167.74	4,812	8,810	168.26	5,128	11,393
167.75	4,818	8,858	168.27	5,135	11,445
167.76	4,824	8,906	168.28	5,141	11,496
167.77	4,830	8,954	168.29	5,147	11,547
167.78	4,836	9,003	168.30	5,153	11,599
167.79	4,842	9,051	168.31	5,160	11,651
167.80	4,848	9,099	168.32	5,166	11,702
167.81	4,854	9,148	168.33	5,172	11,754
167.82	4,860	9,197	168.34	5,178	11,806
167.83	4,866	9,245	168.35	5,184	11,857
167.84	4,871	9,294	168.36	5,191	11,909
167.85	4,877	9,343	168.37	5,197	11,961
167.86	4,883	9,391	168.38	5,203	12,013
167.87	4,889	9,440	168.39	5,209	12,065
167.88	4,895	9,489	168.40	5,215	12,117
167.89	4,901	9,538	168.41	5,222	12,170

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
168.42	5,228	12,222	168.94	5,551	15,024
168.43	5,234	12,274	168.95	5,557	15,080
168.44	5,240	12,327	168.96	5,563	15,135
168.45	5,246	12,379	168.97	5,569	15,191
168.46	5,253	12,431	168.98	5,576	15,247
168.47	5,259	12,484	168.99	5,582	15,303
168.48	5,265	12,537	169.00	5,588	15,358
168.49	5,271	12,589	169.01	5,594	15,414
168.50	5,278	12,642	169.02	5,601	15,470
168.51	5,284	12,695	169.03	5,607	15,526
168.52	5,290	12,748	169.04	5,614	15,582
168.53	5,296	12,801	169.05	5,620	15,639
168.54	5,302	12,854	169.06	5,627	15,695
168.55	5,309	12,907	169.07	5,633	15,751
168.56	5,315	12,960	169.08	5,640	15,808
168.57	5,321	13,013	169.09	5,646	15,864
168.58	5,327	13,066	169.10	5,653	15,920
168.59	5,333	13,120	169.11	5,659	15,977
168.60	5,340	13,173	169.12	5,666	16,034
168.61	5,346	13,226	169.13	5,672	16,090
168.62	5,352	13,280	169.14	5,679	16,147
168.63	5,358	13,333	169.15	5,685	16,204
168.64	5,364	13,387	169.16	5,692	16,261
168.65	5,371	13,441	169.17	5,698	16,318
168.66	5,377	13,494	169.18	5,704	16,375
168.67	5,383	13,548	169.19	5,711	16,432
168.68	5,389	13,602	169.20	5,717	16,489
168.69	5,395	13,656	169.21	5,724	16,546
168.70	5,402	13,710	169.22	5,730	16,603
168.71	5,408	13,764	169.23	5,737	16,661
168.72	5,414	13,818	169.24	5,743	16,718
168.73	5,420	13,872	169.25	5,750	16,776
168.74	5,427	13,927	169.26	5,756	16,833
168.75	5,433	13,981	169.27	5,763	16,891
168.76	5,439	14,035	169.28	5,769	16,948
168.77	5,445	14,090	169.29	5,776	17,006
168.78	5,451	14,144	169.30	5,782	17,064
168.79	5,458	14,199	169.31	5,789	17,122
168.80	5,464	14,253	169.32	5,795	17,180
168.81	5,470	14,308	169.33	5,802	17,238
168.82	5,476	14,363	169.34	5,808	17,296
168.83	5,482	14,417	169.35	5,814	17,354
168.84	5,489	14,472	169.36	5,821	17,412
168.85	5,495	14,527	169.37	5,827	17,470
168.86	5,501	14,582	169.38	5,834	17,529
168.87	5,507	14,637	169.39	5,840	17,587
168.88	5,513	14,692	169.40	5,847	17,645
168.89	5,520	14,748	169.41	5,853	17,704
168.90	5,526	14,803	169.42	5,860	17,762
168.91	5,532	14,858	169.43	5,866	17,821
168.92	5,538	14,913	169.44	5,873	17,880
168.93	5,545	14,969	169.45	5,879	17,939

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.46	5,886	17,997
169.47	5,892	18,056
169.48	5,899	18,115
169.49	5,905	18,174
169.50	5,912	18,233
169.51	5,918	18,292
169.52	5,924	18,352
169.53	5,931	18,411
169.54	5,937	18,470
169.55	5,944	18,530
169.56	5,950	18,589
169.57	5,957	18,649
169.58	5,963	18,708
169.59	5,970	18,768
169.60	5,976	18,828
169.61	5,983	18,888
169.62	5,989	18,947
169.63	5,996	19,007
169.64	6,002	19,067
169.65	6,009	19,127
169.66	6,015	19,187
169.67	6,021	19,248
169.68	6,028	19,308
169.69	6,034	19,368
169.70	6,041	19,429
169.71	6,047	19,489
169.72	6,054	19,550
169.73	6,060	19,610
169.74	6,067	19,671
169.75	6,073	19,731
169.76	6,080	19,792
169.77	6,086	19,853
169.78	6,093	19,914
169.79	6,099	19,975
169.80	6,106	20,036
169.81	6,112	20,097
169.82	6,119	20,158
169.83	6,125	20,219
169.84	6,131	20,281
169.85	6,138	20,342
169.86	6,144	20,403
169.87	6,151	20,465
169.88	6,157	20,526
169.89	6,164	20,588
169.90	6,170	20,650
169.91	6,177	20,711
169.92	6,183	20,773
169.93	6,190	20,835
169.94	6,196	20,897
169.95	6,203	20,959
169.96	6,209	21,021
169.97	6,216	21,083
169.98	6,222	21,145
169.99	6,229	21,208
170.00	**6,235**	**21,270**

Summary for Pond B-46A: Basin #46A

Inflow Area = 2.480 ac, 46.25% Impervious, Inflow Depth = 6.79" for Current 100 yr event
Inflow = 16.97 cfs @ 12.17 hrs, Volume= 1.404 af
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Pond B-46B : Basin #46B

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 186.37' @ 24.60 hrs Surf.Area= 16,429 sf Storage= 61,168 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

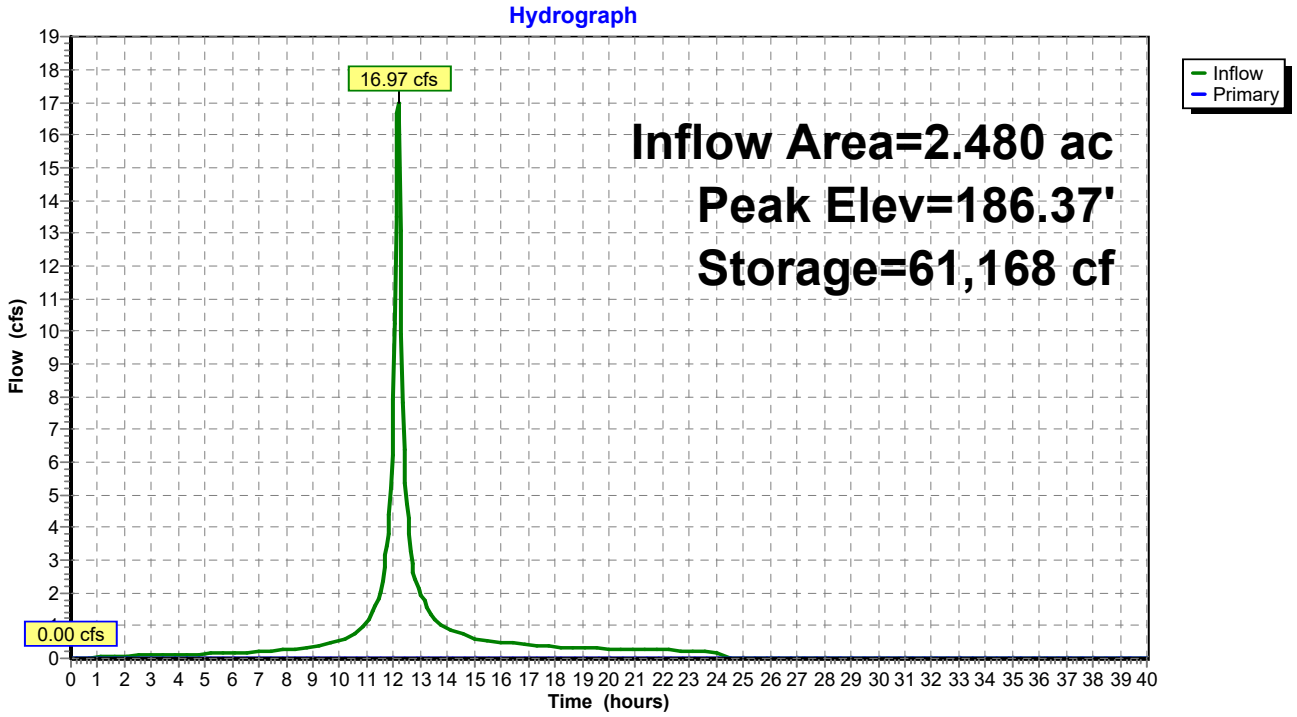
Volume	Invert	Avail.Storage	Storage Description
#1	181.00'	90,351 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
181.00	6,639	0	0
182.00	7,998	7,319	7,319
183.00	9,413	8,706	16,024
184.00	12,515	10,964	26,988
185.00	14,128	13,322	40,310
186.00	15,798	14,963	55,273
187.00	17,524	16,661	71,934
188.00	19,310	18,417	90,351

Device	Routing	Invert	Outlet Devices
#1	Primary	187.50'	**50.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s) 0.5' Crest Height

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=181.00' (Free Discharge)
1=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-46A: Basin #46A



Stage-Discharge for Pond B-46A: Basin #46A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.00	0.00	181.52	0.00	182.04	0.00	182.56	0.00
181.01	0.00	181.53	0.00	182.05	0.00	182.57	0.00
181.02	0.00	181.54	0.00	182.06	0.00	182.58	0.00
181.03	0.00	181.55	0.00	182.07	0.00	182.59	0.00
181.04	0.00	181.56	0.00	182.08	0.00	182.60	0.00
181.05	0.00	181.57	0.00	182.09	0.00	182.61	0.00
181.06	0.00	181.58	0.00	182.10	0.00	182.62	0.00
181.07	0.00	181.59	0.00	182.11	0.00	182.63	0.00
181.08	0.00	181.60	0.00	182.12	0.00	182.64	0.00
181.09	0.00	181.61	0.00	182.13	0.00	182.65	0.00
181.10	0.00	181.62	0.00	182.14	0.00	182.66	0.00
181.11	0.00	181.63	0.00	182.15	0.00	182.67	0.00
181.12	0.00	181.64	0.00	182.16	0.00	182.68	0.00
181.13	0.00	181.65	0.00	182.17	0.00	182.69	0.00
181.14	0.00	181.66	0.00	182.18	0.00	182.70	0.00
181.15	0.00	181.67	0.00	182.19	0.00	182.71	0.00
181.16	0.00	181.68	0.00	182.20	0.00	182.72	0.00
181.17	0.00	181.69	0.00	182.21	0.00	182.73	0.00
181.18	0.00	181.70	0.00	182.22	0.00	182.74	0.00
181.19	0.00	181.71	0.00	182.23	0.00	182.75	0.00
181.20	0.00	181.72	0.00	182.24	0.00	182.76	0.00
181.21	0.00	181.73	0.00	182.25	0.00	182.77	0.00
181.22	0.00	181.74	0.00	182.26	0.00	182.78	0.00
181.23	0.00	181.75	0.00	182.27	0.00	182.79	0.00
181.24	0.00	181.76	0.00	182.28	0.00	182.80	0.00
181.25	0.00	181.77	0.00	182.29	0.00	182.81	0.00
181.26	0.00	181.78	0.00	182.30	0.00	182.82	0.00
181.27	0.00	181.79	0.00	182.31	0.00	182.83	0.00
181.28	0.00	181.80	0.00	182.32	0.00	182.84	0.00
181.29	0.00	181.81	0.00	182.33	0.00	182.85	0.00
181.30	0.00	181.82	0.00	182.34	0.00	182.86	0.00
181.31	0.00	181.83	0.00	182.35	0.00	182.87	0.00
181.32	0.00	181.84	0.00	182.36	0.00	182.88	0.00
181.33	0.00	181.85	0.00	182.37	0.00	182.89	0.00
181.34	0.00	181.86	0.00	182.38	0.00	182.90	0.00
181.35	0.00	181.87	0.00	182.39	0.00	182.91	0.00
181.36	0.00	181.88	0.00	182.40	0.00	182.92	0.00
181.37	0.00	181.89	0.00	182.41	0.00	182.93	0.00
181.38	0.00	181.90	0.00	182.42	0.00	182.94	0.00
181.39	0.00	181.91	0.00	182.43	0.00	182.95	0.00
181.40	0.00	181.92	0.00	182.44	0.00	182.96	0.00
181.41	0.00	181.93	0.00	182.45	0.00	182.97	0.00
181.42	0.00	181.94	0.00	182.46	0.00	182.98	0.00
181.43	0.00	181.95	0.00	182.47	0.00	182.99	0.00
181.44	0.00	181.96	0.00	182.48	0.00	183.00	0.00
181.45	0.00	181.97	0.00	182.49	0.00	183.01	0.00
181.46	0.00	181.98	0.00	182.50	0.00	183.02	0.00
181.47	0.00	181.99	0.00	182.51	0.00	183.03	0.00
181.48	0.00	182.00	0.00	182.52	0.00	183.04	0.00
181.49	0.00	182.01	0.00	182.53	0.00	183.05	0.00
181.50	0.00	182.02	0.00	182.54	0.00	183.06	0.00
181.51	0.00	182.03	0.00	182.55	0.00	183.07	0.00

Stage-Discharge for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.08	0.00	183.60	0.00	184.12	0.00	184.64	0.00
183.09	0.00	183.61	0.00	184.13	0.00	184.65	0.00
183.10	0.00	183.62	0.00	184.14	0.00	184.66	0.00
183.11	0.00	183.63	0.00	184.15	0.00	184.67	0.00
183.12	0.00	183.64	0.00	184.16	0.00	184.68	0.00
183.13	0.00	183.65	0.00	184.17	0.00	184.69	0.00
183.14	0.00	183.66	0.00	184.18	0.00	184.70	0.00
183.15	0.00	183.67	0.00	184.19	0.00	184.71	0.00
183.16	0.00	183.68	0.00	184.20	0.00	184.72	0.00
183.17	0.00	183.69	0.00	184.21	0.00	184.73	0.00
183.18	0.00	183.70	0.00	184.22	0.00	184.74	0.00
183.19	0.00	183.71	0.00	184.23	0.00	184.75	0.00
183.20	0.00	183.72	0.00	184.24	0.00	184.76	0.00
183.21	0.00	183.73	0.00	184.25	0.00	184.77	0.00
183.22	0.00	183.74	0.00	184.26	0.00	184.78	0.00
183.23	0.00	183.75	0.00	184.27	0.00	184.79	0.00
183.24	0.00	183.76	0.00	184.28	0.00	184.80	0.00
183.25	0.00	183.77	0.00	184.29	0.00	184.81	0.00
183.26	0.00	183.78	0.00	184.30	0.00	184.82	0.00
183.27	0.00	183.79	0.00	184.31	0.00	184.83	0.00
183.28	0.00	183.80	0.00	184.32	0.00	184.84	0.00
183.29	0.00	183.81	0.00	184.33	0.00	184.85	0.00
183.30	0.00	183.82	0.00	184.34	0.00	184.86	0.00
183.31	0.00	183.83	0.00	184.35	0.00	184.87	0.00
183.32	0.00	183.84	0.00	184.36	0.00	184.88	0.00
183.33	0.00	183.85	0.00	184.37	0.00	184.89	0.00
183.34	0.00	183.86	0.00	184.38	0.00	184.90	0.00
183.35	0.00	183.87	0.00	184.39	0.00	184.91	0.00
183.36	0.00	183.88	0.00	184.40	0.00	184.92	0.00
183.37	0.00	183.89	0.00	184.41	0.00	184.93	0.00
183.38	0.00	183.90	0.00	184.42	0.00	184.94	0.00
183.39	0.00	183.91	0.00	184.43	0.00	184.95	0.00
183.40	0.00	183.92	0.00	184.44	0.00	184.96	0.00
183.41	0.00	183.93	0.00	184.45	0.00	184.97	0.00
183.42	0.00	183.94	0.00	184.46	0.00	184.98	0.00
183.43	0.00	183.95	0.00	184.47	0.00	184.99	0.00
183.44	0.00	183.96	0.00	184.48	0.00	185.00	0.00
183.45	0.00	183.97	0.00	184.49	0.00	185.01	0.00
183.46	0.00	183.98	0.00	184.50	0.00	185.02	0.00
183.47	0.00	183.99	0.00	184.51	0.00	185.03	0.00
183.48	0.00	184.00	0.00	184.52	0.00	185.04	0.00
183.49	0.00	184.01	0.00	184.53	0.00	185.05	0.00
183.50	0.00	184.02	0.00	184.54	0.00	185.06	0.00
183.51	0.00	184.03	0.00	184.55	0.00	185.07	0.00
183.52	0.00	184.04	0.00	184.56	0.00	185.08	0.00
183.53	0.00	184.05	0.00	184.57	0.00	185.09	0.00
183.54	0.00	184.06	0.00	184.58	0.00	185.10	0.00
183.55	0.00	184.07	0.00	184.59	0.00	185.11	0.00
183.56	0.00	184.08	0.00	184.60	0.00	185.12	0.00
183.57	0.00	184.09	0.00	184.61	0.00	185.13	0.00
183.58	0.00	184.10	0.00	184.62	0.00	185.14	0.00
183.59	0.00	184.11	0.00	184.63	0.00	185.15	0.00

Stage-Discharge for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.16	0.00	185.68	0.00	186.20	0.00	186.72	0.00
185.17	0.00	185.69	0.00	186.21	0.00	186.73	0.00
185.18	0.00	185.70	0.00	186.22	0.00	186.74	0.00
185.19	0.00	185.71	0.00	186.23	0.00	186.75	0.00
185.20	0.00	185.72	0.00	186.24	0.00	186.76	0.00
185.21	0.00	185.73	0.00	186.25	0.00	186.77	0.00
185.22	0.00	185.74	0.00	186.26	0.00	186.78	0.00
185.23	0.00	185.75	0.00	186.27	0.00	186.79	0.00
185.24	0.00	185.76	0.00	186.28	0.00	186.80	0.00
185.25	0.00	185.77	0.00	186.29	0.00	186.81	0.00
185.26	0.00	185.78	0.00	186.30	0.00	186.82	0.00
185.27	0.00	185.79	0.00	186.31	0.00	186.83	0.00
185.28	0.00	185.80	0.00	186.32	0.00	186.84	0.00
185.29	0.00	185.81	0.00	186.33	0.00	186.85	0.00
185.30	0.00	185.82	0.00	186.34	0.00	186.86	0.00
185.31	0.00	185.83	0.00	186.35	0.00	186.87	0.00
185.32	0.00	185.84	0.00	186.36	0.00	186.88	0.00
185.33	0.00	185.85	0.00	186.37	0.00	186.89	0.00
185.34	0.00	185.86	0.00	186.38	0.00	186.90	0.00
185.35	0.00	185.87	0.00	186.39	0.00	186.91	0.00
185.36	0.00	185.88	0.00	186.40	0.00	186.92	0.00
185.37	0.00	185.89	0.00	186.41	0.00	186.93	0.00
185.38	0.00	185.90	0.00	186.42	0.00	186.94	0.00
185.39	0.00	185.91	0.00	186.43	0.00	186.95	0.00
185.40	0.00	185.92	0.00	186.44	0.00	186.96	0.00
185.41	0.00	185.93	0.00	186.45	0.00	186.97	0.00
185.42	0.00	185.94	0.00	186.46	0.00	186.98	0.00
185.43	0.00	185.95	0.00	186.47	0.00	186.99	0.00
185.44	0.00	185.96	0.00	186.48	0.00	187.00	0.00
185.45	0.00	185.97	0.00	186.49	0.00	187.01	0.00
185.46	0.00	185.98	0.00	186.50	0.00	187.02	0.00
185.47	0.00	185.99	0.00	186.51	0.00	187.03	0.00
185.48	0.00	186.00	0.00	186.52	0.00	187.04	0.00
185.49	0.00	186.01	0.00	186.53	0.00	187.05	0.00
185.50	0.00	186.02	0.00	186.54	0.00	187.06	0.00
185.51	0.00	186.03	0.00	186.55	0.00	187.07	0.00
185.52	0.00	186.04	0.00	186.56	0.00	187.08	0.00
185.53	0.00	186.05	0.00	186.57	0.00	187.09	0.00
185.54	0.00	186.06	0.00	186.58	0.00	187.10	0.00
185.55	0.00	186.07	0.00	186.59	0.00	187.11	0.00
185.56	0.00	186.08	0.00	186.60	0.00	187.12	0.00
185.57	0.00	186.09	0.00	186.61	0.00	187.13	0.00
185.58	0.00	186.10	0.00	186.62	0.00	187.14	0.00
185.59	0.00	186.11	0.00	186.63	0.00	187.15	0.00
185.60	0.00	186.12	0.00	186.64	0.00	187.16	0.00
185.61	0.00	186.13	0.00	186.65	0.00	187.17	0.00
185.62	0.00	186.14	0.00	186.66	0.00	187.18	0.00
185.63	0.00	186.15	0.00	186.67	0.00	187.19	0.00
185.64	0.00	186.16	0.00	186.68	0.00	187.20	0.00
185.65	0.00	186.17	0.00	186.69	0.00	187.21	0.00
185.66	0.00	186.18	0.00	186.70	0.00	187.22	0.00
185.67	0.00	186.19	0.00	186.71	0.00	187.23	0.00

Stage-Discharge for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Primary (cfs)
187.24	0.00
187.25	0.00
187.26	0.00
187.27	0.00
187.28	0.00
187.29	0.00
187.30	0.00
187.31	0.00
187.32	0.00
187.33	0.00
187.34	0.00
187.35	0.00
187.36	0.00
187.37	0.00
187.38	0.00
187.39	0.00
187.40	0.00
187.41	0.00
187.42	0.00
187.43	0.00
187.44	0.00
187.45	0.00
187.46	0.00
187.47	0.00
187.48	0.00
187.49	0.00
187.50	0.00
187.51	0.16
187.52	0.46
187.53	0.86
187.54	1.32
187.55	1.85
187.56	2.44
187.57	3.08
187.58	3.77
187.59	4.51
187.60	5.29
187.61	6.12
187.62	6.99
187.63	7.90
187.64	8.85
187.65	9.84
187.66	10.87
187.67	11.93
187.68	13.03
187.69	14.16
187.70	15.33
187.71	16.53
187.72	17.76
187.73	19.03
187.74	20.33
187.75	21.67
187.76	23.03
187.77	24.43
187.78	25.85
187.79	27.31
187.80	28.80
187.81	30.32
187.82	31.87
187.83	33.45
187.84	35.06
187.85	36.70
187.86	38.37
187.87	40.07
187.88	41.80
187.89	43.55
187.90	45.34
187.91	47.15
187.92	48.99
187.93	50.86
187.94	52.76
187.95	54.69
187.96	56.65
187.97	58.63
187.98	60.64
187.99	62.68
188.00	**64.75**

Stage-Area-Storage for Pond B-46A: Basin #46A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.00	6,639	0
181.01	6,653	66
181.02	6,666	133
181.03	6,680	200
181.04	6,693	267
181.05	6,707	334
181.06	6,721	401
181.07	6,734	468
181.08	6,748	535
181.09	6,761	603
181.10	6,775	671
181.11	6,788	739
181.12	6,802	806
181.13	6,816	875
181.14	6,829	943
181.15	6,843	1,011
181.16	6,856	1,080
181.17	6,870	1,148
181.18	6,884	1,217
181.19	6,897	1,286
181.20	6,911	1,355
181.21	6,924	1,424
181.22	6,938	1,493
181.23	6,952	1,563
181.24	6,965	1,632
181.25	6,979	1,702
181.26	6,992	1,772
181.27	7,006	1,842
181.28	7,020	1,912
181.29	7,033	1,982
181.30	7,047	2,053
181.31	7,060	2,123
181.32	7,074	2,194
181.33	7,087	2,265
181.34	7,101	2,336
181.35	7,115	2,407
181.36	7,128	2,478
181.37	7,142	2,549
181.38	7,155	2,621
181.39	7,169	2,693
181.40	7,183	2,764
181.41	7,196	2,836
181.42	7,210	2,908
181.43	7,223	2,980
181.44	7,237	3,053
181.45	7,251	3,125
181.46	7,264	3,198
181.47	7,278	3,270
181.48	7,291	3,343
181.49	7,305	3,416
181.50	7,319	3,489
181.51	7,332	3,563
181.52	7,346	3,636
181.53	7,359	3,710
181.54	7,373	3,783
181.55	7,386	3,857
181.56	7,400	3,931
181.57	7,414	4,005
181.58	7,427	4,079
181.59	7,441	4,154
181.60	7,454	4,228
181.61	7,468	4,303
181.62	7,482	4,377
181.63	7,495	4,452
181.64	7,509	4,527
181.65	7,522	4,602
181.66	7,536	4,678
181.67	7,550	4,753
181.68	7,563	4,829
181.69	7,577	4,904
181.70	7,590	4,980
181.71	7,604	5,056
181.72	7,617	5,132
181.73	7,631	5,209
181.74	7,645	5,285
181.75	7,658	5,361
181.76	7,672	5,438
181.77	7,685	5,515
181.78	7,699	5,592
181.79	7,713	5,669
181.80	7,726	5,746
181.81	7,740	5,823
181.82	7,753	5,901
181.83	7,767	5,978
181.84	7,781	6,056
181.85	7,794	6,134
181.86	7,808	6,212
181.87	7,821	6,290
181.88	7,835	6,369
181.89	7,849	6,447
181.90	7,862	6,525
181.91	7,876	6,604
181.92	7,889	6,683
181.93	7,903	6,762
181.94	7,916	6,841
181.95	7,930	6,920
181.96	7,944	7,000
181.97	7,957	7,079
181.98	7,971	7,159
181.99	7,984	7,239
182.00	7,998	7,319
182.01	8,012	7,399
182.02	8,026	7,479
182.03	8,040	7,559

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.04	8,055	7,640
182.05	8,069	7,720
182.06	8,083	7,801
182.07	8,097	7,882
182.08	8,111	7,963
182.09	8,125	8,044
182.10	8,139	8,125
182.11	8,154	8,207
182.12	8,168	8,288
182.13	8,182	8,370
182.14	8,196	8,452
182.15	8,210	8,534
182.16	8,224	8,616
182.17	8,239	8,699
182.18	8,253	8,781
182.19	8,267	8,864
182.20	8,281	8,946
182.21	8,295	9,029
182.22	8,309	9,112
182.23	8,323	9,195
182.24	8,338	9,279
182.25	8,352	9,362
182.26	8,366	9,446
182.27	8,380	9,530
182.28	8,394	9,613
182.29	8,408	9,697
182.30	8,423	9,782
182.31	8,437	9,866
182.32	8,451	9,950
182.33	8,465	10,035
182.34	8,479	10,120
182.35	8,493	10,204
182.36	8,507	10,289
182.37	8,522	10,375
182.38	8,536	10,460
182.39	8,550	10,545
182.40	8,564	10,631
182.41	8,578	10,717
182.42	8,592	10,802
182.43	8,606	10,888
182.44	8,621	10,975
182.45	8,635	11,061
182.46	8,649	11,147
182.47	8,663	11,234
182.48	8,677	11,321
182.49	8,691	11,407
182.50	8,706	11,494
182.51	8,720	11,582
182.52	8,734	11,669
182.53	8,748	11,756
182.54	8,762	11,844
182.55	8,776	11,931
182.56	8,790	12,019
182.57	8,805	12,107
182.58	8,819	12,195
182.59	8,833	12,284
182.60	8,847	12,372
182.61	8,861	12,461
182.62	8,875	12,549
182.63	8,889	12,638
182.64	8,904	12,727
182.65	8,918	12,816
182.66	8,932	12,905
182.67	8,946	12,995
182.68	8,960	13,084
182.69	8,974	13,174
182.70	8,988	13,264
182.71	9,003	13,354
182.72	9,017	13,444
182.73	9,031	13,534
182.74	9,045	13,624
182.75	9,059	13,715
182.76	9,073	13,806
182.77	9,088	13,896
182.78	9,102	13,987
182.79	9,116	14,078
182.80	9,130	14,170
182.81	9,144	14,261
182.82	9,158	14,353
182.83	9,172	14,444
182.84	9,187	14,536
182.85	9,201	14,628
182.86	9,215	14,720
182.87	9,229	14,812
182.88	9,243	14,905
182.89	9,257	14,997
182.90	9,272	15,090
182.91	9,286	15,183
182.92	9,300	15,275
182.93	9,314	15,369
182.94	9,328	15,462
182.95	9,342	15,555
182.96	9,356	15,649
182.97	9,371	15,742
182.98	9,385	15,836
182.99	9,399	15,930
183.00	9,413	16,024
183.01	9,444	16,118
183.02	9,475	16,213
183.03	9,506	16,308
183.04	9,537	16,403
183.05	9,568	16,499
183.06	9,599	16,594
183.07	9,630	16,691

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.08	9,661	16,787
183.09	9,692	16,884
183.10	9,723	16,981
183.11	9,754	17,078
183.12	9,785	17,176
183.13	9,816	17,274
183.14	9,847	17,372
183.15	9,878	17,471
183.16	9,909	17,570
183.17	9,940	17,669
183.18	9,971	17,769
183.19	10,002	17,868
183.20	10,033	17,969
183.21	10,064	18,069
183.22	10,095	18,170
183.23	10,126	18,271
183.24	10,157	18,372
183.25	10,189	18,474
183.26	10,220	18,576
183.27	10,251	18,679
183.28	10,282	18,781
183.29	10,313	18,884
183.30	10,344	18,987
183.31	10,375	19,091
183.32	10,406	19,195
183.33	10,437	19,299
183.34	10,468	19,404
183.35	10,499	19,509
183.36	10,530	19,614
183.37	10,561	19,719
183.38	10,592	19,825
183.39	10,623	19,931
183.40	10,654	20,037
183.41	10,685	20,144
183.42	10,716	20,251
183.43	10,747	20,358
183.44	10,778	20,466
183.45	10,809	20,574
183.46	10,840	20,682
183.47	10,871	20,791
183.48	10,902	20,900
183.49	10,933	21,009
183.50	10,964	21,118
183.51	10,995	21,228
183.52	11,026	21,338
183.53	11,057	21,449
183.54	11,088	21,559
183.55	11,119	21,670
183.56	11,150	21,782
183.57	11,181	21,893
183.58	11,212	22,005
183.59	11,243	22,118
183.60	11,274	22,230
183.61	11,305	22,343
183.62	11,336	22,456
183.63	11,367	22,570
183.64	11,398	22,684
183.65	11,429	22,798
183.66	11,460	22,912
183.67	11,491	23,027
183.68	11,522	23,142
183.69	11,553	23,257
183.70	11,584	23,373
183.71	11,615	23,489
183.72	11,646	23,605
183.73	11,677	23,722
183.74	11,708	23,839
183.75	11,740	23,956
183.76	11,771	24,074
183.77	11,802	24,192
183.78	11,833	24,310
183.79	11,864	24,428
183.80	11,895	24,547
183.81	11,926	24,666
183.82	11,957	24,786
183.83	11,988	24,905
183.84	12,019	25,025
183.85	12,050	25,146
183.86	12,081	25,266
183.87	12,112	25,387
183.88	12,143	25,509
183.89	12,174	25,630
183.90	12,205	25,752
183.91	12,236	25,874
183.92	12,267	25,997
183.93	12,298	26,120
183.94	12,329	26,243
183.95	12,360	26,366
183.96	12,391	26,490
183.97	12,422	26,614
183.98	12,453	26,738
183.99	12,484	26,863
184.00	12,515	26,988
184.01	12,531	27,113
184.02	12,547	27,239
184.03	12,563	27,364
184.04	12,580	27,490
184.05	12,596	27,616
184.06	12,612	27,742
184.07	12,628	27,868
184.08	12,644	27,994
184.09	12,660	28,121
184.10	12,676	28,248
184.11	12,692	28,374

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.12	12,709	28,501
184.13	12,725	28,629
184.14	12,741	28,756
184.15	12,757	28,883
184.16	12,773	29,011
184.17	12,789	29,139
184.18	12,805	29,267
184.19	12,821	29,395
184.20	12,838	29,523
184.21	12,854	29,652
184.22	12,870	29,780
184.23	12,886	29,909
184.24	12,902	30,038
184.25	12,918	30,167
184.26	12,934	30,296
184.27	12,951	30,426
184.28	12,967	30,555
184.29	12,983	30,685
184.30	12,999	30,815
184.31	13,015	30,945
184.32	13,031	31,075
184.33	13,047	31,206
184.34	13,063	31,336
184.35	13,080	31,467
184.36	13,096	31,598
184.37	13,112	31,729
184.38	13,128	31,860
184.39	13,144	31,992
184.40	13,160	32,123
184.41	13,176	32,255
184.42	13,192	32,387
184.43	13,209	32,519
184.44	13,225	32,651
184.45	13,241	32,783
184.46	13,257	32,916
184.47	13,273	33,048
184.48	13,289	33,181
184.49	13,305	33,314
184.50	13,322	33,447
184.51	13,338	33,580
184.52	13,354	33,714
184.53	13,370	33,847
184.54	13,386	33,981
184.55	13,402	34,115
184.56	13,418	34,249
184.57	13,434	34,384
184.58	13,451	34,518
184.59	13,467	34,653
184.60	13,483	34,787
184.61	13,499	34,922
184.62	13,515	35,057
184.63	13,531	35,193
184.64	13,547	35,328
184.65	13,563	35,463
184.66	13,580	35,599
184.67	13,596	35,735
184.68	13,612	35,871
184.69	13,628	36,007
184.70	13,644	36,144
184.71	13,660	36,280
184.72	13,676	36,417
184.73	13,692	36,554
184.74	13,709	36,691
184.75	13,725	36,828
184.76	13,741	36,965
184.77	13,757	37,103
184.78	13,773	37,240
184.79	13,789	37,378
184.80	13,805	37,516
184.81	13,822	37,654
184.82	13,838	37,793
184.83	13,854	37,931
184.84	13,870	38,070
184.85	13,886	38,208
184.86	13,902	38,347
184.87	13,918	38,486
184.88	13,934	38,626
184.89	13,951	38,765
184.90	13,967	38,905
184.91	13,983	39,045
184.92	13,999	39,184
184.93	14,015	39,324
184.94	14,031	39,465
184.95	14,047	39,605
184.96	14,063	39,746
184.97	14,080	39,886
184.98	14,096	40,027
184.99	14,112	40,168
185.00	14,128	40,310
185.01	14,145	40,451
185.02	14,161	40,592
185.03	14,178	40,734
185.04	14,195	40,876
185.05	14,212	41,018
185.06	14,228	41,160
185.07	14,245	41,303
185.08	14,262	41,445
185.09	14,278	41,588
185.10	14,295	41,731
185.11	14,312	41,874
185.12	14,328	42,017
185.13	14,345	42,160
185.14	14,362	42,304
185.15	14,379	42,447

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.16	14,395	42,591
185.17	14,412	42,735
185.18	14,429	42,880
185.19	14,445	43,024
185.20	14,462	43,168
185.21	14,479	43,313
185.22	14,495	43,458
185.23	14,512	43,603
185.24	14,529	43,748
185.25	14,546	43,894
185.26	14,562	44,039
185.27	14,579	44,185
185.28	14,596	44,331
185.29	14,612	44,477
185.30	14,629	44,623
185.31	14,646	44,769
185.32	14,662	44,916
185.33	14,679	45,063
185.34	14,696	45,210
185.35	14,712	45,357
185.36	14,729	45,504
185.37	14,746	45,651
185.38	14,763	45,799
185.39	14,779	45,946
185.40	14,796	46,094
185.41	14,813	46,242
185.42	14,829	46,391
185.43	14,846	46,539
185.44	14,863	46,687
185.45	14,879	46,836
185.46	14,896	46,985
185.47	14,913	47,134
185.48	14,930	47,283
185.49	14,946	47,433
185.50	14,963	47,582
185.51	14,980	47,732
185.52	14,996	47,882
185.53	15,013	48,032
185.54	15,030	48,182
185.55	15,047	48,332
185.56	15,063	48,483
185.57	15,080	48,634
185.58	15,097	48,785
185.59	15,113	48,936
185.60	15,130	49,087
185.61	15,147	49,238
185.62	15,163	49,390
185.63	15,180	49,542
185.64	15,197	49,693
185.65	15,214	49,845
185.66	15,230	49,998
185.67	15,247	50,150
185.68	15,264	50,303
185.69	15,280	50,455
185.70	15,297	50,608
185.71	15,314	50,761
185.72	15,330	50,915
185.73	15,347	51,068
185.74	15,364	51,221
185.75	15,381	51,375
185.76	15,397	51,529
185.77	15,414	51,683
185.78	15,431	51,837
185.79	15,447	51,992
185.80	15,464	52,146
185.81	15,481	52,301
185.82	15,497	52,456
185.83	15,514	52,611
185.84	15,531	52,766
185.85	15,547	52,922
185.86	15,564	53,077
185.87	15,581	53,233
185.88	15,598	53,389
185.89	15,614	53,545
185.90	15,631	53,701
185.91	15,648	53,857
185.92	15,664	54,014
185.93	15,681	54,171
185.94	15,698	54,328
185.95	15,714	54,485
185.96	15,731	54,642
185.97	15,748	54,799
185.98	15,765	54,957
185.99	15,781	55,115
186.00	15,798	55,273
186.01	15,815	55,431
186.02	15,833	55,589
186.03	15,850	55,747
186.04	15,867	55,906
186.05	15,884	56,065
186.06	15,902	56,223
186.07	15,919	56,383
186.08	15,936	56,542
186.09	15,953	56,701
186.10	15,971	56,861
186.11	15,988	57,021
186.12	16,005	57,181
186.13	16,022	57,341
186.14	16,040	57,501
186.15	16,057	57,662
186.16	16,074	57,822
186.17	16,091	57,983
186.18	16,109	58,144
186.19	16,126	58,305

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.20	16,143	58,467	186.72	17,041	67,094
186.21	16,160	58,628	186.73	17,058	67,265
186.22	16,178	58,790	186.74	17,075	67,436
186.23	16,195	58,952	186.75	17,093	67,606
186.24	16,212	59,114	186.76	17,110	67,777
186.25	16,230	59,276	186.77	17,127	67,949
186.26	16,247	59,438	186.78	17,144	68,120
186.27	16,264	59,601	186.79	17,162	68,292
186.28	16,281	59,764	186.80	17,179	68,463
186.29	16,299	59,926	186.81	17,196	68,635
186.30	16,316	60,090	186.82	17,213	68,807
186.31	16,333	60,253	186.83	17,231	68,979
186.32	16,350	60,416	186.84	17,248	69,152
186.33	16,368	60,580	186.85	17,265	69,324
186.34	16,385	60,744	186.86	17,282	69,497
186.35	16,402	60,908	186.87	17,300	69,670
186.36	16,419	61,072	186.88	17,317	69,843
186.37	16,437	61,236	186.89	17,334	70,016
186.38	16,454	61,400	186.90	17,351	70,190
186.39	16,471	61,565	186.91	17,369	70,363
186.40	16,488	61,730	186.92	17,386	70,537
186.41	16,506	61,895	186.93	17,403	70,711
186.42	16,523	62,060	186.94	17,420	70,885
186.43	16,540	62,225	186.95	17,438	71,059
186.44	16,557	62,391	186.96	17,455	71,234
186.45	16,575	62,556	186.97	17,472	71,409
186.46	16,592	62,722	186.98	17,489	71,583
186.47	16,609	62,888	186.99	17,507	71,758
186.48	16,626	63,054	187.00	17,524	71,934
186.49	16,644	63,221	187.01	17,542	72,109
186.50	16,661	63,387	187.02	17,560	72,284
186.51	16,678	63,554	187.03	17,578	72,460
186.52	16,696	63,721	187.04	17,595	72,636
186.53	16,713	63,888	187.05	17,613	72,812
186.54	16,730	64,055	187.06	17,631	72,988
186.55	16,747	64,222	187.07	17,649	73,165
186.56	16,765	64,390	187.08	17,667	73,341
186.57	16,782	64,558	187.09	17,685	73,518
186.58	16,799	64,726	187.10	17,703	73,695
186.59	16,816	64,894	187.11	17,720	73,872
186.60	16,834	65,062	187.12	17,738	74,049
186.61	16,851	65,230	187.13	17,756	74,227
186.62	16,868	65,399	187.14	17,774	74,404
186.63	16,885	65,568	187.15	17,792	74,582
186.64	16,903	65,737	187.16	17,810	74,760
186.65	16,920	65,906	187.17	17,828	74,938
186.66	16,937	66,075	187.18	17,845	75,117
186.67	16,954	66,245	187.19	17,863	75,295
186.68	16,972	66,414	187.20	17,881	75,474
186.69	16,989	66,584	187.21	17,899	75,653
186.70	17,006	66,754	187.22	17,917	75,832
186.71	17,023	66,924	187.23	17,935	76,011

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.24	17,953	76,191
187.25	17,971	76,370
187.26	17,988	76,550
187.27	18,006	76,730
187.28	18,024	76,910
187.29	18,042	77,091
187.30	18,060	77,271
187.31	18,078	77,452
187.32	18,096	77,633
187.33	18,113	77,814
187.34	18,131	77,995
187.35	18,149	78,176
187.36	18,167	78,358
187.37	18,185	78,540
187.38	18,203	78,722
187.39	18,221	78,904
187.40	18,238	79,086
187.41	18,256	79,268
187.42	18,274	79,451
187.43	18,292	79,634
187.44	18,310	79,817
187.45	18,328	80,000
187.46	18,346	80,183
187.47	18,363	80,367
187.48	18,381	80,551
187.49	18,399	80,735
187.50	18,417	80,919
187.51	18,435	81,103
187.52	18,453	81,287
187.53	18,471	81,472
187.54	18,488	81,657
187.55	18,506	81,842
187.56	18,524	82,027
187.57	18,542	82,212
187.58	18,560	82,398
187.59	18,578	82,584
187.60	18,596	82,769
187.61	18,613	82,955
187.62	18,631	83,142
187.63	18,649	83,328
187.64	18,667	83,515
187.65	18,685	83,701
187.66	18,703	83,888
187.67	18,721	84,075
187.68	18,738	84,263
187.69	18,756	84,450
187.70	18,774	84,638
187.71	18,792	84,826
187.72	18,810	85,014
187.73	18,828	85,202
187.74	18,846	85,390
187.75	18,864	85,579
187.76	18,881	85,768
187.77	18,899	85,956
187.78	18,917	86,146
187.79	18,935	86,335
187.80	18,953	86,524
187.81	18,971	86,714
187.82	18,989	86,904
187.83	19,006	87,094
187.84	19,024	87,284
187.85	19,042	87,474
187.86	19,060	87,665
187.87	19,078	87,855
187.88	19,096	88,046
187.89	19,114	88,237
187.90	19,131	88,428
187.91	19,149	88,620
187.92	19,167	88,811
187.93	19,185	89,003
187.94	19,203	89,195
187.95	19,221	89,387
187.96	19,239	89,580
187.97	19,256	89,772
187.98	19,274	89,965
187.99	19,292	90,157
188.00	**19,310**	**90,351**

Summary for Pond B-46B: Basin #46B

Inflow Area = 2.931 ac, 39.13% Impervious, Inflow Depth = 0.84" for Current 100 yr event
Inflow = 3.54 cfs @ 12.05 hrs, Volume= 0.205 af
Outflow = 0.09 cfs @ 15.67 hrs, Volume= 0.137 af, Atten= 98%, Lag= 217.4 min
Primary = 0.09 cfs @ 15.67 hrs, Volume= 0.137 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 184.21' @ 15.67 hrs Surf.Area= 11,345 sf Storage= 6,253 cf

Plug-Flow detention time= 660.2 min calculated for 0.137 af (67% of inflow)
Center-of-Mass det. time= 559.3 min (1,370.2 - 810.9)

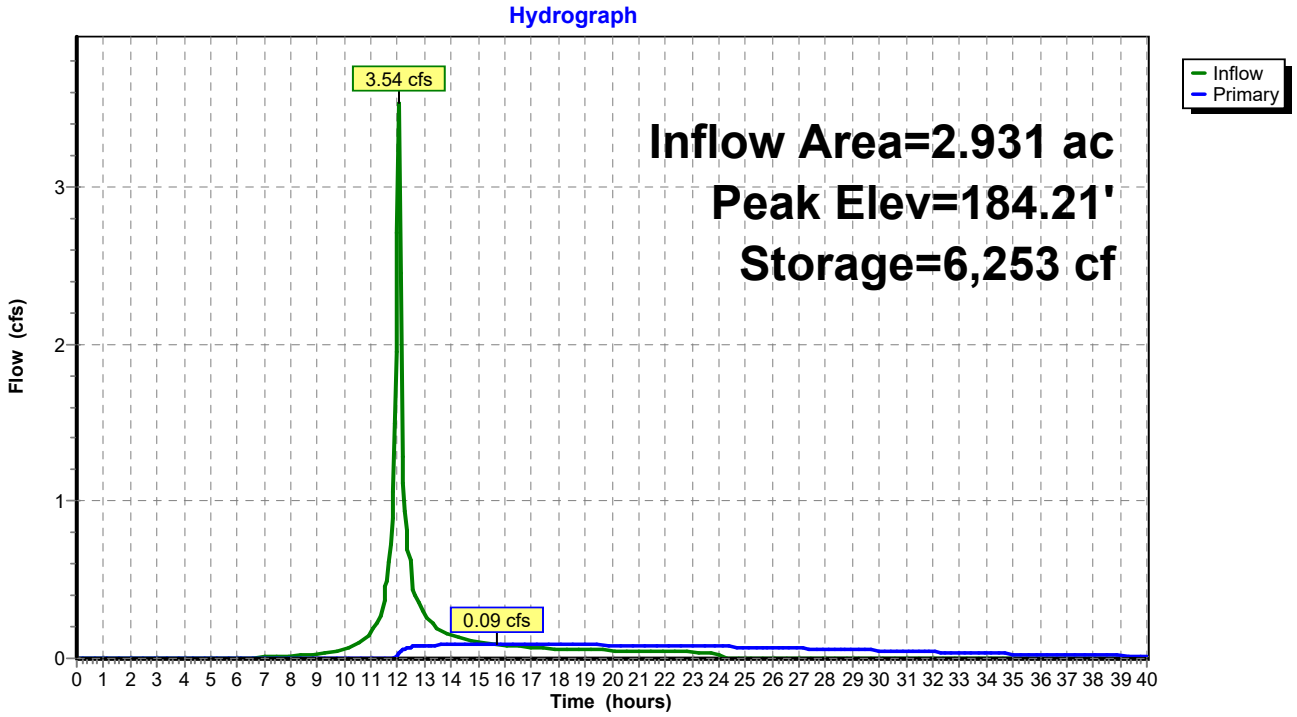
Volume	Invert	Avail.Storage	Storage Description
#1	183.30'	59,250 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
183.30	0	0	0
184.00	11,059	3,871	3,871
185.00	12,402	11,731	15,601
186.00	13,803	13,103	28,704
187.00	15,259	14,531	43,235
188.00	16,772	16,016	59,250

Device	Routing	Invert	Outlet Devices
#1	Primary	182.65'	**18.0" Round Culvert** L= 65.0' Ke= 0.500 Inlet / Outlet Invert= 182.65' / 176.00' S= 0.1023 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	183.82'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.45'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.75'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.09 cfs @ 15.67 hrs HW=184.21' (Free Discharge)
- **1=Culvert** (Passes 0.09 cfs of 7.67 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.09 cfs @ 2.59 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-46B: Basin #46B



Stage-Discharge for Pond B-46B: Basin #46B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.30	0.00	183.82	0.00	184.34	0.11	184.86	3.52
183.31	0.00	183.83	0.00	184.35	0.11	184.87	3.65
183.32	0.00	183.84	0.00	184.36	0.11	184.88	3.77
183.33	0.00	183.85	0.00	184.37	0.11	184.89	3.89
183.34	0.00	183.86	0.00	184.38	0.11	184.90	4.02
183.35	0.00	183.87	0.00	184.39	0.11	184.91	4.15
183.36	0.00	183.88	0.01	184.40	0.11	184.92	4.28
183.37	0.00	183.89	0.01	184.41	0.11	184.93	4.41
183.38	0.00	183.90	0.01	184.42	0.12	184.94	4.54
183.39	0.00	183.91	0.01	184.43	0.12	184.95	4.68
183.40	0.00	183.92	0.02	184.44	0.12	184.96	4.81
183.41	0.00	183.93	0.02	184.45	0.12	184.97	4.95
183.42	0.00	183.94	0.02	184.46	0.13	184.98	5.08
183.43	0.00	183.95	0.03	184.47	0.16	184.99	5.22
183.44	0.00	183.96	0.03	184.48	0.19	185.00	5.36
183.45	0.00	183.97	0.03	184.49	0.23	185.01	5.50
183.46	0.00	183.98	0.04	184.50	0.27	185.02	5.64
183.47	0.00	183.99	0.04	184.51	0.32	185.03	5.78
183.48	0.00	184.00	0.05	184.52	0.37	185.04	5.93
183.49	0.00	184.01	0.05	184.53	0.42	185.05	6.07
183.50	0.00	184.02	0.05	184.54	0.48	185.06	6.22
183.51	0.00	184.03	0.05	184.55	0.54	185.07	6.36
183.52	0.00	184.04	0.06	184.56	0.61	185.08	6.51
183.53	0.00	184.05	0.06	184.57	0.67	185.09	6.66
183.54	0.00	184.06	0.06	184.58	0.74	185.10	6.81
183.55	0.00	184.07	0.06	184.59	0.81	185.11	6.96
183.56	0.00	184.08	0.06	184.60	0.89	185.12	7.11
183.57	0.00	184.09	0.07	184.61	0.97	185.13	7.27
183.58	0.00	184.10	0.07	184.62	1.05	185.14	7.42
183.59	0.00	184.11	0.07	184.63	1.13	185.15	7.57
183.60	0.00	184.12	0.07	184.64	1.21	185.16	7.73
183.61	0.00	184.13	0.07	184.65	1.30	185.17	7.89
183.62	0.00	184.14	0.08	184.66	1.39	185.18	8.04
183.63	0.00	184.15	0.08	184.67	1.48	185.19	8.20
183.64	0.00	184.16	0.08	184.68	1.57	185.20	8.36
183.65	0.00	184.17	0.08	184.69	1.66	185.21	8.52
183.66	0.00	184.18	0.08	184.70	1.76	185.22	8.68
183.67	0.00	184.19	0.08	184.71	1.86	185.23	8.85
183.68	0.00	184.20	0.09	184.72	1.96	185.24	9.01
183.69	0.00	184.21	0.09	184.73	2.06	185.25	9.17
183.70	0.00	184.22	0.09	184.74	2.16	185.26	9.34
183.71	0.00	184.23	0.09	184.75	2.27	185.27	9.50
183.72	0.00	184.24	0.09	184.76	2.37	185.28	9.67
183.73	0.00	184.25	0.09	184.77	2.48	185.29	9.84
183.74	0.00	184.26	0.10	184.78	2.59	185.30	10.01
183.75	0.00	184.27	0.10	184.79	2.70	185.31	10.18
183.76	0.00	184.28	0.10	184.80	2.81	185.32	10.35
183.77	0.00	184.29	0.10	184.81	2.93	185.33	10.52
183.78	0.00	184.30	0.10	184.82	3.04	185.34	10.69
183.79	0.00	184.31	0.10	184.83	3.16	185.35	10.86
183.80	0.00	184.32	0.10	184.84	3.28	185.36	11.03
183.81	0.00	184.33	0.10	184.85	3.40	185.37	11.21

Stage-Discharge for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.38	11.38	185.90	20.30	186.42	91.01	186.94	198.59
185.39	11.56	185.91	21.03	186.43	92.75	186.95	200.94
185.40	11.74	185.92	21.78	186.44	94.51	186.96	203.32
185.41	11.91	185.93	22.55	186.45	96.28	186.97	205.72
185.42	12.09	185.94	23.34	186.46	98.06	186.98	208.13
185.43	12.12	185.95	24.15	186.47	99.86	186.99	210.55
185.44	12.15	185.96	25.03	186.48	101.66	187.00	212.98
185.45	12.18	185.97	25.92	186.49	103.49	187.01	215.43
185.46	12.21	185.98	26.85	186.50	105.32	187.02	217.88
185.47	12.24	185.99	27.80	186.51	107.16	187.03	220.34
185.48	12.27	186.00	28.77	186.52	109.02	187.04	222.82
185.49	12.30	186.01	29.77	186.53	110.89	187.05	225.30
185.50	12.33	186.02	30.80	186.54	112.77	187.06	227.79
185.51	12.36	186.03	31.85	186.55	114.67	187.07	230.30
185.52	12.39	186.04	32.92	186.56	116.61	187.08	232.82
185.53	12.42	186.05	34.02	186.57	118.57	187.09	235.34
185.54	12.45	186.06	35.14	186.58	120.54	187.10	237.88
185.55	12.48	186.07	36.29	186.59	122.52	187.11	240.42
185.56	12.51	186.08	37.46	186.60	124.52	187.12	242.98
185.57	12.53	186.09	38.66	186.61	126.53	187.13	245.55
185.58	12.56	186.10	39.88	186.62	128.55	187.14	248.13
185.59	12.59	186.11	41.12	186.63	130.58	187.15	250.71
185.60	12.62	186.12	42.39	186.64	132.63	187.16	253.36
185.61	12.65	186.13	43.68	186.65	134.69	187.17	256.01
185.62	12.68	186.14	45.00	186.66	136.77	187.18	258.67
185.63	12.71	186.15	46.34	186.67	138.85	187.19	261.35
185.64	12.73	186.16	47.73	186.68	140.95	187.20	264.04
185.65	12.76	186.17	49.15	186.69	143.07	187.21	266.74
185.66	12.79	186.18	50.59	186.70	145.19	187.22	269.45
185.67	12.82	186.19	52.06	186.71	147.33	187.23	272.17
185.68	12.85	186.20	53.56	186.72	149.48	187.24	274.90
185.69	12.88	186.21	55.08	186.73	151.64	187.25	277.64
185.70	12.90	186.22	56.63	186.74	153.82	187.26	280.39
185.71	12.93	186.23	58.20	186.75	156.01	187.27	283.16
185.72	12.96	186.24	59.80	186.76	158.15	187.28	285.93
185.73	12.99	186.25	61.43	186.77	160.31	187.29	288.72
185.74	13.02	186.26	63.08	186.78	162.48	187.30	291.52
185.75	13.04	186.27	64.76	186.79	164.66	187.31	294.32
185.76	13.19	186.28	66.47	186.80	166.85	187.32	297.14
185.77	13.43	186.29	68.20	186.81	169.05	187.33	299.97
185.78	13.74	186.30	69.96	186.82	171.26	187.34	302.81
185.79	14.09	186.31	71.75	186.83	173.48	187.35	305.67
185.80	14.49	186.32	73.56	186.84	175.71	187.36	308.53
185.81	14.93	186.33	75.40	186.85	177.95	187.37	311.40
185.82	15.41	186.34	77.27	186.86	180.21	187.38	314.29
185.83	15.92	186.35	79.16	186.87	182.47	187.39	317.18
185.84	16.46	186.36	80.82	186.88	184.74	187.40	320.09
185.85	17.04	186.37	82.48	186.89	187.03	187.41	323.00
185.86	17.64	186.38	84.16	186.90	189.32	187.42	325.93
185.87	18.26	186.39	85.85	186.91	191.62	187.43	328.87
185.88	18.92	186.40	87.56	186.92	193.94	187.44	331.82
185.89	19.60	186.41	89.27	186.93	196.26	187.45	334.78

Stage-Discharge for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Primary (cfs)
187.46	337.75
187.47	340.73
187.48	343.72
187.49	346.72
187.50	349.74
187.51	352.76
187.52	355.79
187.53	358.84
187.54	361.90
187.55	364.96
187.56	368.04
187.57	371.13
187.58	374.22
187.59	377.33
187.60	380.45
187.61	383.58
187.62	386.72
187.63	389.87
187.64	393.03
187.65	396.20
187.66	399.38
187.67	402.58
187.68	405.78
187.69	408.99
187.70	412.22
187.71	415.45
187.72	418.69
187.73	421.95
187.74	425.21
187.75	428.49
187.76	431.84
187.77	435.20
187.78	438.57
187.79	441.95
187.80	445.35
187.81	448.75
187.82	452.17
187.83	455.60
187.84	459.04
187.85	462.49
187.86	465.95
187.87	469.42
187.88	472.91
187.89	476.40
187.90	479.91
187.91	483.43
187.92	486.96
187.93	490.50
187.94	494.05
187.95	497.61
187.96	501.19
187.97	504.78
187.98	508.37
187.99	511.98
188.00	**515.60**

Stage-Area-Storage for Pond B-46B: Basin #46B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.30	0	0
183.31	158	1
183.32	316	3
183.33	474	7
183.34	632	13
183.35	790	20
183.36	948	28
183.37	1,106	39
183.38	1,264	51
183.39	1,422	64
183.40	1,580	79
183.41	1,738	96
183.42	1,896	114
183.43	2,054	133
183.44	2,212	155
183.45	2,370	178
183.46	2,528	202
183.47	2,686	228
183.48	2,844	256
183.49	3,002	285
183.50	3,160	316
183.51	3,318	348
183.52	3,476	382
183.53	3,634	418
183.54	3,792	455
183.55	3,950	494
183.56	4,108	534
183.57	4,266	576
183.58	4,424	619
183.59	4,582	664
183.60	4,740	711
183.61	4,898	759
183.62	5,056	809
183.63	5,214	860
183.64	5,372	913
183.65	5,530	968
183.66	5,687	1,024
183.67	5,845	1,081
183.68	6,003	1,141
183.69	6,161	1,201
183.70	6,319	1,264
183.71	6,477	1,328
183.72	6,635	1,393
183.73	6,793	1,461
183.74	6,951	1,529
183.75	7,109	1,600
183.76	7,267	1,671
183.77	7,425	1,745
183.78	7,583	1,820
183.79	7,741	1,897
183.80	7,899	1,975
183.81	8,057	2,055
183.82	8,215	2,136
183.83	8,373	2,219
183.84	8,531	2,303
183.85	8,689	2,390
183.86	8,847	2,477
183.87	9,005	2,566
183.88	9,163	2,657
183.89	9,321	2,750
183.90	9,479	2,844
183.91	9,637	2,939
183.92	9,795	3,036
183.93	9,953	3,135
183.94	10,111	3,236
183.95	10,269	3,337
183.96	10,427	3,441
183.97	10,585	3,546
183.98	10,743	3,653
183.99	10,901	3,761
184.00	11,059	3,871
184.01	11,072	3,981
184.02	11,086	4,092
184.03	11,099	4,203
184.04	11,113	4,314
184.05	11,126	4,425
184.06	11,140	4,537
184.07	11,153	4,648
184.08	11,166	4,760
184.09	11,180	4,871
184.10	11,193	4,983
184.11	11,207	5,095
184.12	11,220	5,207
184.13	11,234	5,320
184.14	11,247	5,432
184.15	11,260	5,545
184.16	11,274	5,657
184.17	11,287	5,770
184.18	11,301	5,883
184.19	11,314	5,996
184.20	11,328	6,109
184.21	11,341	6,223
184.22	11,354	6,336
184.23	11,368	6,450
184.24	11,381	6,563
184.25	11,395	6,677
184.26	11,408	6,791
184.27	11,422	6,906
184.28	11,435	7,020
184.29	11,448	7,134
184.30	11,462	7,249
184.31	11,475	7,363
184.32	11,489	7,478
184.33	11,502	7,593

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.34	11,516	7,708
184.35	11,529	7,824
184.36	11,542	7,939
184.37	11,556	8,054
184.38	11,569	8,170
184.39	11,583	8,286
184.40	11,596	8,402
184.41	11,610	8,518
184.42	11,623	8,634
184.43	11,636	8,750
184.44	11,650	8,867
184.45	11,663	8,983
184.46	11,677	9,100
184.47	11,690	9,217
184.48	11,704	9,334
184.49	11,717	9,451
184.50	11,731	9,568
184.51	11,744	9,685
184.52	11,757	9,803
184.53	11,771	9,921
184.54	11,784	10,038
184.55	11,798	10,156
184.56	11,811	10,274
184.57	11,825	10,392
184.58	11,838	10,511
184.59	11,851	10,629
184.60	11,865	10,748
184.61	11,878	10,867
184.62	11,892	10,985
184.63	11,905	11,104
184.64	11,919	11,223
184.65	11,932	11,343
184.66	11,945	11,462
184.67	11,959	11,582
184.68	11,972	11,701
184.69	11,986	11,821
184.70	11,999	11,941
184.71	12,013	12,061
184.72	12,026	12,181
184.73	12,039	12,302
184.74	12,053	12,422
184.75	12,066	12,543
184.76	12,080	12,663
184.77	12,093	12,784
184.78	12,107	12,905
184.79	12,120	13,026
184.80	12,133	13,148
184.81	12,147	13,269
184.82	12,160	13,391
184.83	12,174	13,512
184.84	12,187	13,634
184.85	12,201	13,756
184.86	12,214	13,878
184.87	12,227	14,000
184.88	12,241	14,123
184.89	12,254	14,245
184.90	12,268	14,368
184.91	12,281	14,490
184.92	12,295	14,613
184.93	12,308	14,736
184.94	12,321	14,859
184.95	12,335	14,983
184.96	12,348	15,106
184.97	12,362	15,230
184.98	12,375	15,353
184.99	12,389	15,477
185.00	12,402	15,601
185.01	12,416	15,725
185.02	12,430	15,849
185.03	12,444	15,974
185.04	12,458	16,098
185.05	12,472	16,223
185.06	12,486	16,348
185.07	12,500	16,473
185.08	12,514	16,598
185.09	12,528	16,723
185.10	12,542	16,848
185.11	12,556	16,974
185.12	12,570	17,099
185.13	12,584	17,225
185.14	12,598	17,351
185.15	12,612	17,477
185.16	12,626	17,603
185.17	12,640	17,730
185.18	12,654	17,856
185.19	12,668	17,983
185.20	12,682	18,110
185.21	12,696	18,236
185.22	12,710	18,363
185.23	12,724	18,491
185.24	12,738	18,618
185.25	12,752	18,745
185.26	12,766	18,873
185.27	12,780	19,001
185.28	12,794	19,129
185.29	12,808	19,257
185.30	12,822	19,385
185.31	12,836	19,513
185.32	12,850	19,642
185.33	12,864	19,770
185.34	12,878	19,899
185.35	12,892	20,028
185.36	12,906	20,157
185.37	12,920	20,286

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.38	12,934	20,415	185.90	13,663	27,330
185.39	12,948	20,544	185.91	13,677	27,467
185.40	12,962	20,674	185.92	13,691	27,604
185.41	12,976	20,804	185.93	13,705	27,741
185.42	12,990	20,934	185.94	13,719	27,878
185.43	13,004	21,064	185.95	13,733	28,015
185.44	13,018	21,194	185.96	13,747	28,153
185.45	13,032	21,324	185.97	13,761	28,290
185.46	13,046	21,454	185.98	13,775	28,428
185.47	13,060	21,585	185.99	13,789	28,566
185.48	13,074	21,716	186.00	13,803	28,704
185.49	13,088	21,846	186.01	13,818	28,842
185.50	13,103	21,977	186.02	13,832	28,980
185.51	13,117	22,108	186.03	13,847	29,118
185.52	13,131	22,240	186.04	13,861	29,257
185.53	13,145	22,371	186.05	13,876	29,396
185.54	13,159	22,502	186.06	13,890	29,534
185.55	13,173	22,634	186.07	13,905	29,673
185.56	13,187	22,766	186.08	13,919	29,813
185.57	13,201	22,898	186.09	13,934	29,952
185.58	13,215	23,030	186.10	13,949	30,091
185.59	13,229	23,162	186.11	13,963	30,231
185.60	13,243	23,295	186.12	13,978	30,370
185.61	13,257	23,427	186.13	13,992	30,510
185.62	13,271	23,560	186.14	14,007	30,650
185.63	13,285	23,692	186.15	14,021	30,790
185.64	13,299	23,825	186.16	14,036	30,931
185.65	13,313	23,958	186.17	14,051	31,071
185.66	13,327	24,092	186.18	14,065	31,212
185.67	13,341	24,225	186.19	14,080	31,353
185.68	13,355	24,358	186.20	14,094	31,493
185.69	13,369	24,492	186.21	14,109	31,634
185.70	13,383	24,626	186.22	14,123	31,776
185.71	13,397	24,760	186.23	14,138	31,917
185.72	13,411	24,894	186.24	14,152	32,058
185.73	13,425	25,028	186.25	14,167	32,200
185.74	13,439	25,162	186.26	14,182	32,342
185.75	13,453	25,297	186.27	14,196	32,484
185.76	13,467	25,431	186.28	14,211	32,626
185.77	13,481	25,566	186.29	14,225	32,768
185.78	13,495	25,701	186.30	14,240	32,910
185.79	13,509	25,836	186.31	14,254	33,053
185.80	13,523	25,971	186.32	14,269	33,195
185.81	13,537	26,106	186.33	14,283	33,338
185.82	13,551	26,242	186.34	14,298	33,481
185.83	13,565	26,377	186.35	14,313	33,624
185.84	13,579	26,513	186.36	14,327	33,767
185.85	13,593	26,649	186.37	14,342	33,910
185.86	13,607	26,785	186.38	14,356	34,054
185.87	13,621	26,921	186.39	14,371	34,198
185.88	13,635	27,057	186.40	14,385	34,341
185.89	13,649	27,194	186.41	14,400	34,485

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.42	14,415	34,629
186.43	14,429	34,774
186.44	14,444	34,918
186.45	14,458	35,062
186.46	14,473	35,207
186.47	14,487	35,352
186.48	14,502	35,497
186.49	14,516	35,642
186.50	14,531	35,787
186.51	14,546	35,933
186.52	14,560	36,078
186.53	14,575	36,224
186.54	14,589	36,370
186.55	14,604	36,516
186.56	14,618	36,662
186.57	14,633	36,808
186.58	14,647	36,954
186.59	14,662	37,101
186.60	14,677	37,248
186.61	14,691	37,394
186.62	14,706	37,541
186.63	14,720	37,688
186.64	14,735	37,836
186.65	14,749	37,983
186.66	14,764	38,131
186.67	14,779	38,278
186.68	14,793	38,426
186.69	14,808	38,574
186.70	14,822	38,722
186.71	14,837	38,871
186.72	14,851	39,019
186.73	14,866	39,168
186.74	14,880	39,317
186.75	14,895	39,465
186.76	14,910	39,614
186.77	14,924	39,764
186.78	14,939	39,913
186.79	14,953	40,062
186.80	14,968	40,212
186.81	14,982	40,362
186.82	14,997	40,512
186.83	15,011	40,662
186.84	15,026	40,812
186.85	15,041	40,962
186.86	15,055	41,113
186.87	15,070	41,263
186.88	15,084	41,414
186.89	15,099	41,565
186.90	15,113	41,716
186.91	15,128	41,867
186.92	15,143	42,019
186.93	15,157	42,170
186.94	15,172	42,322
186.95	15,186	42,474
186.96	15,201	42,625
186.97	15,215	42,778
186.98	15,230	42,930
186.99	15,244	43,082
187.00	15,259	43,235
187.01	15,274	43,387
187.02	15,289	43,540
187.03	15,304	43,693
187.04	15,320	43,846
187.05	15,335	43,999
187.06	15,350	44,153
187.07	15,365	44,306
187.08	15,380	44,460
187.09	15,395	44,614
187.10	15,410	44,768
187.11	15,425	44,922
187.12	15,441	45,077
187.13	15,456	45,231
187.14	15,471	45,386
187.15	15,486	45,541
187.16	15,501	45,695
187.17	15,516	45,851
187.18	15,531	46,006
187.19	15,546	46,161
187.20	15,562	46,317
187.21	15,577	46,472
187.22	15,592	46,628
187.23	15,607	46,784
187.24	15,622	46,940
187.25	15,637	47,097
187.26	15,652	47,253
187.27	15,668	47,410
187.28	15,683	47,566
187.29	15,698	47,723
187.30	15,713	47,880
187.31	15,728	48,038
187.32	15,743	48,195
187.33	15,758	48,353
187.34	15,773	48,510
187.35	15,789	48,668
187.36	15,804	48,826
187.37	15,819	48,984
187.38	15,834	49,142
187.39	15,849	49,301
187.40	15,864	49,459
187.41	15,879	49,618
187.42	15,894	49,777
187.43	15,910	49,936
187.44	15,925	50,095
187.45	15,940	50,254

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.46	15,955	50,414
187.47	15,970	50,573
187.48	15,985	50,733
187.49	16,000	50,893
187.50	16,016	51,053
187.51	16,031	51,214
187.52	16,046	51,374
187.53	16,061	51,534
187.54	16,076	51,695
187.55	16,091	51,856
187.56	16,106	52,017
187.57	16,121	52,178
187.58	16,137	52,339
187.59	16,152	52,501
187.60	16,167	52,662
187.61	16,182	52,824
187.62	16,197	52,986
187.63	16,212	53,148
187.64	16,227	53,310
187.65	16,242	53,473
187.66	16,258	53,635
187.67	16,273	53,798
187.68	16,288	53,961
187.69	16,303	54,124
187.70	16,318	54,287
187.71	16,333	54,450
187.72	16,348	54,613
187.73	16,363	54,777
187.74	16,379	54,941
187.75	16,394	55,104
187.76	16,409	55,268
187.77	16,424	55,433
187.78	16,439	55,597
187.79	16,454	55,761
187.80	16,469	55,926
187.81	16,485	56,091
187.82	16,500	56,256
187.83	16,515	56,421
187.84	16,530	56,586
187.85	16,545	56,751
187.86	16,560	56,917
187.87	16,575	57,083
187.88	16,590	57,248
187.89	16,606	57,414
187.90	16,621	57,581
187.91	16,636	57,747
187.92	16,651	57,913
187.93	16,666	58,080
187.94	16,681	58,247
187.95	16,696	58,413
187.96	16,711	58,580
187.97	16,727	58,748
187.98	16,742	58,915
187.99	16,757	59,083
188.00	**16,772**	**59,250**

Summary for Pond B-47: Basin #47

Inflow Area = 2.436 ac, 30.62% Impervious, Inflow Depth = 6.34" for Current 100 yr event
Inflow = 15.96 cfs @ 12.17 hrs, Volume= 1.288 af
Outflow = 4.12 cfs @ 12.54 hrs, Volume= 0.986 af, Atten= 74%, Lag= 22.4 min
Primary = 4.12 cfs @ 12.54 hrs, Volume= 0.986 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 189.98' @ 12.54 hrs Surf.Area= 23,208 sf Storage= 29,216 cf

Plug-Flow detention time= 354.9 min calculated for 0.984 af (76% of inflow)
Center-of-Mass det. time= 268.3 min (1,058.0 - 789.7)

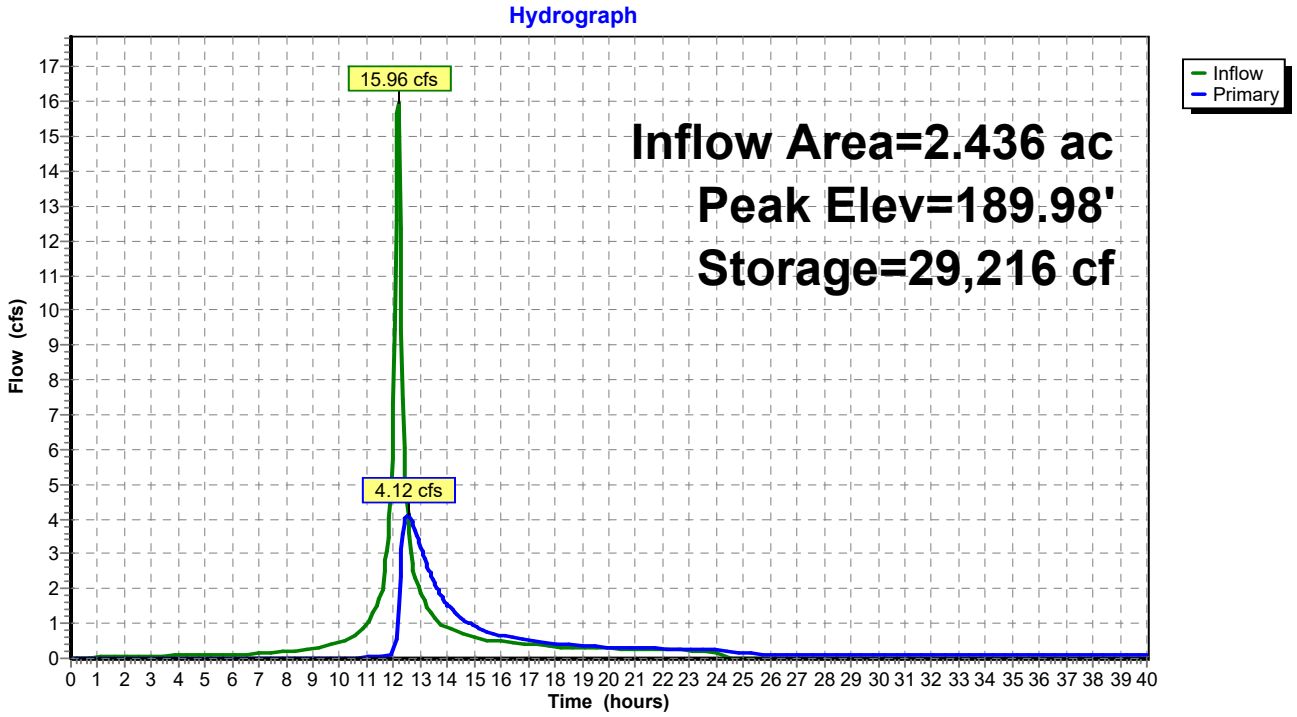
Volume	Invert	Avail.Storage	Storage Description
#1	188.30'	80,305 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
188.30	0	0	0
189.00	21,318	7,461	7,461
190.00	23,252	22,285	29,746
191.00	25,242	24,247	53,993
192.00	27,382	26,312	80,305

Device	Routing	Invert	Outlet Devices
#1	Primary	187.65'	**18.0" Round Culvert** L= 62.0' Ke= 0.500 Inlet / Outlet Invert= 187.65' / 184.00' S= 0.0589 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	188.84'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	189.52'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	190.51'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=4.12 cfs @ 12.54 hrs HW=189.98' (Free Discharge)
- **1=Culvert** (Passes 4.12 cfs of 10.69 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.17 cfs @ 4.89 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 3.95 cfs @ 2.21 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-47: Basin #47



Stage-Discharge for Pond B-47: Basin #47

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
188.30	0.00	188.82	0.00	189.34	0.10	189.86	2.71
188.31	0.00	188.83	0.00	189.35	0.10	189.87	2.82
188.32	0.00	188.84	0.00	189.36	0.11	189.88	2.93
188.33	0.00	188.85	0.00	189.37	0.11	189.89	3.05
188.34	0.00	188.86	0.00	189.38	0.11	189.90	3.17
188.35	0.00	188.87	0.00	189.39	0.11	189.91	3.28
188.36	0.00	188.88	0.00	189.40	0.11	189.92	3.40
188.37	0.00	188.89	0.00	189.41	0.11	189.93	3.53
188.38	0.00	188.90	0.01	189.42	0.11	189.94	3.65
188.39	0.00	188.91	0.01	189.43	0.11	189.95	3.77
188.40	0.00	188.92	0.01	189.44	0.12	189.96	3.90
188.41	0.00	188.93	0.01	189.45	0.12	189.97	4.03
188.42	0.00	188.94	0.02	189.46	0.12	189.98	4.15
188.43	0.00	188.95	0.02	189.47	0.12	189.99	4.28
188.44	0.00	188.96	0.02	189.48	0.12	190.00	4.41
188.45	0.00	188.97	0.03	189.49	0.12	190.01	4.55
188.46	0.00	188.98	0.03	189.50	0.12	190.02	4.68
188.47	0.00	188.99	0.03	189.51	0.12	190.03	4.81
188.48	0.00	189.00	0.04	189.52	0.12	190.04	4.95
188.49	0.00	189.01	0.04	189.53	0.14	190.05	5.09
188.50	0.00	189.02	0.05	189.54	0.16	190.06	5.22
188.51	0.00	189.03	0.05	189.55	0.20	190.07	5.36
188.52	0.00	189.04	0.05	189.56	0.23	190.08	5.50
188.53	0.00	189.05	0.05	189.57	0.28	190.09	5.64
188.54	0.00	189.06	0.06	189.58	0.32	190.10	5.79
188.55	0.00	189.07	0.06	189.59	0.37	190.11	5.93
188.56	0.00	189.08	0.06	189.60	0.43	190.12	6.07
188.57	0.00	189.09	0.06	189.61	0.49	190.13	6.22
188.58	0.00	189.10	0.06	189.62	0.55	190.14	6.37
188.59	0.00	189.11	0.07	189.63	0.61	190.15	6.51
188.60	0.00	189.12	0.07	189.64	0.68	190.16	6.66
188.61	0.00	189.13	0.07	189.65	0.75	190.17	6.81
188.62	0.00	189.14	0.07	189.66	0.82	190.18	6.96
188.63	0.00	189.15	0.07	189.67	0.89	190.19	7.12
188.64	0.00	189.16	0.08	189.68	0.97	190.20	7.27
188.65	0.00	189.17	0.08	189.69	1.05	190.21	7.42
188.66	0.00	189.18	0.08	189.70	1.13	190.22	7.58
188.67	0.00	189.19	0.08	189.71	1.22	190.23	7.73
188.68	0.00	189.20	0.08	189.72	1.30	190.24	7.89
188.69	0.00	189.21	0.08	189.73	1.39	190.25	8.05
188.70	0.00	189.22	0.09	189.74	1.48	190.26	8.21
188.71	0.00	189.23	0.09	189.75	1.57	190.27	8.37
188.72	0.00	189.24	0.09	189.76	1.67	190.28	8.53
188.73	0.00	189.25	0.09	189.77	1.76	190.29	8.69
188.74	0.00	189.26	0.09	189.78	1.86	190.30	8.85
188.75	0.00	189.27	0.09	189.79	1.96	190.31	9.01
188.76	0.00	189.28	0.10	189.80	2.06	190.32	9.18
188.77	0.00	189.29	0.10	189.81	2.17	190.33	9.34
188.78	0.00	189.30	0.10	189.82	2.27	190.34	9.51
188.79	0.00	189.31	0.10	189.83	2.38	190.35	9.67
188.80	0.00	189.32	0.10	189.84	2.49	190.36	9.84
188.81	0.00	189.33	0.10	189.85	2.59	190.37	10.01

Stage-Discharge for Pond B-47: Basin #47 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.38	10.18	190.90	44.37	191.42	136.19	191.94	258.14
190.39	10.35	190.91	45.71	191.43	138.28	191.95	260.82
190.40	10.52	190.92	47.10	191.44	140.38	191.96	263.51
190.41	10.69	190.93	48.52	191.45	142.49	191.97	266.20
190.42	10.86	190.94	49.97	191.46	144.62	191.98	268.91
190.43	11.04	190.95	51.44	191.47	146.76	191.99	271.64
190.44	11.21	190.96	52.93	191.48	148.91	192.00	**274.37**
190.45	11.39	190.97	54.46	191.49	151.07		
190.46	11.56	190.98	56.01	191.50	153.25		
190.47	11.74	190.99	57.58	191.51	155.44		
190.48	11.92	191.00	59.18	191.52	157.59		
190.49	12.09	191.01	60.81	191.53	159.74		
190.50	12.27	191.02	62.47	191.54	161.91		
190.51	12.36	191.03	64.15	191.55	164.09		
190.52	12.51	191.04	65.85	191.56	166.28		
190.53	12.75	191.05	67.59	191.57	168.49		
190.54	13.06	191.06	69.35	191.58	170.70		
190.55	13.41	191.07	71.14	191.59	172.92		
190.56	13.82	191.08	72.95	191.60	175.15		
190.57	14.26	191.09	74.79	191.61	177.39		
190.58	14.74	191.10	76.66	191.62	179.65		
190.59	15.25	191.11	78.56	191.63	181.91		
190.60	15.79	191.12	80.21	191.64	184.18		
190.61	16.37	191.13	81.88	191.65	186.47		
190.62	16.97	191.14	83.55	191.66	188.76		
190.63	17.60	191.15	85.25	191.67	191.07		
190.64	18.25	191.16	86.95	191.68	193.38		
190.65	18.93	191.17	88.67	191.69	195.71		
190.66	19.64	191.18	90.41	191.70	198.04		
190.67	20.37	191.19	92.15	191.71	200.38		
190.68	21.12	191.20	93.91	191.72	202.77		
190.69	21.89	191.21	95.68	191.73	205.17		
190.70	22.68	191.22	97.47	191.74	207.58		
190.71	23.50	191.23	99.26	191.75	210.01		
190.72	24.37	191.24	101.07	191.76	212.44		
190.73	25.27	191.25	102.89	191.77	214.88		
190.74	26.20	191.26	104.73	191.78	217.33		
190.75	27.15	191.27	106.57	191.79	219.80		
190.76	28.12	191.28	108.43	191.80	222.27		
190.77	29.13	191.29	110.30	191.81	224.76		
190.78	30.15	191.30	112.18	191.82	227.25		
190.79	31.20	191.31	114.08	191.83	229.76		
190.80	32.28	191.32	116.02	191.84	232.27		
190.81	33.38	191.33	117.98	191.85	234.80		
190.82	34.50	191.34	119.95	191.86	237.34		
190.83	35.65	191.35	121.94	191.87	239.88		
190.84	36.82	191.36	123.93	191.88	242.44		
190.85	38.02	191.37	125.94	191.89	245.01		
190.86	39.24	191.38	127.97	191.90	247.59		
190.87	40.49	191.39	130.00	191.91	250.18		
190.88	41.76	191.40	132.05	191.92	252.82		
190.89	43.05	191.41	134.12	191.93	255.48		

Stage-Area-Storage for Pond B-47: Basin #47

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
188.30	0	0	188.82	15,836	4,117
188.31	305	2	188.83	16,141	4,277
188.32	609	6	188.84	16,445	4,440
188.33	914	14	188.85	16,750	4,606
188.34	1,218	24	188.86	17,054	4,775
188.35	1,523	38	188.87	17,359	4,947
188.36	1,827	55	188.88	17,663	5,122
188.37	2,132	75	188.89	17,968	5,301
188.38	2,436	97	188.90	18,273	5,482
188.39	2,741	123	188.91	18,577	5,666
188.40	3,045	152	188.92	18,882	5,853
188.41	3,350	184	188.93	19,186	6,044
188.42	3,655	219	188.94	19,491	6,237
188.43	3,959	257	188.95	19,795	6,433
188.44	4,264	298	188.96	20,100	6,633
188.45	4,568	343	188.97	20,404	6,835
188.46	4,873	390	188.98	20,709	7,041
188.47	5,177	440	188.99	21,013	7,250
188.48	5,482	493	189.00	21,318	7,461
188.49	5,786	550	189.01	21,337	7,675
188.50	6,091	609	189.02	21,357	7,888
188.51	6,395	672	189.03	21,376	8,102
188.52	6,700	737	189.04	21,395	8,316
188.53	7,004	806	189.05	21,415	8,530
188.54	7,309	877	189.06	21,434	8,744
188.55	7,614	952	189.07	21,453	8,958
188.56	7,918	1,029	189.08	21,473	9,173
188.57	8,223	1,110	189.09	21,492	9,388
188.58	8,527	1,194	189.10	21,511	9,603
188.59	8,832	1,281	189.11	21,531	9,818
188.60	9,136	1,370	189.12	21,550	10,033
188.61	9,441	1,463	189.13	21,569	10,249
188.62	9,745	1,559	189.14	21,589	10,465
188.63	10,050	1,658	189.15	21,608	10,681
188.64	10,354	1,760	189.16	21,627	10,897
188.65	10,659	1,865	189.17	21,647	11,113
188.66	10,964	1,973	189.18	21,666	11,330
188.67	11,268	2,085	189.19	21,685	11,547
188.68	11,573	2,199	189.20	21,705	11,764
188.69	11,877	2,316	189.21	21,724	11,981
188.70	12,182	2,436	189.22	21,743	12,198
188.71	12,486	2,560	189.23	21,763	12,416
188.72	12,791	2,686	189.24	21,782	12,633
188.73	13,095	2,815	189.25	21,802	12,851
188.74	13,400	2,948	189.26	21,821	13,069
188.75	13,704	3,083	189.27	21,840	13,288
188.76	14,009	3,222	189.28	21,860	13,506
188.77	14,314	3,364	189.29	21,879	13,725
188.78	14,618	3,508	189.30	21,898	13,944
188.79	14,923	3,656	189.31	21,918	14,163
188.80	15,227	3,807	189.32	21,937	14,382
188.81	15,532	3,961	189.33	21,956	14,602

Stage-Area-Storage for Pond B-47: Basin #47 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
189.34	21,976	14,821	189.86	22,981	26,510
189.35	21,995	15,041	189.87	23,001	26,740
189.36	22,014	15,261	189.88	23,020	26,970
189.37	22,034	15,481	189.89	23,039	27,200
189.38	22,053	15,702	189.90	23,059	27,431
189.39	22,072	15,922	189.91	23,078	27,661
189.40	22,092	16,143	189.92	23,097	27,892
189.41	22,111	16,364	189.93	23,117	28,123
189.42	22,130	16,585	189.94	23,136	28,355
189.43	22,150	16,807	189.95	23,155	28,586
189.44	22,169	17,028	189.96	23,175	28,818
189.45	22,188	17,250	189.97	23,194	29,050
189.46	22,208	17,472	189.98	23,213	29,282
189.47	22,227	17,694	189.99	23,233	29,514
189.48	22,246	17,917	190.00	23,252	29,746
189.49	22,266	18,139	190.01	23,272	29,979
189.50	22,285	18,362	190.02	23,292	30,212
189.51	22,304	18,585	190.03	23,312	30,445
189.52	22,324	18,808	190.04	23,332	30,678
189.53	22,343	19,031	190.05	23,352	30,911
189.54	22,362	19,255	190.06	23,371	31,145
189.55	22,382	19,479	190.07	23,391	31,379
189.56	22,401	19,703	190.08	23,411	31,613
189.57	22,420	19,927	190.09	23,431	31,847
189.58	22,440	20,151	190.10	23,451	32,081
189.59	22,459	20,376	190.11	23,471	32,316
189.60	22,478	20,600	190.12	23,491	32,551
189.61	22,498	20,825	190.13	23,511	32,786
189.62	22,517	21,050	190.14	23,531	33,021
189.63	22,536	21,275	190.15	23,551	33,256
189.64	22,556	21,501	190.16	23,570	33,492
189.65	22,575	21,727	190.17	23,590	33,728
189.66	22,594	21,952	190.18	23,610	33,964
189.67	22,614	22,178	190.19	23,630	34,200
189.68	22,633	22,405	190.20	23,650	34,437
189.69	22,652	22,631	190.21	23,670	34,673
189.70	22,672	22,858	190.22	23,690	34,910
189.71	22,691	23,085	190.23	23,710	35,147
189.72	22,710	23,312	190.24	23,730	35,384
189.73	22,730	23,539	190.25	23,750	35,621
189.74	22,749	23,766	190.26	23,769	35,859
189.75	22,769	23,994	190.27	23,789	36,097
189.76	22,788	24,222	190.28	23,809	36,335
189.77	22,807	24,449	190.29	23,829	36,573
189.78	22,827	24,678	190.30	23,849	36,811
189.79	22,846	24,906	190.31	23,869	37,050
189.80	22,865	25,135	190.32	23,889	37,289
189.81	22,885	25,363	190.33	23,909	37,528
189.82	22,904	25,592	190.34	23,929	37,767
189.83	22,923	25,821	190.35	23,949	38,006
189.84	22,943	26,051	190.36	23,968	38,246
189.85	22,962	26,280	190.37	23,988	38,486

Stage-Area-Storage for Pond B-47: Basin #47 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.38	24,008	38,726
190.39	24,028	38,966
190.40	24,048	39,206
190.41	24,068	39,447
190.42	24,088	39,688
190.43	24,108	39,929
190.44	24,128	40,170
190.45	24,148	40,411
190.46	24,167	40,653
190.47	24,187	40,895
190.48	24,207	41,137
190.49	24,227	41,379
190.50	24,247	41,621
190.51	24,267	41,864
190.52	24,287	42,106
190.53	24,307	42,349
190.54	24,327	42,593
190.55	24,347	42,836
190.56	24,366	43,079
190.57	24,386	43,323
190.58	24,406	43,567
190.59	24,426	43,811
190.60	24,446	44,056
190.61	24,466	44,300
190.62	24,486	44,545
190.63	24,506	44,790
190.64	24,526	45,035
190.65	24,546	45,280
190.66	24,565	45,526
190.67	24,585	45,772
190.68	24,605	46,018
190.69	24,625	46,264
190.70	24,645	46,510
190.71	24,665	46,757
190.72	24,685	47,004
190.73	24,705	47,250
190.74	24,725	47,498
190.75	24,745	47,745
190.76	24,764	47,993
190.77	24,784	48,240
190.78	24,804	48,488
190.79	24,824	48,736
190.80	24,844	48,985
190.81	24,864	49,233
190.82	24,884	49,482
190.83	24,904	49,731
190.84	24,924	49,980
190.85	24,944	50,229
190.86	24,963	50,479
190.87	24,983	50,729
190.88	25,003	50,979
190.89	25,023	51,229
190.90	25,043	51,479
190.91	25,063	51,730
190.92	25,083	51,980
190.93	25,103	52,231
190.94	25,123	52,482
190.95	25,143	52,734
190.96	25,162	52,985
190.97	25,182	53,237
190.98	25,202	53,489
190.99	25,222	53,741
191.00	25,242	53,993
191.01	25,263	54,246
191.02	25,285	54,499
191.03	25,306	54,752
191.04	25,328	55,005
191.05	25,349	55,258
191.06	25,370	55,512
191.07	25,392	55,765
191.08	25,413	56,020
191.09	25,435	56,274
191.10	25,456	56,528
191.11	25,477	56,783
191.12	25,499	57,038
191.13	25,520	57,293
191.14	25,542	57,548
191.15	25,563	57,804
191.16	25,584	58,059
191.17	25,606	58,315
191.18	25,627	58,572
191.19	25,649	58,828
191.20	25,670	59,085
191.21	25,691	59,341
191.22	25,713	59,598
191.23	25,734	59,856
191.24	25,756	60,113
191.25	25,777	60,371
191.26	25,798	60,629
191.27	25,820	60,887
191.28	25,841	61,145
191.29	25,863	61,403
191.30	25,884	61,662
191.31	25,905	61,921
191.32	25,927	62,180
191.33	25,948	62,440
191.34	25,970	62,699
191.35	25,991	62,959
191.36	26,012	63,219
191.37	26,034	63,479
191.38	26,055	63,740
191.39	26,077	64,000
191.40	26,098	64,261
191.41	26,119	64,522

Stage-Area-Storage for Pond B-47: Basin #47 (continued)

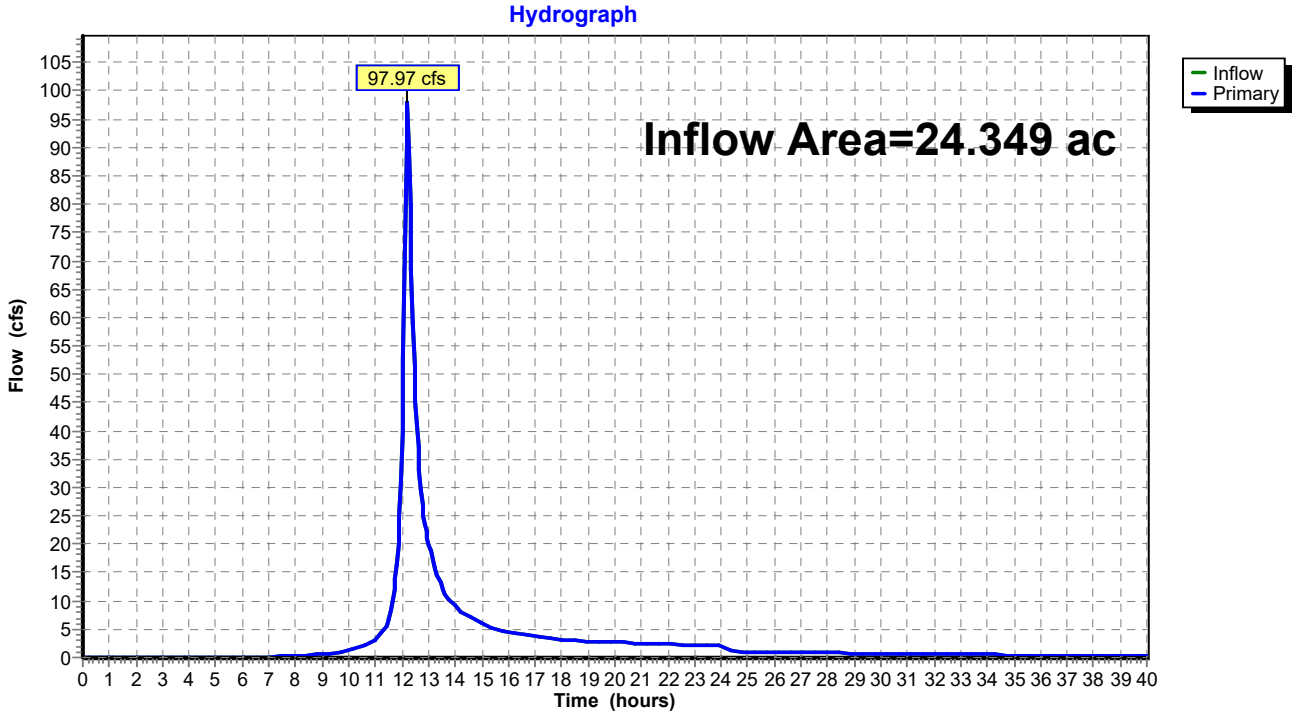
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.42	26,141	64,784
191.43	26,162	65,045
191.44	26,184	65,307
191.45	26,205	65,569
191.46	26,226	65,831
191.47	26,248	66,093
191.48	26,269	66,356
191.49	26,291	66,619
191.50	26,312	66,882
191.51	26,333	67,145
191.52	26,355	67,408
191.53	26,376	67,672
191.54	26,398	67,936
191.55	26,419	68,200
191.56	26,440	68,464
191.57	26,462	68,729
191.58	26,483	68,994
191.59	26,505	69,259
191.60	26,526	69,524
191.61	26,547	69,789
191.62	26,569	70,055
191.63	26,590	70,320
191.64	26,612	70,586
191.65	26,633	70,853
191.66	26,654	71,119
191.67	26,676	71,386
191.68	26,697	71,653
191.69	26,719	71,920
191.70	26,740	72,187
191.71	26,761	72,455
191.72	26,783	72,722
191.73	26,804	72,990
191.74	26,826	73,258
191.75	26,847	73,527
191.76	26,868	73,795
191.77	26,890	74,064
191.78	26,911	74,333
191.79	26,933	74,602
191.80	26,954	74,872
191.81	26,975	75,141
191.82	26,997	75,411
191.83	27,018	75,681
191.84	27,040	75,952
191.85	27,061	76,222
191.86	27,082	76,493
191.87	27,104	76,764
191.88	27,125	77,035
191.89	27,147	77,306
191.90	27,168	77,578
191.91	27,189	77,850
191.92	27,211	78,122
191.93	27,232	78,394
191.94	27,254	78,666
191.95	27,275	78,939
191.96	27,296	79,212
191.97	27,318	79,485
191.98	27,339	79,758
191.99	27,361	80,032
192.00	**27,382**	**80,305**

Summary for Link PDA-4: Proposed Drainage Area #4

Inflow Area = 24.349 ac, 23.20% Impervious, Inflow Depth > 4.98" for Current 100 yr event
Inflow = 97.97 cfs @ 12.20 hrs, Volume= 10.105 af
Primary = 97.97 cfs @ 12.20 hrs, Volume= 10.105 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-4: Proposed Drainage Area #4



Summary for Subcatchment 41I: PDA-41 (impervious)

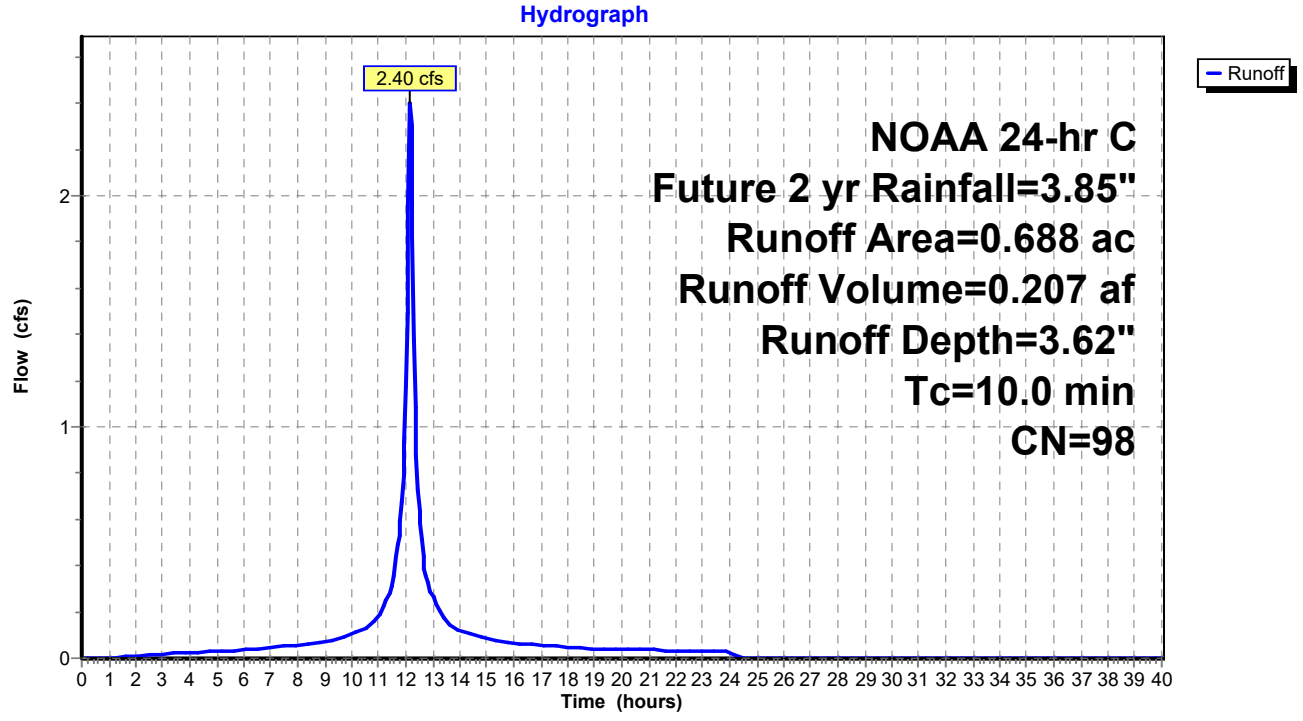
Runoff = 2.40 cfs @ 12.17 hrs, Volume= 0.207 af, Depth= 3.62"
Routed to Pond B-41 : Basin #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

	Area (ac)	CN	Description
*	0.136	98	Pavement, HSG C
*	0.514	98	Roof, HSG C
*	0.038	98	Concrete, HSC C
	0.688	98	Weighted Average
	0.688		100.00% Impervious Area

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

Subcatchment 41I: PDA-41 (impervious)



Summary for Subcatchment 41P: PDA-41 (pervious)

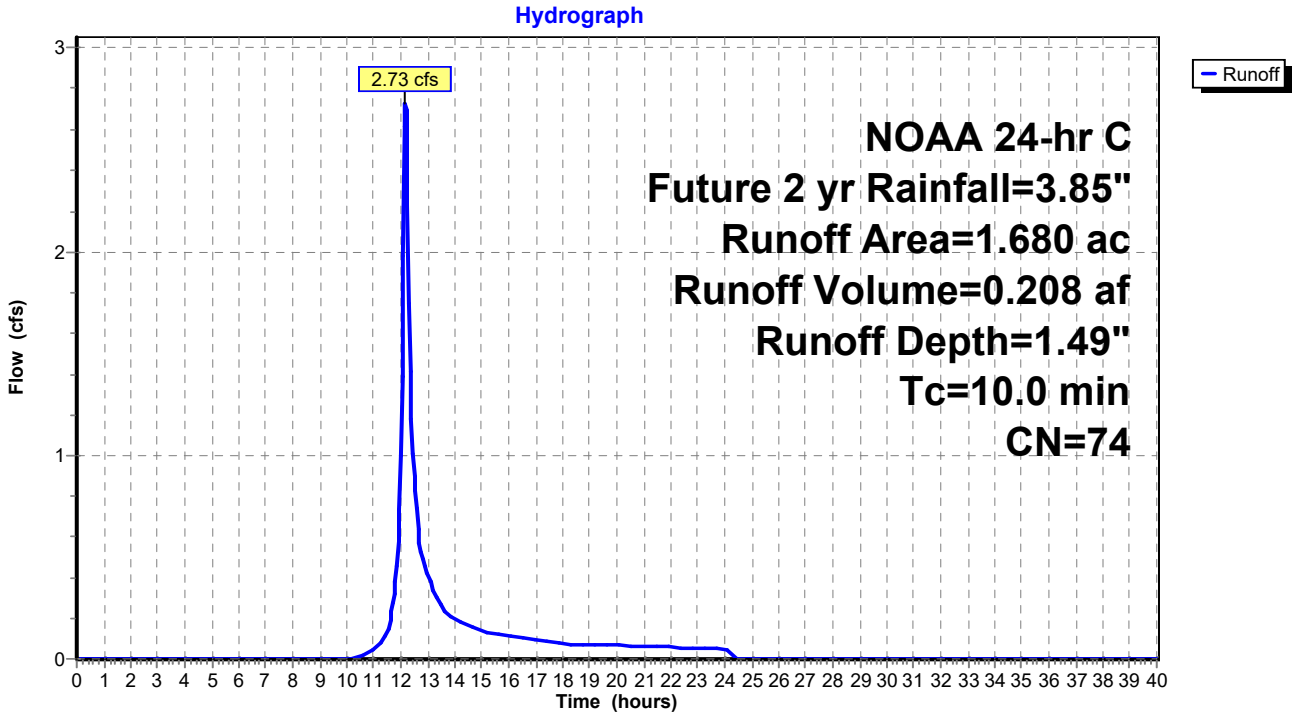
Runoff = 2.73 cfs @ 12.18 hrs, Volume= 0.208 af, Depth= 1.49"
Routed to Pond B-41 : Basin #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.680	74	>75% Grass cover, Good, HSG C
1.680		100.00% Pervious Area

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

Subcatchment 41P: PDA-41 (pervious)



Summary for Subcatchment 42l: PDA-42 (impervious)

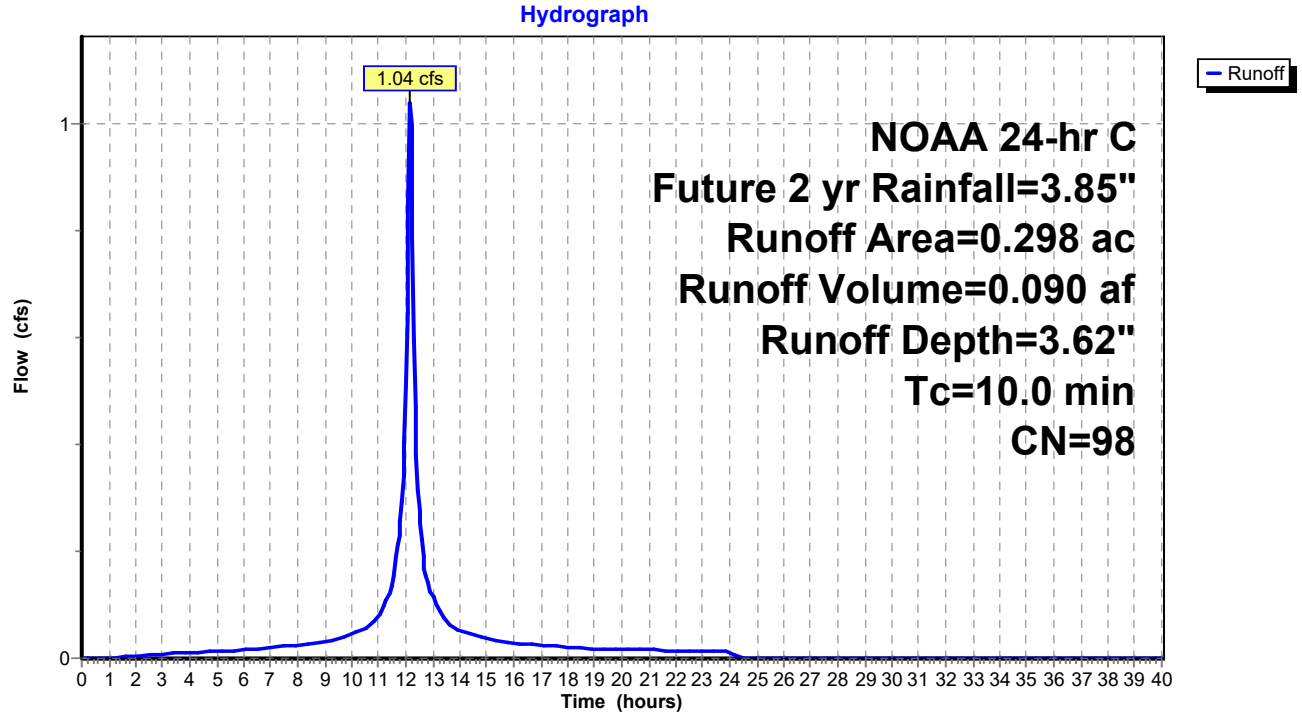
Runoff = 1.04 cfs @ 12.17 hrs, Volume= 0.090 af, Depth= 3.62"
Routed to Pond B-42 : Basin #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

	Area (ac)	CN	Description
*	0.000	98	Pavement, HSG C
*	0.298	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.298	98	Weighted Average
	0.298		100.00% Impervious Area

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

Subcatchment 42l: PDA-42 (impervious)



Summary for Subcatchment 42P: PDA-42 (pervious)

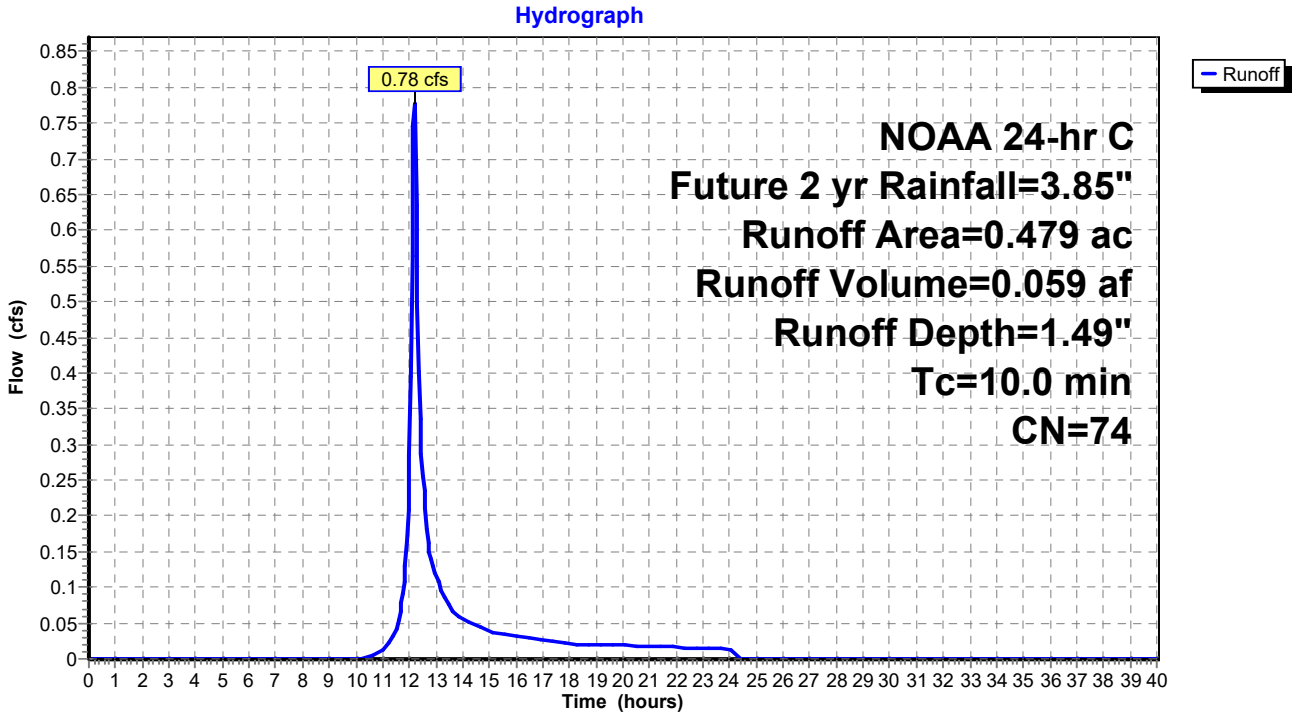
Runoff = 0.78 cfs @ 12.18 hrs, Volume= 0.059 af, Depth= 1.49"
Routed to Pond B-42 : Basin #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.479	74	>75% Grass cover, Good, HSG C
0.479		100.00% Pervious Area

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

Subcatchment 42P: PDA-42 (pervious)



Summary for Subcatchment 43I: PDA-43 (impervious)

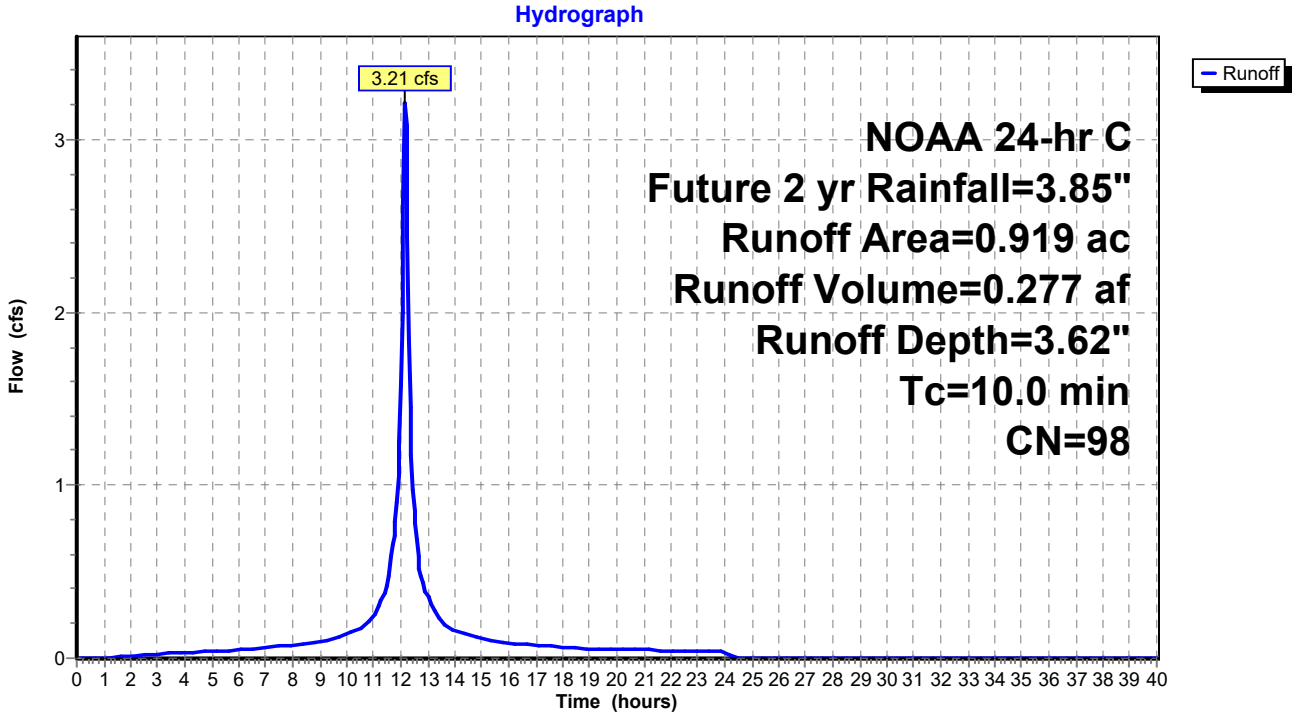
Runoff = 3.21 cfs @ 12.17 hrs, Volume= 0.277 af, Depth= 3.62"
Routed to Pond B-43 : Basin #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

	Area (ac)	CN	Description
*	0.326	98	Pavement, HSG C
*	0.522	98	Roof, HSG C
*	0.071	98	Concrete, HSC C
	0.919	98	Weighted Average
	0.919		100.00% Impervious Area

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

Subcatchment 43I: PDA-43 (impervious)



Summary for Subcatchment 43P: PDA-43 (pervious)

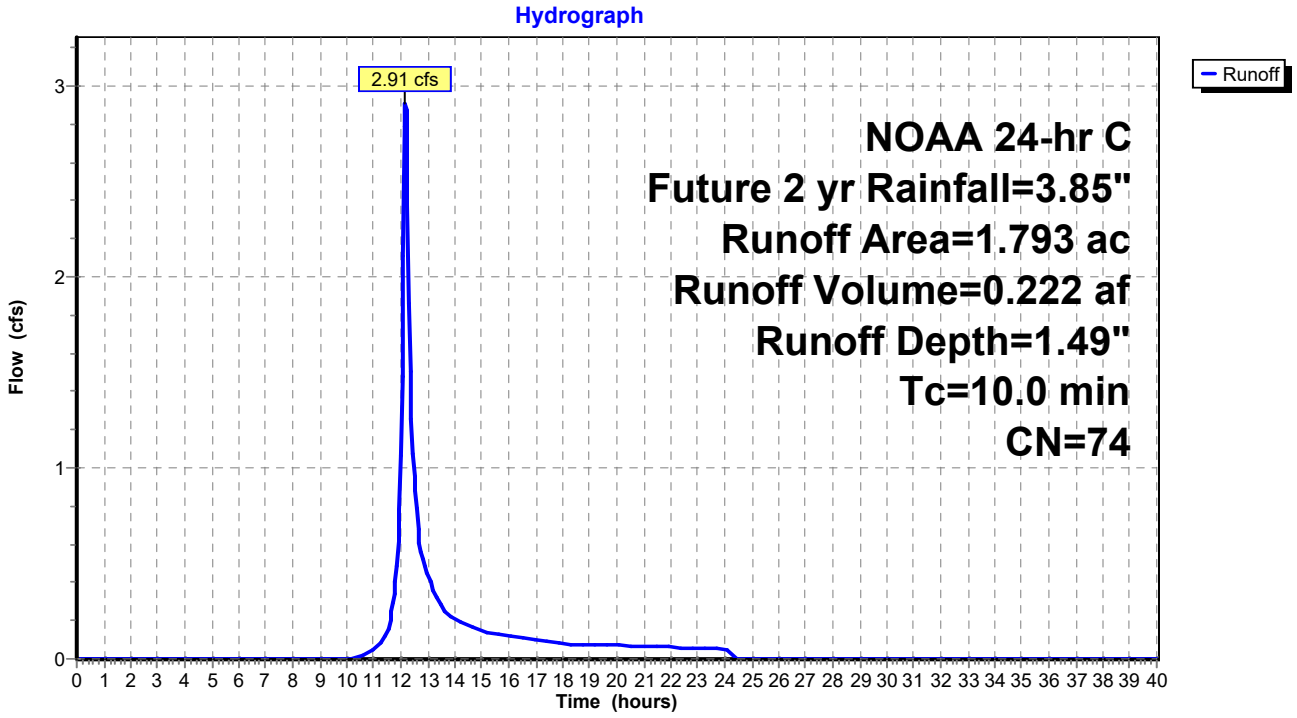
Runoff = 2.91 cfs @ 12.18 hrs, Volume= 0.222 af, Depth= 1.49"
Routed to Pond B-43 : Basin #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.793	74	>75% Grass cover, Good, HSG C
1.793		100.00% Pervious Area

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

Subcatchment 43P: PDA-43 (pervious)



Summary for Subcatchment 44I: PDA-44 (impervious)

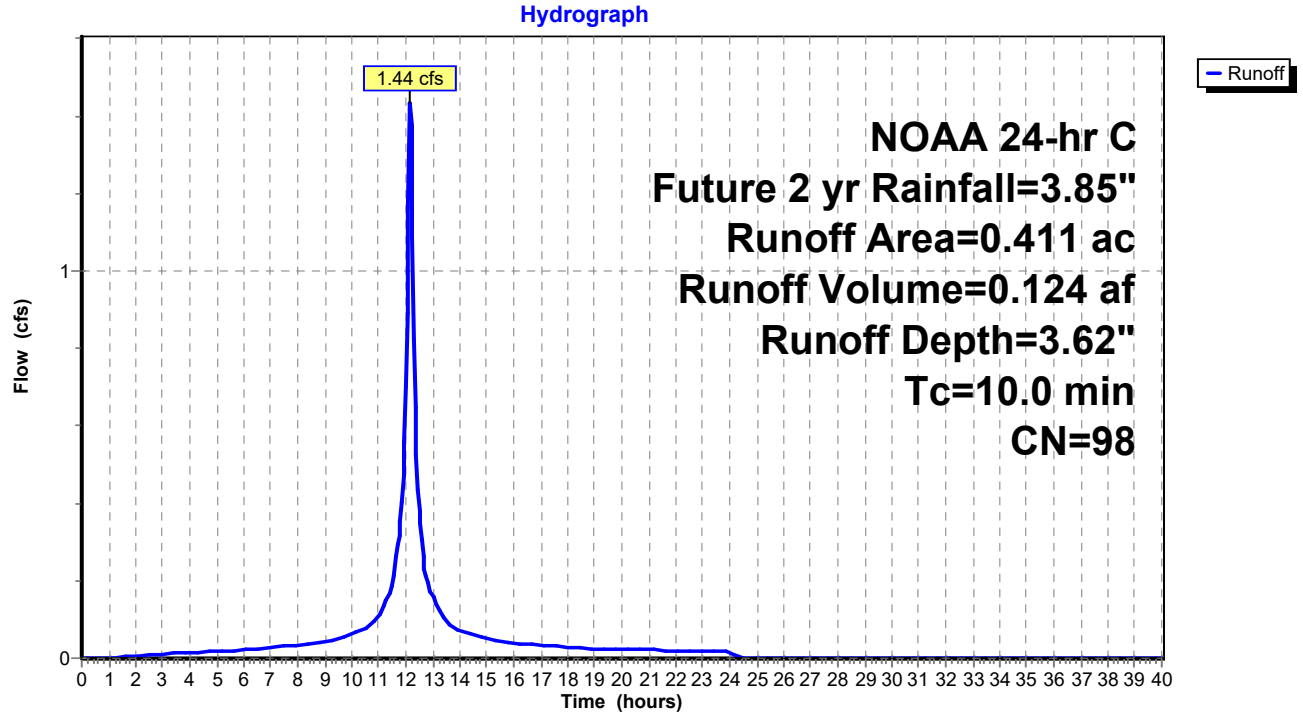
Runoff = 1.44 cfs @ 12.17 hrs, Volume= 0.124 af, Depth= 3.62"
Routed to Pond B-44 : Basin #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

	Area (ac)	CN	Description
*	0.283	98	Pavement, HSG C
*	0.104	98	Roof, HSG C
*	0.024	98	Concrete, HSC C
	0.411	98	Weighted Average
	0.411		100.00% Impervious Area

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

Subcatchment 44I: PDA-44 (impervious)



Summary for Subcatchment 44P: PDA-44 (pervious)

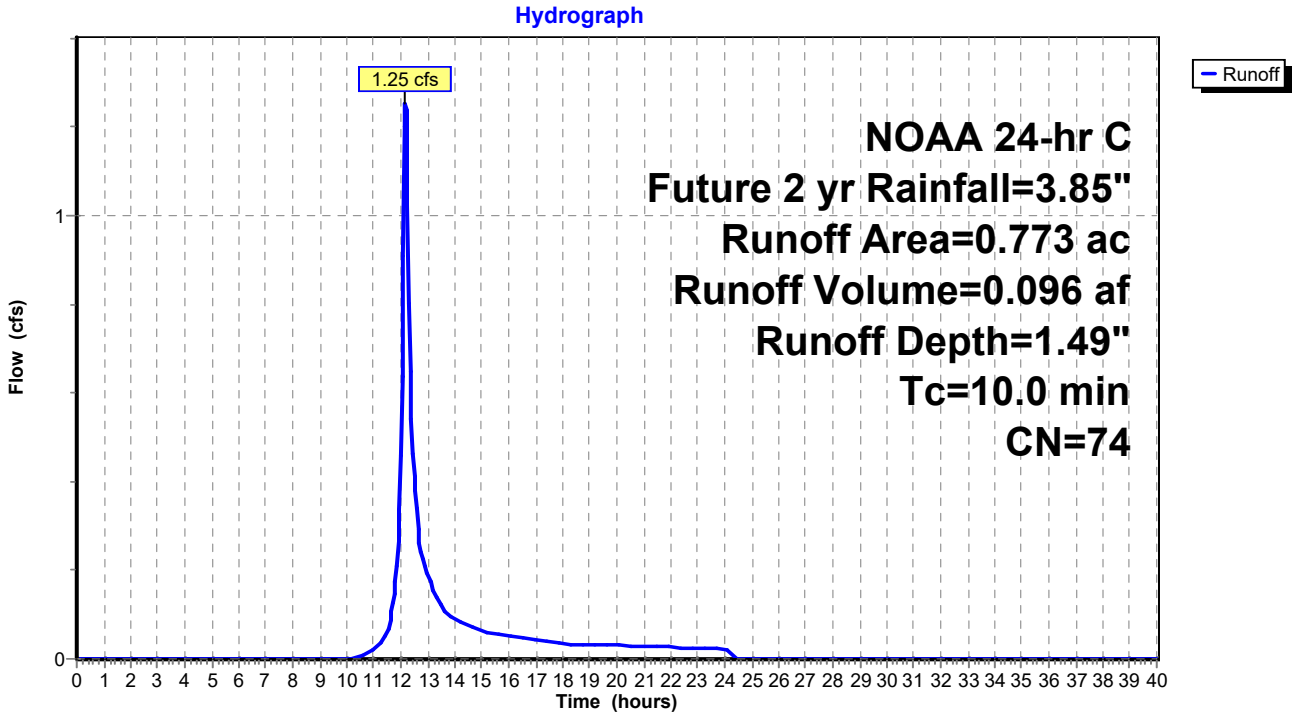
Runoff = 1.25 cfs @ 12.18 hrs, Volume= 0.096 af, Depth= 1.49"
Routed to Pond B-44 : Basin #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.773	74	>75% Grass cover, Good, HSG C
0.773		100.00% Pervious Area

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

Subcatchment 44P: PDA-44 (pervious)



Summary for Subcatchment 45l: PDA-45 (impervious)

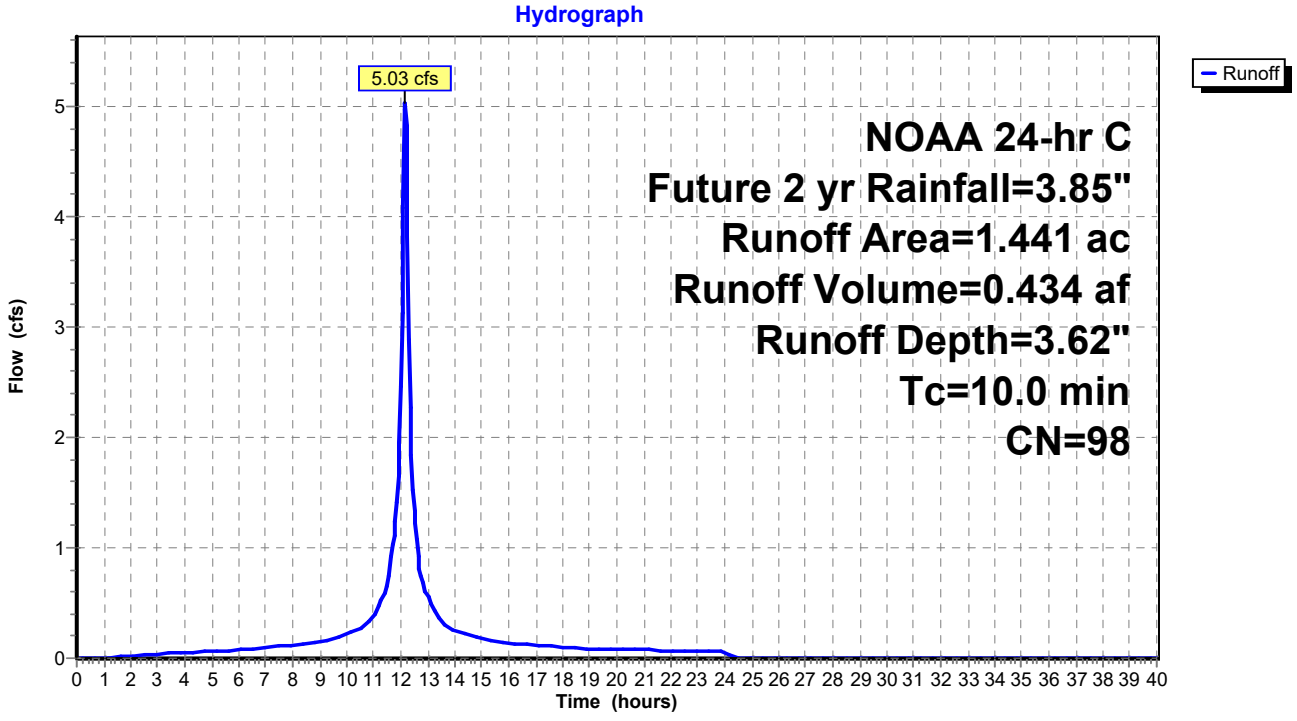
Runoff = 5.03 cfs @ 12.17 hrs, Volume= 0.434 af, Depth= 3.62"
Routed to Pond B-45 : Basin #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

	Area (ac)	CN	Description
*	0.394	98	Pavement, HSG C
*	1.045	98	Roof, HSG C
*	0.002	98	Concrete, HSG C
	1.441	98	Weighted Average
	1.441		100.00% Impervious Area

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

Subcatchment 45l: PDA-45 (impervious)



Summary for Subcatchment 45P: PDA-45 (pervious)

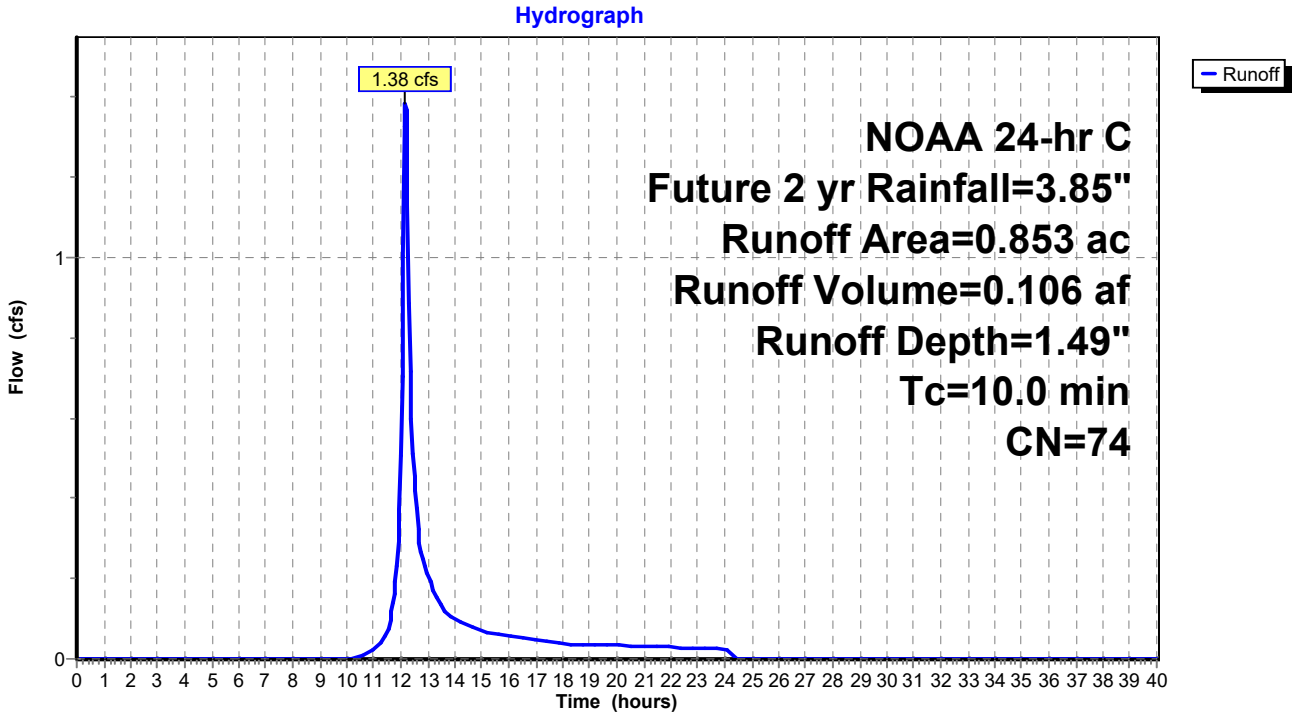
Runoff = 1.38 cfs @ 12.18 hrs, Volume= 0.106 af, Depth= 1.49"
Routed to Pond B-45 : Basin #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.853	74	>75% Grass cover, Good, HSG C
0.853		100.00% Pervious Area

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

Subcatchment 45P: PDA-45 (pervious)



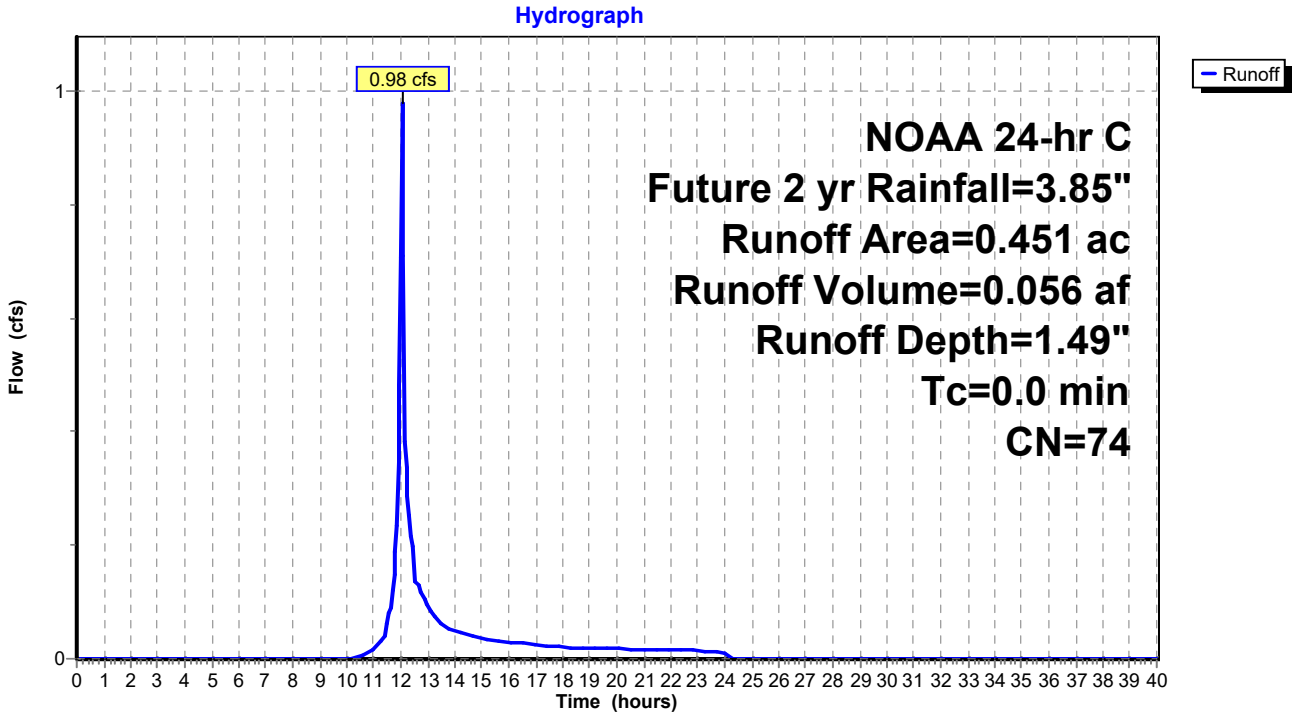
Summary for Subcatchment 46BP: PDA-46B (pervious)

Runoff = 0.98 cfs @ 12.05 hrs, Volume= 0.056 af, Depth= 1.49"
Routed to Pond B-46B : Basin #46B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.451	74	>75% Grass cover, Good, HSG C
0.451		100.00% Pervious Area

Subcatchment 46BP: PDA-46B (pervious)



Summary for Subcatchment 46I: PDA-46 (impervious)

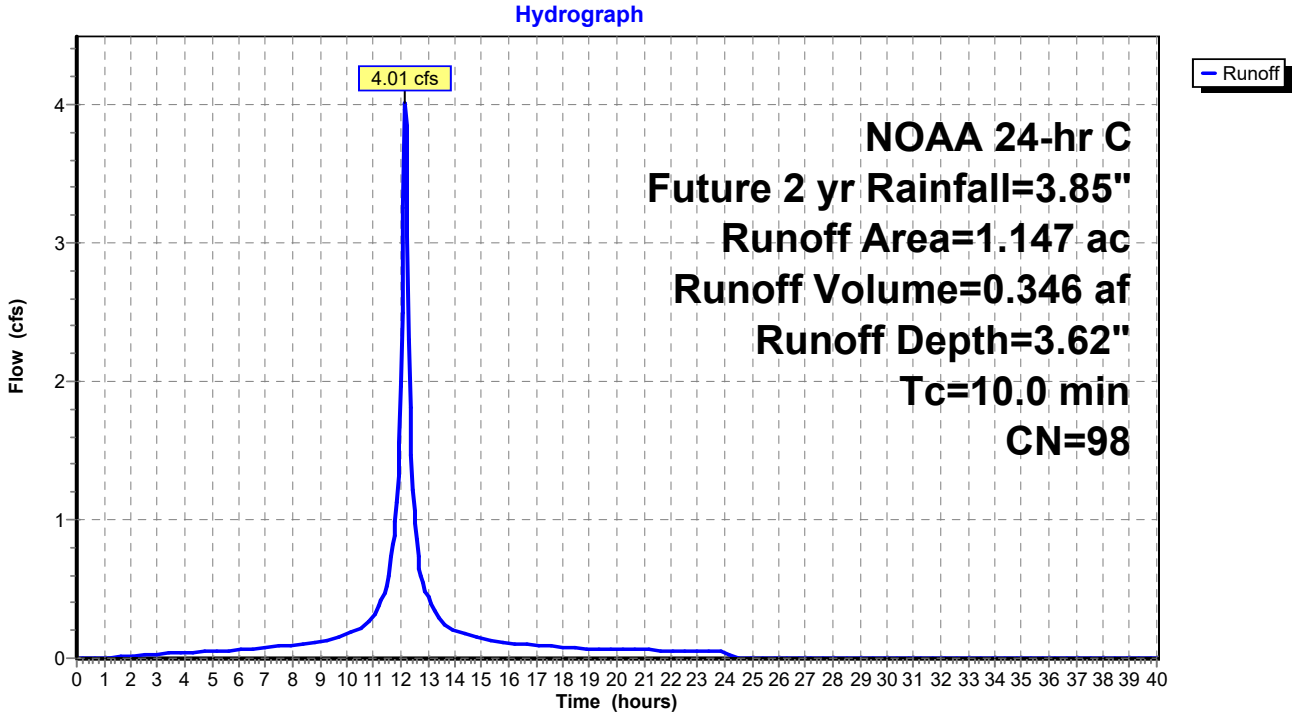
Runoff = 4.01 cfs @ 12.17 hrs, Volume= 0.346 af, Depth= 3.62"
Routed to Pond B-46A : Basin #46A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

	Area (ac)	CN	Description
*	0.430	98	Pavement, HSG C
*	0.653	98	Roof, HSG C
*	0.064	98	Concrete, HSG C
	1.147	98	Weighted Average
	1.147		100.00% Impervious Area

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

Subcatchment 46I: PDA-46 (impervious)



Summary for Subcatchment 46P: PDA-46 (pervious)

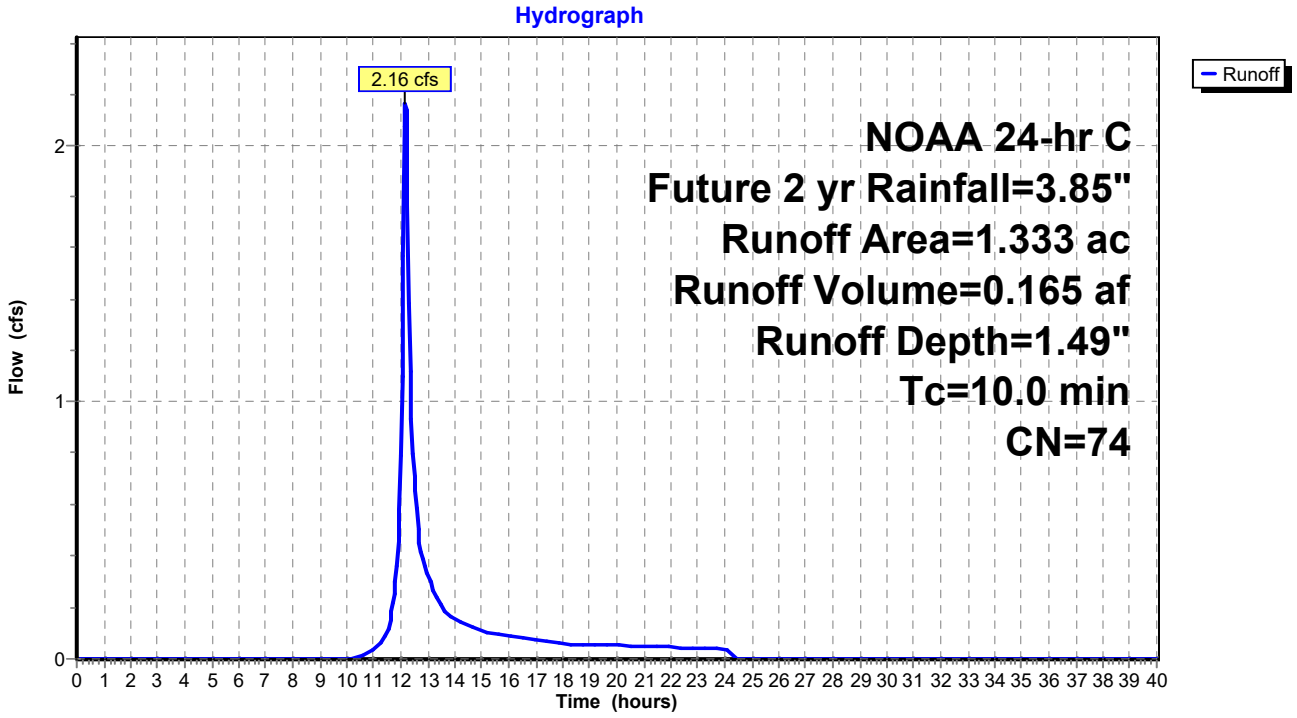
Runoff = 2.16 cfs @ 12.18 hrs, Volume= 0.165 af, Depth= 1.49"
Routed to Pond B-46A : Basin #46A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.333	74	>75% Grass cover, Good, HSG C
1.333		100.00% Pervious Area

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

Subcatchment 46P: PDA-46 (pervious)



Summary for Subcatchment 47l: PDA-47 (impervious)

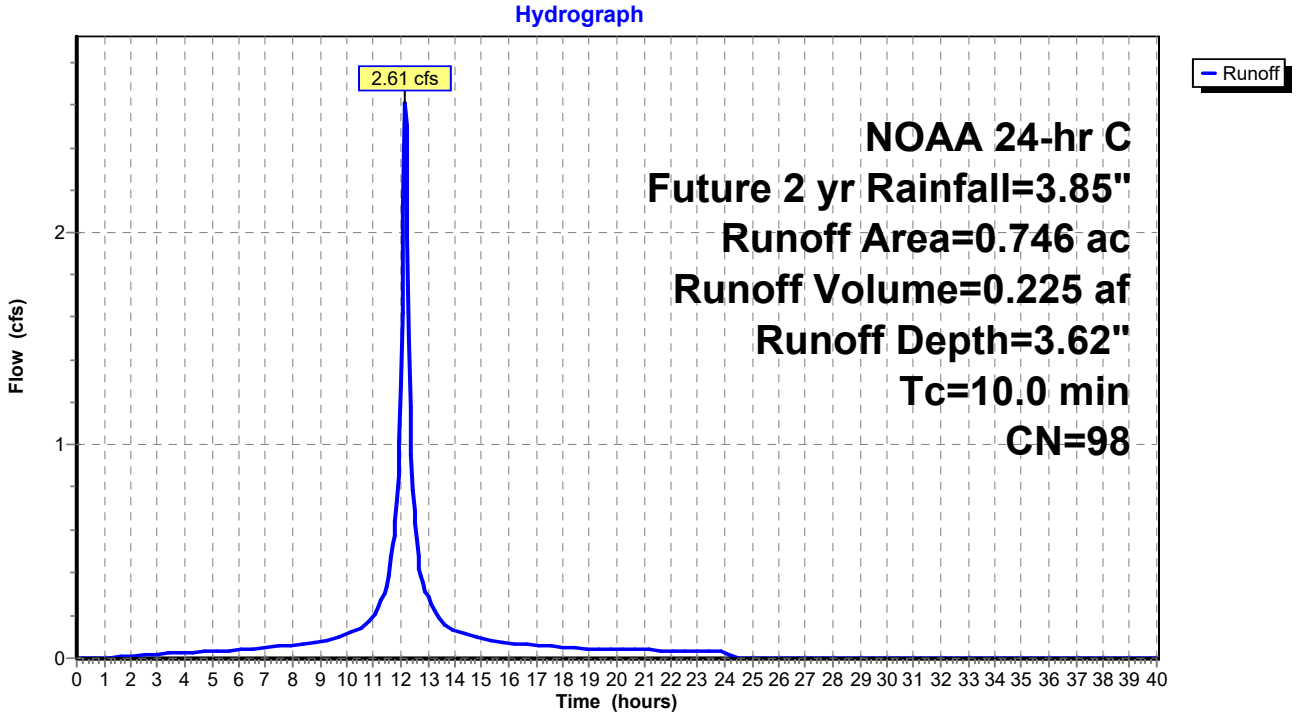
Runoff = 2.61 cfs @ 12.17 hrs, Volume= 0.225 af, Depth= 3.62"
Routed to Pond B-47 : Basin #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

	Area (ac)	CN	Description
*	0.244	98	Pavement, HSG C
*	0.484	98	Roof, HSG C
*	0.018	98	Concrete, HSG C
	0.746	98	Weighted Average
	0.746		100.00% Impervious Area

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

Subcatchment 47l: PDA-47 (impervious)



Summary for Subcatchment 47P: PDA-47 (pervious)

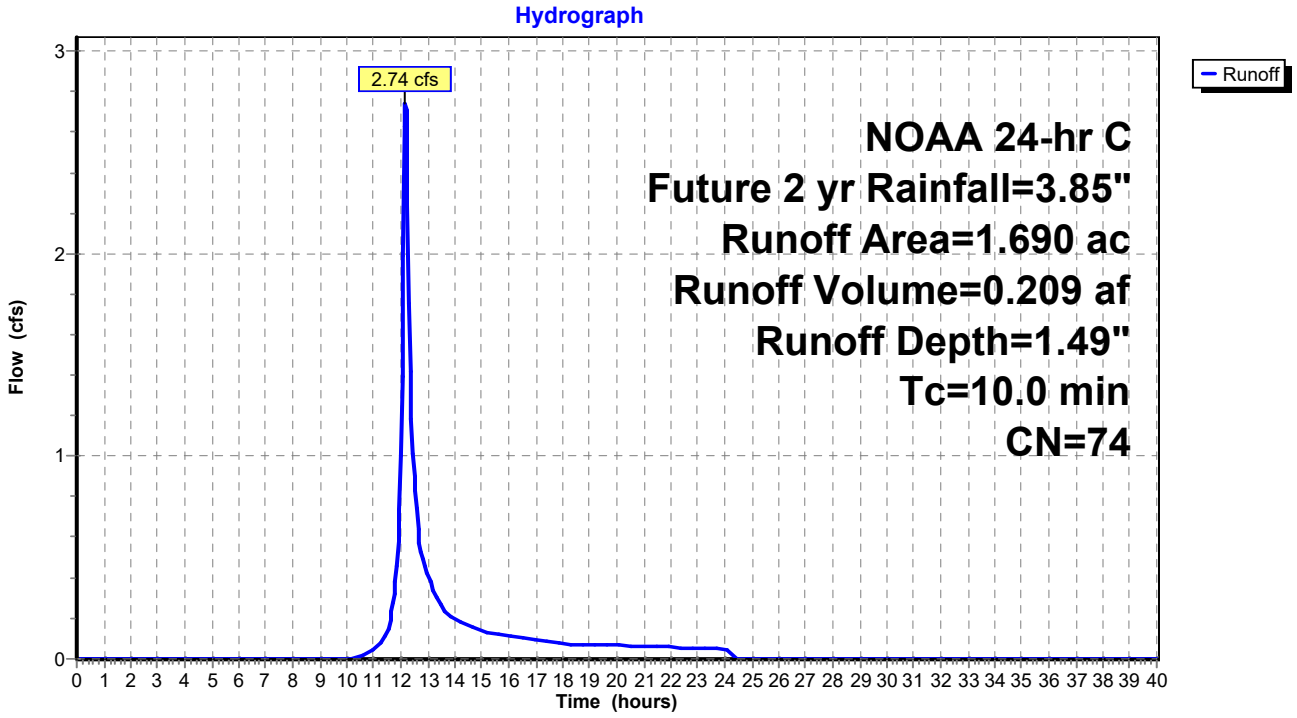
Runoff = 2.74 cfs @ 12.18 hrs, Volume= 0.209 af, Depth= 1.49"
Routed to Pond B-47 : Basin #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.690	74	>75% Grass cover, Good, HSG C
1.690		100.00% Pervious Area

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

Subcatchment 47P: PDA-47 (pervious)



Summary for Subcatchment UPDA-4: PDA-4 (undetained)

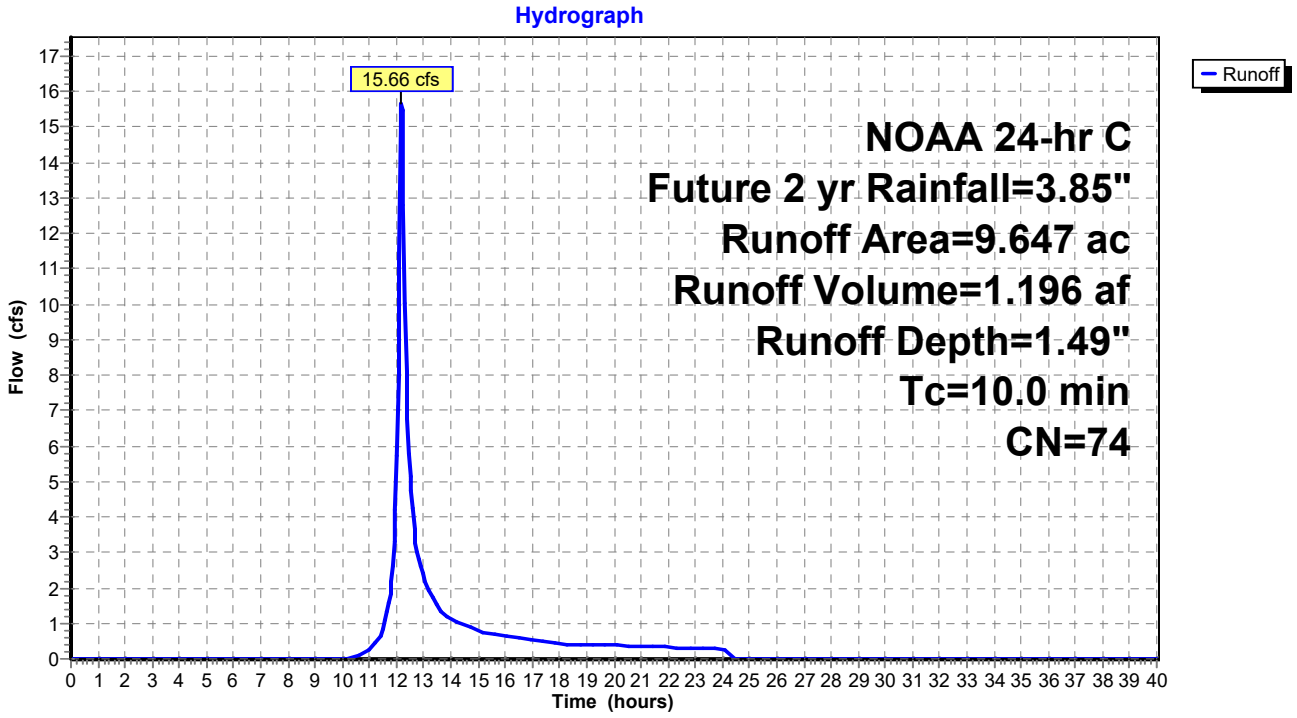
Runoff = 15.66 cfs @ 12.18 hrs, Volume= 1.196 af, Depth= 1.49"
Routed to Link PDA-4 : Proposed Drainage Area #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
9.647	74	>75% Grass cover, Good, HSG C
9.647		100.00% Pervious Area

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

Subcatchment UPDA-4: PDA-4 (undetained)



Summary for Pond B-41: Basin #41

Inflow Area = 2.368 ac, 29.05% Impervious, Inflow Depth = 2.11" for Future 2 yr event
Inflow = 5.11 cfs @ 12.18 hrs, Volume= 0.415 af
Outflow = 0.79 cfs @ 12.85 hrs, Volume= 0.358 af, Atten= 85%, Lag= 40.4 min
Primary = 0.79 cfs @ 12.85 hrs, Volume= 0.358 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 184.25' @ 12.85 hrs Surf.Area= 5,032 sf Storage= 10,085 cf

Plug-Flow detention time= 493.2 min calculated for 0.358 af (86% of inflow)
Center-of-Mass det. time= 426.9 min (1,234.8 - 808.0)

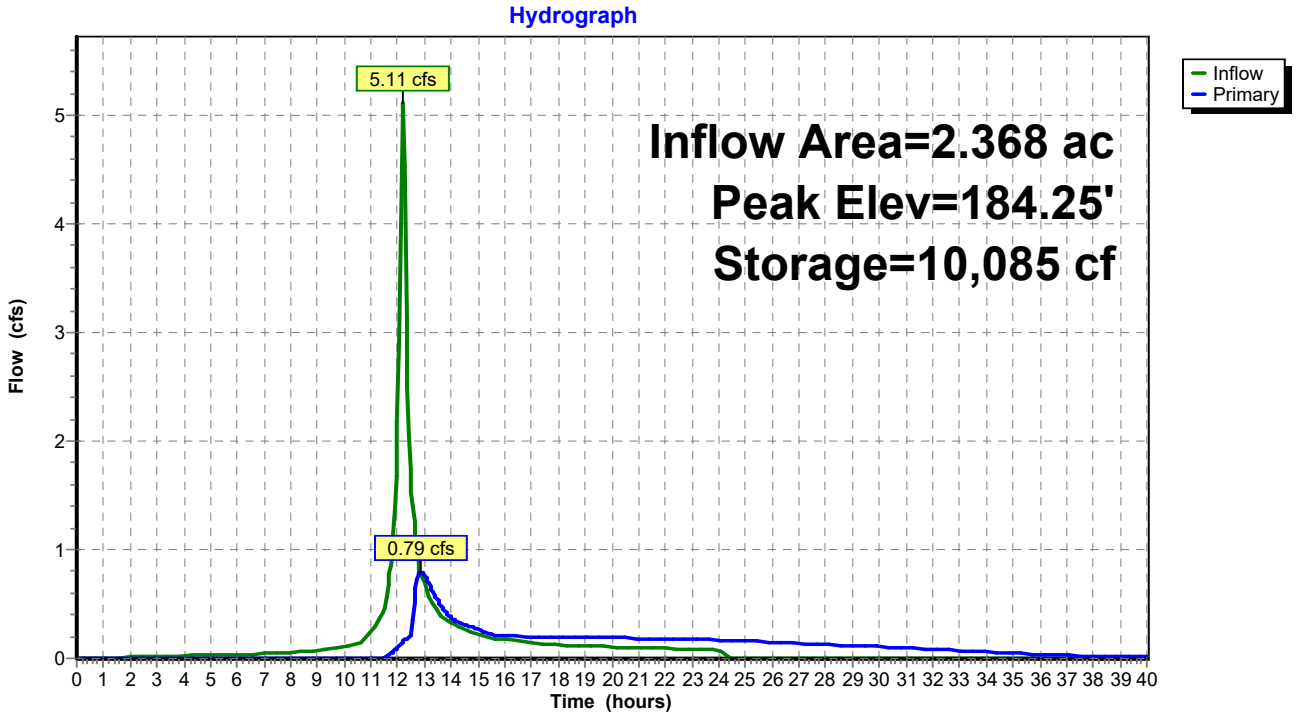
Volume	Invert	Avail.Storage	Storage Description
#1	181.85'	23,005 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
181.85	0	0	0
182.00	3,695	277	277
183.00	4,265	3,980	4,257
184.00	4,870	4,568	8,825
185.00	5,505	5,188	14,012
186.00	6,153	5,829	19,841
186.50	6,502	3,164	23,005

Device	Routing	Invert	Outlet Devices
#1	Primary	181.85'	**18.0" Round Culvert** L= 59.0' Ke= 0.500 Inlet / Outlet Invert= 181.85' / 181.55' S= 0.0051 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	182.50'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.13'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.39'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.78 cfs @ 12.85 hrs HW=184.25' (Free Discharge)
- **1=Culvert** (Passes 0.78 cfs of 9.69 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.21 cfs @ 6.19 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.57 cfs @ 1.15 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-41: Basin #41



Stage-Discharge for Pond B-41: Basin #41

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.85	0.00	182.37	0.00	182.89	0.09	183.41	0.15
181.86	0.00	182.38	0.00	182.90	0.09	183.42	0.15
181.87	0.00	182.39	0.00	182.91	0.09	183.43	0.15
181.88	0.00	182.40	0.00	182.92	0.09	183.44	0.15
181.89	0.00	182.41	0.00	182.93	0.09	183.45	0.15
181.90	0.00	182.42	0.00	182.94	0.10	183.46	0.15
181.91	0.00	182.43	0.00	182.95	0.10	183.47	0.15
181.92	0.00	182.44	0.00	182.96	0.10	183.48	0.15
181.93	0.00	182.45	0.00	182.97	0.10	183.49	0.15
181.94	0.00	182.46	0.00	182.98	0.10	183.50	0.16
181.95	0.00	182.47	0.00	182.99	0.10	183.51	0.16
181.96	0.00	182.48	0.00	183.00	0.10	183.52	0.16
181.97	0.00	182.49	0.00	183.01	0.10	183.53	0.16
181.98	0.00	182.50	0.00	183.02	0.11	183.54	0.16
181.99	0.00	182.51	0.00	183.03	0.11	183.55	0.16
182.00	0.00	182.52	0.00	183.04	0.11	183.56	0.16
182.01	0.00	182.53	0.00	183.05	0.11	183.57	0.16
182.02	0.00	182.54	0.00	183.06	0.11	183.58	0.16
182.03	0.00	182.55	0.00	183.07	0.11	183.59	0.16
182.04	0.00	182.56	0.01	183.08	0.11	183.60	0.16
182.05	0.00	182.57	0.01	183.09	0.11	183.61	0.16
182.06	0.00	182.58	0.01	183.10	0.12	183.62	0.17
182.07	0.00	182.59	0.01	183.11	0.12	183.63	0.17
182.08	0.00	182.60	0.02	183.12	0.12	183.64	0.17
182.09	0.00	182.61	0.02	183.13	0.12	183.65	0.17
182.10	0.00	182.62	0.02	183.14	0.12	183.66	0.17
182.11	0.00	182.63	0.03	183.15	0.12	183.67	0.17
182.12	0.00	182.64	0.03	183.16	0.12	183.68	0.17
182.13	0.00	182.65	0.03	183.17	0.12	183.69	0.17
182.14	0.00	182.66	0.04	183.18	0.12	183.70	0.17
182.15	0.00	182.67	0.04	183.19	0.13	183.71	0.17
182.16	0.00	182.68	0.05	183.20	0.13	183.72	0.17
182.17	0.00	182.69	0.05	183.21	0.13	183.73	0.17
182.18	0.00	182.70	0.05	183.22	0.13	183.74	0.17
182.19	0.00	182.71	0.05	183.23	0.13	183.75	0.18
182.20	0.00	182.72	0.06	183.24	0.13	183.76	0.18
182.21	0.00	182.73	0.06	183.25	0.13	183.77	0.18
182.22	0.00	182.74	0.06	183.26	0.13	183.78	0.18
182.23	0.00	182.75	0.06	183.27	0.13	183.79	0.18
182.24	0.00	182.76	0.06	183.28	0.13	183.80	0.18
182.25	0.00	182.77	0.07	183.29	0.14	183.81	0.18
182.26	0.00	182.78	0.07	183.30	0.14	183.82	0.18
182.27	0.00	182.79	0.07	183.31	0.14	183.83	0.18
182.28	0.00	182.80	0.07	183.32	0.14	183.84	0.18
182.29	0.00	182.81	0.07	183.33	0.14	183.85	0.18
182.30	0.00	182.82	0.08	183.34	0.14	183.86	0.18
182.31	0.00	182.83	0.08	183.35	0.14	183.87	0.18
182.32	0.00	182.84	0.08	183.36	0.14	183.88	0.19
182.33	0.00	182.85	0.08	183.37	0.14	183.89	0.19
182.34	0.00	182.86	0.08	183.38	0.14	183.90	0.19
182.35	0.00	182.87	0.08	183.39	0.15	183.91	0.19
182.36	0.00	182.88	0.09	183.40	0.15	183.92	0.19

Stage-Discharge for Pond B-41: Basin #41 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.93	0.19	184.45	2.55	184.97	9.90	185.49	17.51
183.94	0.19	184.46	2.66	184.98	10.07	185.50	18.11
183.95	0.19	184.47	2.77	184.99	10.24	185.51	18.74
183.96	0.19	184.48	2.89	185.00	10.41	185.52	19.40
183.97	0.19	184.49	3.00	185.01	10.58	185.53	20.08
183.98	0.19	184.50	3.12	185.02	10.75	185.54	20.78
183.99	0.19	184.51	3.23	185.03	10.92	185.55	21.51
184.00	0.19	184.52	3.35	185.04	11.09	185.56	22.26
184.01	0.19	184.53	3.47	185.05	11.27	185.57	23.03
184.02	0.20	184.54	3.59	185.06	11.44	185.58	23.82
184.03	0.20	184.55	3.71	185.07	11.62	185.59	24.64
184.04	0.20	184.56	3.84	185.08	11.79	185.60	25.51
184.05	0.20	184.57	3.96	185.09	11.97	185.61	26.41
184.06	0.20	184.58	4.09	185.10	12.15	185.62	27.34
184.07	0.20	184.59	4.22	185.11	12.33	185.63	28.29
184.08	0.20	184.60	4.35	185.12	12.51	185.64	29.27
184.09	0.20	184.61	4.48	185.13	12.69	185.65	30.27
184.10	0.20	184.62	4.61	185.14	12.77	185.66	31.29
184.11	0.20	184.63	4.74	185.15	12.80	185.67	32.34
184.12	0.20	184.64	4.88	185.16	12.83	185.68	33.42
184.13	0.20	184.65	5.01	185.17	12.86	185.69	34.52
184.14	0.22	184.66	5.15	185.18	12.89	185.70	35.64
184.15	0.24	184.67	5.29	185.19	12.92	185.71	36.79
184.16	0.27	184.68	5.42	185.20	12.95	185.72	37.96
184.17	0.31	184.69	5.56	185.21	12.98	185.73	39.16
184.18	0.35	184.70	5.71	185.22	13.01	185.74	40.38
184.19	0.40	184.71	5.85	185.23	13.04	185.75	41.63
184.20	0.45	184.72	5.99	185.24	13.07	185.76	42.89
184.21	0.50	184.73	6.14	185.25	13.10	185.77	44.19
184.22	0.56	184.74	6.28	185.26	13.13	185.78	45.51
184.23	0.62	184.75	6.43	185.27	13.16	185.79	46.85
184.24	0.68	184.76	6.58	185.28	13.19	185.80	48.24
184.25	0.75	184.77	6.72	185.29	13.22	185.81	49.66
184.26	0.82	184.78	6.87	185.30	13.25	185.82	51.10
184.27	0.89	184.79	7.02	185.31	13.28	185.83	52.57
184.28	0.97	184.80	7.18	185.32	13.30	185.84	54.07
184.29	1.04	184.81	7.33	185.33	13.33	185.85	55.59
184.30	1.12	184.82	7.48	185.34	13.36	185.86	57.14
184.31	1.20	184.83	7.64	185.35	13.39	185.87	58.72
184.32	1.29	184.84	7.79	185.36	13.42	185.88	60.32
184.33	1.37	184.85	7.95	185.37	13.45	185.89	61.95
184.34	1.46	184.86	8.11	185.38	13.48	185.90	63.60
184.35	1.55	184.87	8.27	185.39	13.51	185.91	65.28
184.36	1.64	184.88	8.42	185.40	13.65	185.92	66.99
184.37	1.74	184.89	8.59	185.41	13.90	185.93	68.72
184.38	1.83	184.90	8.75	185.42	14.20	185.94	70.48
184.39	1.93	184.91	8.91	185.43	14.56	185.95	72.27
184.40	2.03	184.92	9.07	185.44	14.96	185.96	74.09
184.41	2.13	184.93	9.24	185.45	15.40	185.97	75.93
184.42	2.23	184.94	9.40	185.46	15.88	185.98	77.80
184.43	2.34	184.95	9.57	185.47	16.39	185.99	79.69
184.44	2.45	184.96	9.73	185.48	16.94	186.00	81.34

Stage-Discharge for Pond B-41: Basin #41 (continued)

Elevation (feet)	Primary (cfs)
186.01	83.01
186.02	84.69
186.03	86.38
186.04	88.09
186.05	89.81
186.06	91.54
186.07	93.29
186.08	95.04
186.09	96.81
186.10	98.60
186.11	100.40
186.12	102.20
186.13	104.03
186.14	105.86
186.15	107.71
186.16	109.56
186.17	111.44
186.18	113.32
186.19	115.21
186.20	117.16
186.21	119.11
186.22	121.09
186.23	123.07
186.24	125.07
186.25	127.08
186.26	129.10
186.27	131.14
186.28	133.19
186.29	135.25
186.30	137.32
186.31	139.41
186.32	141.51
186.33	143.63
186.34	145.75
186.35	147.89
186.36	150.04
186.37	152.21
186.38	154.38
186.39	156.57
186.40	158.72
186.41	160.88
186.42	163.05
186.43	165.23
186.44	167.42
186.45	169.62
186.46	171.83
186.47	174.05
186.48	176.29
186.49	178.53
186.50	**180.78**

Stage-Area-Storage for Pond B-41: Basin #41

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.85	0	0	182.37	3,906	1,683
181.86	246	1	182.38	3,912	1,722
181.87	493	5	182.39	3,917	1,762
181.88	739	11	182.40	3,923	1,801
181.89	985	20	182.41	3,929	1,840
181.90	1,232	31	182.42	3,934	1,879
181.91	1,478	44	182.43	3,940	1,919
181.92	1,724	60	182.44	3,946	1,958
181.93	1,971	79	182.45	3,951	1,998
181.94	2,217	100	182.46	3,957	2,037
181.95	2,463	123	182.47	3,963	2,077
181.96	2,710	149	182.48	3,969	2,116
181.97	2,956	177	182.49	3,974	2,156
181.98	3,202	208	182.50	3,980	2,196
181.99	3,449	241	182.51	3,986	2,236
182.00	3,695	277	182.52	3,991	2,276
182.01	3,701	314	182.53	3,997	2,316
182.02	3,706	351	182.54	4,003	2,356
182.03	3,712	388	182.55	4,008	2,396
182.04	3,718	425	182.56	4,014	2,436
182.05	3,723	463	182.57	4,020	2,476
182.06	3,729	500	182.58	4,026	2,516
182.07	3,735	537	182.59	4,031	2,556
182.08	3,741	575	182.60	4,037	2,597
182.09	3,746	612	182.61	4,043	2,637
182.10	3,752	649	182.62	4,048	2,678
182.11	3,758	687	182.63	4,054	2,718
182.12	3,763	725	182.64	4,060	2,759
182.13	3,769	762	182.65	4,066	2,799
182.14	3,775	800	182.66	4,071	2,840
182.15	3,781	838	182.67	4,077	2,881
182.16	3,786	876	182.68	4,083	2,922
182.17	3,792	914	182.69	4,088	2,962
182.18	3,798	951	182.70	4,094	3,003
182.19	3,803	989	182.71	4,100	3,044
182.20	3,809	1,028	182.72	4,105	3,085
182.21	3,815	1,066	182.73	4,111	3,126
182.22	3,820	1,104	182.74	4,117	3,167
182.23	3,826	1,142	182.75	4,123	3,209
182.24	3,832	1,180	182.76	4,128	3,250
182.25	3,838	1,219	182.77	4,134	3,291
182.26	3,843	1,257	182.78	4,140	3,333
182.27	3,849	1,296	182.79	4,145	3,374
182.28	3,855	1,334	182.80	4,151	3,416
182.29	3,860	1,373	182.81	4,157	3,457
182.30	3,866	1,411	182.82	4,162	3,499
182.31	3,872	1,450	182.83	4,168	3,540
182.32	3,877	1,489	182.84	4,174	3,582
182.33	3,883	1,528	182.85	4,179	3,624
182.34	3,889	1,566	182.86	4,185	3,666
182.35	3,894	1,605	182.87	4,191	3,707
182.36	3,900	1,644	182.88	4,197	3,749

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.89	4,202	3,791	183.41	4,513	6,057
182.90	4,208	3,833	183.42	4,519	6,102
182.91	4,214	3,876	183.43	4,525	6,147
182.92	4,219	3,918	183.44	4,531	6,192
182.93	4,225	3,960	183.45	4,537	6,238
182.94	4,231	4,002	183.46	4,543	6,283
182.95	4,236	4,045	183.47	4,549	6,328
182.96	4,242	4,087	183.48	4,555	6,374
182.97	4,248	4,129	183.49	4,561	6,420
182.98	4,254	4,172	183.50	4,568	6,465
182.99	4,259	4,215	183.51	4,574	6,511
183.00	4,265	4,257	183.52	4,580	6,557
183.01	4,271	4,300	183.53	4,586	6,603
183.02	4,277	4,343	183.54	4,592	6,648
183.03	4,283	4,385	183.55	4,598	6,694
183.04	4,289	4,428	183.56	4,604	6,740
183.05	4,295	4,471	183.57	4,610	6,786
183.06	4,301	4,514	183.58	4,616	6,833
183.07	4,307	4,557	183.59	4,622	6,879
183.08	4,313	4,600	183.60	4,628	6,925
183.09	4,319	4,643	183.61	4,634	6,971
183.10	4,325	4,687	183.62	4,640	7,018
183.11	4,332	4,730	183.63	4,646	7,064
183.12	4,338	4,773	183.64	4,652	7,111
183.13	4,344	4,817	183.65	4,658	7,157
183.14	4,350	4,860	183.66	4,664	7,204
183.15	4,356	4,904	183.67	4,670	7,250
183.16	4,362	4,947	183.68	4,676	7,297
183.17	4,368	4,991	183.69	4,682	7,344
183.18	4,374	5,035	183.70	4,688	7,391
183.19	4,380	5,078	183.71	4,695	7,438
183.20	4,386	5,122	183.72	4,701	7,485
183.21	4,392	5,166	183.73	4,707	7,532
183.22	4,398	5,210	183.74	4,713	7,579
183.23	4,404	5,254	183.75	4,719	7,626
183.24	4,410	5,298	183.76	4,725	7,673
183.25	4,416	5,342	183.77	4,731	7,721
183.26	4,422	5,386	183.78	4,737	7,768
183.27	4,428	5,431	183.79	4,743	7,815
183.28	4,434	5,475	183.80	4,749	7,863
183.29	4,440	5,519	183.81	4,755	7,910
183.30	4,446	5,564	183.82	4,761	7,958
183.31	4,453	5,608	183.83	4,767	8,005
183.32	4,459	5,653	183.84	4,773	8,053
183.33	4,465	5,698	183.85	4,779	8,101
183.34	4,471	5,742	183.86	4,785	8,149
183.35	4,477	5,787	183.87	4,791	8,197
183.36	4,483	5,832	183.88	4,797	8,245
183.37	4,489	5,877	183.89	4,803	8,293
183.38	4,495	5,922	183.90	4,810	8,341
183.39	4,501	5,966	183.91	4,816	8,389
183.40	4,507	6,012	183.92	4,822	8,437

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.93	4,828	8,485	184.45	5,156	11,080
183.94	4,834	8,534	184.46	5,162	11,132
183.95	4,840	8,582	184.47	5,168	11,184
183.96	4,846	8,630	184.48	5,175	11,235
183.97	4,852	8,679	184.49	5,181	11,287
183.98	4,858	8,727	184.50	5,188	11,339
183.99	4,864	8,776	184.51	5,194	11,391
184.00	4,870	8,825	184.52	5,200	11,443
184.01	4,876	8,873	184.53	5,207	11,495
184.02	4,883	8,922	184.54	5,213	11,547
184.03	4,889	8,971	184.55	5,219	11,599
184.04	4,895	9,020	184.56	5,226	11,651
184.05	4,902	9,069	184.57	5,232	11,704
184.06	4,908	9,118	184.58	5,238	11,756
184.07	4,914	9,167	184.59	5,245	11,808
184.08	4,921	9,216	184.60	5,251	11,861
184.09	4,927	9,265	184.61	5,257	11,913
184.10	4,933	9,315	184.62	5,264	11,966
184.11	4,940	9,364	184.63	5,270	12,019
184.12	4,946	9,414	184.64	5,276	12,071
184.13	4,953	9,463	184.65	5,283	12,124
184.14	4,959	9,513	184.66	5,289	12,177
184.15	4,965	9,562	184.67	5,295	12,230
184.16	4,972	9,612	184.68	5,302	12,283
184.17	4,978	9,662	184.69	5,308	12,336
184.18	4,984	9,712	184.70	5,314	12,389
184.19	4,991	9,761	184.71	5,321	12,442
184.20	4,997	9,811	184.72	5,327	12,496
184.21	5,003	9,861	184.73	5,334	12,549
184.22	5,010	9,911	184.74	5,340	12,602
184.23	5,016	9,962	184.75	5,346	12,656
184.24	5,022	10,012	184.76	5,353	12,709
184.25	5,029	10,062	184.77	5,359	12,763
184.26	5,035	10,112	184.78	5,365	12,816
184.27	5,041	10,163	184.79	5,372	12,870
184.28	5,048	10,213	184.80	5,378	12,924
184.29	5,054	10,264	184.81	5,384	12,978
184.30	5,060	10,314	184.82	5,391	13,032
184.31	5,067	10,365	184.83	5,397	13,085
184.32	5,073	10,416	184.84	5,403	13,139
184.33	5,080	10,466	184.85	5,410	13,194
184.34	5,086	10,517	184.86	5,416	13,248
184.35	5,092	10,568	184.87	5,422	13,302
184.36	5,099	10,619	184.88	5,429	13,356
184.37	5,105	10,670	184.89	5,435	13,410
184.38	5,111	10,721	184.90	5,442	13,465
184.39	5,118	10,772	184.91	5,448	13,519
184.40	5,124	10,823	184.92	5,454	13,574
184.41	5,130	10,875	184.93	5,461	13,628
184.42	5,137	10,926	184.94	5,467	13,683
184.43	5,143	10,977	184.95	5,473	13,738
184.44	5,149	11,029	184.96	5,480	13,792

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.97	5,486	13,847	185.49	5,823	16,787
184.98	5,492	13,902	185.50	5,829	16,846
184.99	5,499	13,957	185.51	5,835	16,904
185.00	5,505	14,012	185.52	5,842	16,962
185.01	5,511	14,067	185.53	5,848	17,021
185.02	5,518	14,122	185.54	5,855	17,079
185.03	5,524	14,178	185.55	5,861	17,138
185.04	5,531	14,233	185.56	5,868	17,197
185.05	5,537	14,288	185.57	5,874	17,255
185.06	5,544	14,344	185.58	5,881	17,314
185.07	5,550	14,399	185.59	5,887	17,373
185.08	5,557	14,455	185.60	5,894	17,432
185.09	5,563	14,510	185.61	5,900	17,491
185.10	5,570	14,566	185.62	5,907	17,550
185.11	5,576	14,622	185.63	5,913	17,609
185.12	5,583	14,677	185.64	5,920	17,668
185.13	5,589	14,733	185.65	5,926	17,727
185.14	5,596	14,789	185.66	5,933	17,787
185.15	5,602	14,845	185.67	5,939	17,846
185.16	5,609	14,901	185.68	5,946	17,905
185.17	5,615	14,957	185.69	5,952	17,965
185.18	5,622	15,014	185.70	5,959	18,024
185.19	5,628	15,070	185.71	5,965	18,084
185.20	5,635	15,126	185.72	5,972	18,144
185.21	5,641	15,182	185.73	5,978	18,203
185.22	5,648	15,239	185.74	5,985	18,263
185.23	5,654	15,295	185.75	5,991	18,323
185.24	5,661	15,352	185.76	5,997	18,383
185.25	5,667	15,409	185.77	6,004	18,443
185.26	5,673	15,465	185.78	6,010	18,503
185.27	5,680	15,522	185.79	6,017	18,563
185.28	5,686	15,579	185.80	6,023	18,623
185.29	5,693	15,636	185.81	6,030	18,684
185.30	5,699	15,693	185.82	6,036	18,744
185.31	5,706	15,750	185.83	6,043	18,804
185.32	5,712	15,807	185.84	6,049	18,865
185.33	5,719	15,864	185.85	6,056	18,925
185.34	5,725	15,921	185.86	6,062	18,986
185.35	5,732	15,979	185.87	6,069	19,047
185.36	5,738	16,036	185.88	6,075	19,107
185.37	5,745	16,093	185.89	6,082	19,168
185.38	5,751	16,151	185.90	6,088	19,229
185.39	5,758	16,208	185.91	6,095	19,290
185.40	5,764	16,266	185.92	6,101	19,351
185.41	5,771	16,324	185.93	6,108	19,412
185.42	5,777	16,381	185.94	6,114	19,473
185.43	5,784	16,439	185.95	6,121	19,534
185.44	5,790	16,497	185.96	6,127	19,596
185.45	5,797	16,555	185.97	6,134	19,657
185.46	5,803	16,613	185.98	6,140	19,718
185.47	5,810	16,671	185.99	6,147	19,780
185.48	5,816	16,729	186.00	6,153	19,841

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.01	6,160	19,903
186.02	6,167	19,964
186.03	6,174	20,026
186.04	6,181	20,088
186.05	6,188	20,150
186.06	6,195	20,212
186.07	6,202	20,274
186.08	6,209	20,336
186.09	6,216	20,398
186.10	6,223	20,460
186.11	6,230	20,522
186.12	6,237	20,585
186.13	6,244	20,647
186.14	6,251	20,709
186.15	6,258	20,772
186.16	6,265	20,835
186.17	6,272	20,897
186.18	6,279	20,960
186.19	6,286	21,023
186.20	6,293	21,086
186.21	6,300	21,149
186.22	6,307	21,212
186.23	6,314	21,275
186.24	6,321	21,338
186.25	6,328	21,401
186.26	6,334	21,464
186.27	6,341	21,528
186.28	6,348	21,591
186.29	6,355	21,655
186.30	6,362	21,718
186.31	6,369	21,782
186.32	6,376	21,846
186.33	6,383	21,910
186.34	6,390	21,973
186.35	6,397	22,037
186.36	6,404	22,101
186.37	6,411	22,166
186.38	6,418	22,230
186.39	6,425	22,294
186.40	6,432	22,358
186.41	6,439	22,423
186.42	6,446	22,487
186.43	6,453	22,551
186.44	6,460	22,616
186.45	6,467	22,681
186.46	6,474	22,745
186.47	6,481	22,810
186.48	6,488	22,875
186.49	6,495	22,940
186.50	**6,502**	**23,005**

Summary for Pond B-42: Basin #42

Inflow Area = 0.777 ac, 38.35% Impervious, Inflow Depth = 2.30" for Future 2 yr event
Inflow = 1.82 cfs @ 12.17 hrs, Volume= 0.149 af
Outflow = 0.06 cfs @ 15.68 hrs, Volume= 0.055 af, Atten= 97%, Lag= 210.3 min
Primary = 0.06 cfs @ 15.68 hrs, Volume= 0.055 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 182.85' @ 15.68 hrs Surf.Area= 3,044 sf Storage= 4,832 cf

Plug-Flow detention time= 546.6 min calculated for 0.055 af (37% of inflow)
Center-of-Mass det. time= 391.5 min (1,189.0 - 797.6)

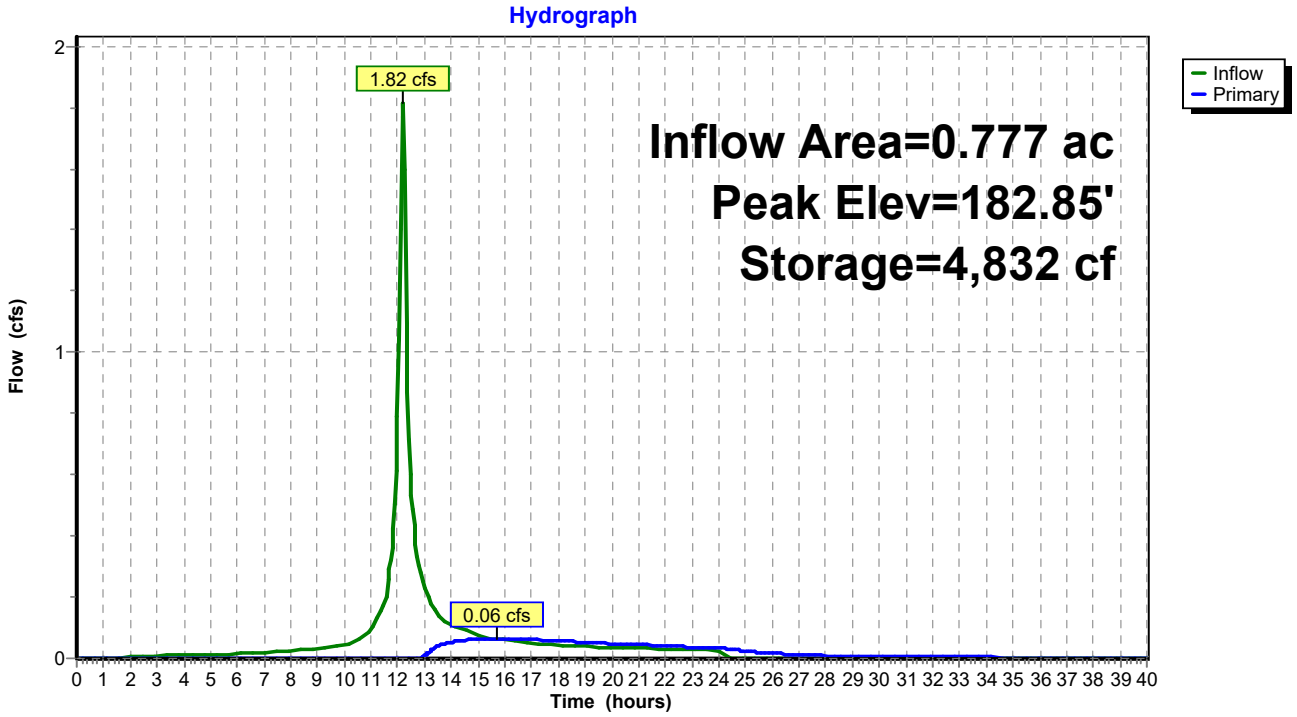
Volume	Invert	Avail.Storage	Storage Description
#1	180.96'	22,293 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
180.96	0	0	0
181.00	2,142	43	43
182.00	2,613	2,378	2,420
183.00	3,118	2,866	5,286
184.00	3,656	3,387	8,673
185.00	4,227	3,942	12,614
186.00	4,831	4,529	17,143
187.00	5,468	5,150	22,293

Device	Routing	Invert	Outlet Devices
#1	Primary	181.96'	**18.0" Round Culvert** L= 192.0' Ke= 0.500 Inlet / Outlet Invert= 181.96' / 181.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	182.60'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.01'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.99'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.06 cfs @ 15.68 hrs HW=182.85' (Free Discharge)
- **1=Culvert** (Passes 0.06 cfs of 2.87 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.06 cfs @ 1.85 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-42: Basin #42



Stage-Discharge for Pond B-42: Basin #42

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.96	0.00	181.48	0.00	182.00	0.00	182.52	0.00
180.97	0.00	181.49	0.00	182.01	0.00	182.53	0.00
180.98	0.00	181.50	0.00	182.02	0.00	182.54	0.00
180.99	0.00	181.51	0.00	182.03	0.00	182.55	0.00
181.00	0.00	181.52	0.00	182.04	0.00	182.56	0.00
181.01	0.00	181.53	0.00	182.05	0.00	182.57	0.00
181.02	0.00	181.54	0.00	182.06	0.00	182.58	0.00
181.03	0.00	181.55	0.00	182.07	0.00	182.59	0.00
181.04	0.00	181.56	0.00	182.08	0.00	182.60	0.00
181.05	0.00	181.57	0.00	182.09	0.00	182.61	0.00
181.06	0.00	181.58	0.00	182.10	0.00	182.62	0.00
181.07	0.00	181.59	0.00	182.11	0.00	182.63	0.00
181.08	0.00	181.60	0.00	182.12	0.00	182.64	0.00
181.09	0.00	181.61	0.00	182.13	0.00	182.65	0.00
181.10	0.00	181.62	0.00	182.14	0.00	182.66	0.01
181.11	0.00	181.63	0.00	182.15	0.00	182.67	0.01
181.12	0.00	181.64	0.00	182.16	0.00	182.68	0.01
181.13	0.00	181.65	0.00	182.17	0.00	182.69	0.01
181.14	0.00	181.66	0.00	182.18	0.00	182.70	0.02
181.15	0.00	181.67	0.00	182.19	0.00	182.71	0.02
181.16	0.00	181.68	0.00	182.20	0.00	182.72	0.02
181.17	0.00	181.69	0.00	182.21	0.00	182.73	0.03
181.18	0.00	181.70	0.00	182.22	0.00	182.74	0.03
181.19	0.00	181.71	0.00	182.23	0.00	182.75	0.03
181.20	0.00	181.72	0.00	182.24	0.00	182.76	0.04
181.21	0.00	181.73	0.00	182.25	0.00	182.77	0.04
181.22	0.00	181.74	0.00	182.26	0.00	182.78	0.05
181.23	0.00	181.75	0.00	182.27	0.00	182.79	0.05
181.24	0.00	181.76	0.00	182.28	0.00	182.80	0.05
181.25	0.00	181.77	0.00	182.29	0.00	182.81	0.05
181.26	0.00	181.78	0.00	182.30	0.00	182.82	0.06
181.27	0.00	181.79	0.00	182.31	0.00	182.83	0.06
181.28	0.00	181.80	0.00	182.32	0.00	182.84	0.06
181.29	0.00	181.81	0.00	182.33	0.00	182.85	0.06
181.30	0.00	181.82	0.00	182.34	0.00	182.86	0.06
181.31	0.00	181.83	0.00	182.35	0.00	182.87	0.07
181.32	0.00	181.84	0.00	182.36	0.00	182.88	0.07
181.33	0.00	181.85	0.00	182.37	0.00	182.89	0.07
181.34	0.00	181.86	0.00	182.38	0.00	182.90	0.07
181.35	0.00	181.87	0.00	182.39	0.00	182.91	0.07
181.36	0.00	181.88	0.00	182.40	0.00	182.92	0.08
181.37	0.00	181.89	0.00	182.41	0.00	182.93	0.08
181.38	0.00	181.90	0.00	182.42	0.00	182.94	0.08
181.39	0.00	181.91	0.00	182.43	0.00	182.95	0.08
181.40	0.00	181.92	0.00	182.44	0.00	182.96	0.08
181.41	0.00	181.93	0.00	182.45	0.00	182.97	0.08
181.42	0.00	181.94	0.00	182.46	0.00	182.98	0.09
181.43	0.00	181.95	0.00	182.47	0.00	182.99	0.09
181.44	0.00	181.96	0.00	182.48	0.00	183.00	0.09
181.45	0.00	181.97	0.00	182.49	0.00	183.01	0.09
181.46	0.00	181.98	0.00	182.50	0.00	183.02	0.09
181.47	0.00	181.99	0.00	182.51	0.00	183.03	0.09

Stage-Discharge for Pond B-42: Basin #42 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.04	0.10	183.56	0.15	184.08	0.43	184.60	5.98
183.05	0.10	183.57	0.15	184.09	0.49	184.61	6.12
183.06	0.10	183.58	0.15	184.10	0.55	184.62	6.27
183.07	0.10	183.59	0.15	184.11	0.61	184.63	6.42
183.08	0.10	183.60	0.16	184.12	0.67	184.64	6.56
183.09	0.10	183.61	0.16	184.13	0.74	184.65	6.71
183.10	0.10	183.62	0.16	184.14	0.81	184.66	6.86
183.11	0.10	183.63	0.16	184.15	0.88	184.67	7.01
183.12	0.11	183.64	0.16	184.16	0.95	184.68	7.16
183.13	0.11	183.65	0.16	184.17	1.03	184.69	7.32
183.14	0.11	183.66	0.16	184.18	1.11	184.70	7.47
183.15	0.11	183.67	0.16	184.19	1.19	184.71	7.62
183.16	0.11	183.68	0.16	184.20	1.27	184.72	7.78
183.17	0.11	183.69	0.16	184.21	1.36	184.73	7.94
183.18	0.11	183.70	0.16	184.22	1.45	184.74	8.09
183.19	0.11	183.71	0.16	184.23	1.54	184.75	8.25
183.20	0.12	183.72	0.17	184.24	1.63	184.76	8.41
183.21	0.12	183.73	0.17	184.25	1.72	184.77	8.57
183.22	0.12	183.74	0.17	184.26	1.82	184.78	8.73
183.23	0.12	183.75	0.17	184.27	1.92	184.79	8.90
183.24	0.12	183.76	0.17	184.28	2.02	184.80	9.06
183.25	0.12	183.77	0.17	184.29	2.12	184.81	9.22
183.26	0.12	183.78	0.17	184.30	2.22	184.82	9.39
183.27	0.12	183.79	0.17	184.31	2.33	184.83	9.55
183.28	0.12	183.80	0.17	184.32	2.43	184.84	9.69
183.29	0.13	183.81	0.17	184.33	2.54	184.85	9.71
183.30	0.13	183.82	0.17	184.34	2.65	184.86	9.73
183.31	0.13	183.83	0.17	184.35	2.76	184.87	9.75
183.32	0.13	183.84	0.17	184.36	2.87	184.88	9.77
183.33	0.13	183.85	0.18	184.37	2.99	184.89	9.79
183.34	0.13	183.86	0.18	184.38	3.10	184.90	9.81
183.35	0.13	183.87	0.18	184.39	3.22	184.91	9.83
183.36	0.13	183.88	0.18	184.40	3.34	184.92	9.85
183.37	0.13	183.89	0.18	184.41	3.46	184.93	9.88
183.38	0.13	183.90	0.18	184.42	3.58	184.94	9.90
183.39	0.14	183.91	0.18	184.43	3.70	184.95	9.92
183.40	0.14	183.92	0.18	184.44	3.83	184.96	9.94
183.41	0.14	183.93	0.18	184.45	3.95	184.97	9.96
183.42	0.14	183.94	0.18	184.46	4.08	184.98	9.98
183.43	0.14	183.95	0.18	184.47	4.21	184.99	10.00
183.44	0.14	183.96	0.18	184.48	4.33	185.00	10.02
183.45	0.14	183.97	0.18	184.49	4.46	185.01	10.04
183.46	0.14	183.98	0.19	184.50	4.60	185.02	10.06
183.47	0.14	183.99	0.19	184.51	4.73	185.03	10.08
183.48	0.14	184.00	0.19	184.52	4.86	185.04	10.10
183.49	0.15	184.01	0.19	184.53	5.00	185.05	10.12
183.50	0.15	184.02	0.20	184.54	5.14	185.06	10.14
183.51	0.15	184.03	0.23	184.55	5.27	185.07	10.16
183.52	0.15	184.04	0.26	184.56	5.41	185.08	10.18
183.53	0.15	184.05	0.29	184.57	5.55	185.09	10.20
183.54	0.15	184.06	0.34	184.58	5.69	185.10	10.21
183.55	0.15	184.07	0.38	184.59	5.84	185.11	10.23

Stage-Discharge for Pond B-42: Basin #42 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.12	10.25	185.64	11.23	186.16	20.39	186.68	92.62
185.13	10.27	185.65	11.24	186.17	21.15	186.69	94.39
185.14	10.29	185.66	11.26	186.18	21.93	186.70	96.16
185.15	10.31	185.67	11.28	186.19	22.73	186.71	97.95
185.16	10.33	185.68	11.30	186.20	23.60	186.72	99.75
185.17	10.35	185.69	11.31	186.21	24.49	186.73	101.56
185.18	10.37	185.70	11.33	186.22	25.40	186.74	103.38
185.19	10.39	185.71	11.35	186.23	26.34	186.75	105.22
185.20	10.41	185.72	11.37	186.24	27.30	186.76	107.07
185.21	10.43	185.73	11.39	186.25	28.29	186.77	108.93
185.22	10.45	185.74	11.40	186.26	29.31	186.78	110.80
185.23	10.47	185.75	11.42	186.27	30.35	186.79	112.69
185.24	10.49	185.76	11.44	186.28	31.41	186.80	114.62
185.25	10.51	185.77	11.46	186.29	32.50	186.81	116.57
185.26	10.52	185.78	11.47	186.30	33.61	186.82	118.53
185.27	10.54	185.79	11.49	186.31	34.75	186.83	120.50
185.28	10.56	185.80	11.51	186.32	35.91	186.84	122.49
185.29	10.58	185.81	11.53	186.33	37.10	186.85	124.49
185.30	10.60	185.82	11.54	186.34	38.31	186.86	126.51
185.31	10.62	185.83	11.56	186.35	39.54	186.87	128.53
185.32	10.64	185.84	11.58	186.36	40.80	186.88	130.57
185.33	10.66	185.85	11.59	186.37	42.09	186.89	132.63
185.34	10.68	185.86	11.61	186.38	43.39	186.90	134.69
185.35	10.69	185.87	11.63	186.39	44.72	186.91	136.77
185.36	10.71	185.88	11.65	186.40	46.11	186.92	138.86
185.37	10.73	185.89	11.66	186.41	47.51	186.93	140.97
185.38	10.75	185.90	11.68	186.42	48.95	186.94	143.08
185.39	10.77	185.91	11.70	186.43	50.41	186.95	145.21
185.40	10.79	185.92	11.72	186.44	51.89	186.96	147.35
185.41	10.81	185.93	11.73	186.45	53.41	186.97	149.51
185.42	10.83	185.94	11.75	186.46	54.95	186.98	151.68
185.43	10.84	185.95	11.77	186.47	56.51	186.99	153.86
185.44	10.86	185.96	11.78	186.48	58.10	187.00	**155.99**
185.45	10.88	185.97	11.80	186.49	59.72		
185.46	10.90	185.98	11.82	186.50	61.36		
185.47	10.92	185.99	11.83	186.51	63.03		
185.48	10.94	186.00	11.97	186.52	64.73		
185.49	10.95	186.01	12.20	186.53	66.45		
185.50	10.97	186.02	12.49	186.54	68.21		
185.51	10.99	186.03	12.84	186.55	69.98		
185.52	11.01	186.04	13.23	186.56	71.79		
185.53	11.03	186.05	13.66	186.57	73.62		
185.54	11.05	186.06	14.13	186.58	75.48		
185.55	11.06	186.07	14.63	186.59	77.36		
185.56	11.08	186.08	15.16	186.60	79.00		
185.57	11.10	186.09	15.72	186.61	80.66		
185.58	11.12	186.10	16.31	186.62	82.33		
185.59	11.14	186.11	16.93	186.63	84.01		
185.60	11.15	186.12	17.57	186.64	85.71		
185.61	11.17	186.13	18.24	186.65	87.42		
185.62	11.19	186.14	18.93	186.66	89.14		
185.63	11.21	186.15	19.65	186.67	90.88		

Stage-Area-Storage for Pond B-42: Basin #42

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.96	0	0	181.48	2,368	1,125
180.97	535	3	181.49	2,373	1,149
180.98	1,071	11	181.50	2,378	1,173
180.99	1,607	24	181.51	2,382	1,197
181.00	2,142	43	181.52	2,387	1,220
181.01	2,147	64	181.53	2,392	1,244
181.02	2,151	86	181.54	2,396	1,268
181.03	2,156	107	181.55	2,401	1,292
181.04	2,161	129	181.56	2,406	1,316
181.05	2,166	151	181.57	2,410	1,340
181.06	2,170	172	181.58	2,415	1,364
181.07	2,175	194	181.59	2,420	1,389
181.08	2,180	216	181.60	2,425	1,413
181.09	2,184	238	181.61	2,429	1,437
181.10	2,189	259	181.62	2,434	1,461
181.11	2,194	281	181.63	2,439	1,486
181.12	2,199	303	181.64	2,443	1,510
181.13	2,203	325	181.65	2,448	1,535
181.14	2,208	347	181.66	2,453	1,559
181.15	2,213	369	181.67	2,458	1,584
181.16	2,217	392	181.68	2,462	1,608
181.17	2,222	414	181.69	2,467	1,633
181.18	2,227	436	181.70	2,472	1,658
181.19	2,231	458	181.71	2,476	1,682
181.20	2,236	481	181.72	2,481	1,707
181.21	2,241	503	181.73	2,486	1,732
181.22	2,246	525	181.74	2,491	1,757
181.23	2,250	548	181.75	2,495	1,782
181.24	2,255	570	181.76	2,500	1,807
181.25	2,260	593	181.77	2,505	1,832
181.26	2,264	616	181.78	2,509	1,857
181.27	2,269	638	181.79	2,514	1,882
181.28	2,274	661	181.80	2,519	1,907
181.29	2,279	684	181.81	2,524	1,932
181.30	2,283	707	181.82	2,528	1,958
181.31	2,288	729	181.83	2,533	1,983
181.32	2,293	752	181.84	2,538	2,008
181.33	2,297	775	181.85	2,542	2,034
181.34	2,302	798	181.86	2,547	2,059
181.35	2,307	821	181.87	2,552	2,085
181.36	2,312	844	181.88	2,556	2,110
181.37	2,316	868	181.89	2,561	2,136
181.38	2,321	891	181.90	2,566	2,161
181.39	2,326	914	181.91	2,571	2,187
181.40	2,330	937	181.92	2,575	2,213
181.41	2,335	961	181.93	2,580	2,239
181.42	2,340	984	181.94	2,585	2,264
181.43	2,345	1,007	181.95	2,589	2,290
181.44	2,349	1,031	181.96	2,594	2,316
181.45	2,354	1,054	181.97	2,599	2,342
181.46	2,359	1,078	181.98	2,604	2,368
181.47	2,363	1,102	181.99	2,608	2,394

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.00	2,613	2,420	182.52	2,876	3,847
182.01	2,618	2,446	182.53	2,881	3,876
182.02	2,623	2,473	182.54	2,886	3,905
182.03	2,628	2,499	182.55	2,891	3,934
182.04	2,633	2,525	182.56	2,896	3,963
182.05	2,638	2,552	182.57	2,901	3,992
182.06	2,643	2,578	182.58	2,906	4,021
182.07	2,648	2,604	182.59	2,911	4,050
182.08	2,653	2,631	182.60	2,916	4,079
182.09	2,658	2,658	182.61	2,921	4,108
182.10	2,663	2,684	182.62	2,926	4,137
182.11	2,669	2,711	182.63	2,931	4,167
182.12	2,674	2,738	182.64	2,936	4,196
182.13	2,679	2,764	182.65	2,941	4,225
182.14	2,684	2,791	182.66	2,946	4,255
182.15	2,689	2,818	182.67	2,951	4,284
182.16	2,694	2,845	182.68	2,956	4,314
182.17	2,699	2,872	182.69	2,961	4,344
182.18	2,704	2,899	182.70	2,967	4,373
182.19	2,709	2,926	182.71	2,972	4,403
182.20	2,714	2,953	182.72	2,977	4,433
182.21	2,719	2,980	182.73	2,982	4,462
182.22	2,724	3,007	182.74	2,987	4,492
182.23	2,729	3,035	182.75	2,992	4,522
182.24	2,734	3,062	182.76	2,997	4,552
182.25	2,739	3,089	182.77	3,002	4,582
182.26	2,744	3,117	182.78	3,007	4,612
182.27	2,749	3,144	182.79	3,012	4,642
182.28	2,754	3,172	182.80	3,017	4,672
182.29	2,759	3,199	182.81	3,022	4,703
182.30	2,765	3,227	182.82	3,027	4,733
182.31	2,770	3,255	182.83	3,032	4,763
182.32	2,775	3,282	182.84	3,037	4,793
182.33	2,780	3,310	182.85	3,042	4,824
182.34	2,785	3,338	182.86	3,047	4,854
182.35	2,790	3,366	182.87	3,052	4,885
182.36	2,795	3,394	182.88	3,057	4,915
182.37	2,800	3,422	182.89	3,062	4,946
182.38	2,805	3,450	182.90	3,068	4,977
182.39	2,810	3,478	182.91	3,073	5,007
182.40	2,815	3,506	182.92	3,078	5,038
182.41	2,820	3,534	182.93	3,083	5,069
182.42	2,825	3,562	182.94	3,088	5,100
182.43	2,830	3,591	182.95	3,093	5,131
182.44	2,835	3,619	182.96	3,098	5,162
182.45	2,840	3,647	182.97	3,103	5,193
182.46	2,845	3,676	182.98	3,108	5,224
182.47	2,850	3,704	182.99	3,113	5,255
182.48	2,855	3,733	183.00	3,118	5,286
182.49	2,860	3,761	183.01	3,123	5,317
182.50	2,866	3,790	183.02	3,129	5,348
182.51	2,871	3,819	183.03	3,134	5,380

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.04	3,140	5,411	183.56	3,419	7,116
183.05	3,145	5,442	183.57	3,425	7,150
183.06	3,150	5,474	183.58	3,430	7,185
183.07	3,156	5,505	183.59	3,435	7,219
183.08	3,161	5,537	183.60	3,441	7,253
183.09	3,166	5,569	183.61	3,446	7,288
183.10	3,172	5,600	183.62	3,452	7,322
183.11	3,177	5,632	183.63	3,457	7,357
183.12	3,183	5,664	183.64	3,462	7,392
183.13	3,188	5,696	183.65	3,468	7,426
183.14	3,193	5,728	183.66	3,473	7,461
183.15	3,199	5,760	183.67	3,478	7,496
183.16	3,204	5,792	183.68	3,484	7,530
183.17	3,209	5,824	183.69	3,489	7,565
183.18	3,215	5,856	183.70	3,495	7,600
183.19	3,220	5,888	183.71	3,500	7,635
183.20	3,226	5,920	183.72	3,505	7,670
183.21	3,231	5,952	183.73	3,511	7,705
183.22	3,236	5,985	183.74	3,516	7,740
183.23	3,242	6,017	183.75	3,522	7,776
183.24	3,247	6,050	183.76	3,527	7,811
183.25	3,253	6,082	183.77	3,532	7,846
183.26	3,258	6,115	183.78	3,538	7,882
183.27	3,263	6,147	183.79	3,543	7,917
183.28	3,269	6,180	183.80	3,548	7,952
183.29	3,274	6,213	183.81	3,554	7,988
183.30	3,279	6,245	183.82	3,559	8,023
183.31	3,285	6,278	183.83	3,565	8,059
183.32	3,290	6,311	183.84	3,570	8,095
183.33	3,296	6,344	183.85	3,575	8,130
183.34	3,301	6,377	183.86	3,581	8,166
183.35	3,306	6,410	183.87	3,586	8,202
183.36	3,312	6,443	183.88	3,591	8,238
183.37	3,317	6,476	183.89	3,597	8,274
183.38	3,322	6,510	183.90	3,602	8,310
183.39	3,328	6,543	183.91	3,608	8,346
183.40	3,333	6,576	183.92	3,613	8,382
183.41	3,339	6,609	183.93	3,618	8,418
183.42	3,344	6,643	183.94	3,624	8,454
183.43	3,349	6,676	183.95	3,629	8,491
183.44	3,355	6,710	183.96	3,634	8,527
183.45	3,360	6,743	183.97	3,640	8,563
183.46	3,365	6,777	183.98	3,645	8,600
183.47	3,371	6,811	183.99	3,651	8,636
183.48	3,376	6,844	184.00	3,656	8,673
183.49	3,382	6,878	184.01	3,662	8,709
183.50	3,387	6,912	184.02	3,667	8,746
183.51	3,392	6,946	184.03	3,673	8,783
183.52	3,398	6,980	184.04	3,679	8,820
183.53	3,403	7,014	184.05	3,685	8,856
183.54	3,409	7,048	184.06	3,690	8,893
183.55	3,414	7,082	184.07	3,696	8,930

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.08	3,702	8,967	184.60	3,999	10,969
184.09	3,707	9,004	184.61	4,004	11,009
184.10	3,713	9,041	184.62	4,010	11,049
184.11	3,719	9,078	184.63	4,016	11,089
184.12	3,725	9,116	184.64	4,021	11,130
184.13	3,730	9,153	184.65	4,027	11,170
184.14	3,736	9,190	184.66	4,033	11,210
184.15	3,742	9,228	184.67	4,039	11,251
184.16	3,747	9,265	184.68	4,044	11,291
184.17	3,753	9,303	184.69	4,050	11,331
184.18	3,759	9,340	184.70	4,056	11,372
184.19	3,764	9,378	184.71	4,061	11,413
184.20	3,770	9,415	184.72	4,067	11,453
184.21	3,776	9,453	184.73	4,073	11,494
184.22	3,782	9,491	184.74	4,079	11,535
184.23	3,787	9,529	184.75	4,084	11,575
184.24	3,793	9,567	184.76	4,090	11,616
184.25	3,799	9,605	184.77	4,096	11,657
184.26	3,804	9,643	184.78	4,101	11,698
184.27	3,810	9,681	184.79	4,107	11,739
184.28	3,816	9,719	184.80	4,113	11,780
184.29	3,822	9,757	184.81	4,119	11,822
184.30	3,827	9,795	184.82	4,124	11,863
184.31	3,833	9,834	184.83	4,130	11,904
184.32	3,839	9,872	184.84	4,136	11,945
184.33	3,844	9,910	184.85	4,141	11,987
184.34	3,850	9,949	184.86	4,147	12,028
184.35	3,856	9,987	184.87	4,153	12,070
184.36	3,862	10,026	184.88	4,158	12,111
184.37	3,867	10,065	184.89	4,164	12,153
184.38	3,873	10,103	184.90	4,170	12,194
184.39	3,879	10,142	184.91	4,176	12,236
184.40	3,884	10,181	184.92	4,181	12,278
184.41	3,890	10,220	184.93	4,187	12,320
184.42	3,896	10,259	184.94	4,193	12,362
184.43	3,902	10,298	184.95	4,198	12,404
184.44	3,907	10,337	184.96	4,204	12,446
184.45	3,913	10,376	184.97	4,210	12,488
184.46	3,919	10,415	184.98	4,216	12,530
184.47	3,924	10,454	184.99	4,221	12,572
184.48	3,930	10,493	185.00	4,227	12,614
184.49	3,936	10,533	185.01	4,233	12,657
184.50	3,942	10,572	185.02	4,239	12,699
184.51	3,947	10,612	185.03	4,245	12,741
184.52	3,953	10,651	185.04	4,251	12,784
184.53	3,959	10,691	185.05	4,257	12,826
184.54	3,964	10,730	185.06	4,263	12,869
184.55	3,970	10,770	185.07	4,269	12,912
184.56	3,976	10,810	185.08	4,275	12,954
184.57	3,981	10,850	185.09	4,281	12,997
184.58	3,987	10,889	185.10	4,287	13,040
184.59	3,993	10,929	185.11	4,293	13,083

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.12	4,299	13,126	185.64	4,614	15,443
185.13	4,306	13,169	185.65	4,620	15,489
185.14	4,312	13,212	185.66	4,626	15,536
185.15	4,318	13,255	185.67	4,632	15,582
185.16	4,324	13,298	185.68	4,638	15,628
185.17	4,330	13,342	185.69	4,644	15,675
185.18	4,336	13,385	185.70	4,650	15,721
185.19	4,342	13,428	185.71	4,656	15,768
185.20	4,348	13,472	185.72	4,662	15,814
185.21	4,354	13,515	185.73	4,668	15,861
185.22	4,360	13,559	185.74	4,674	15,908
185.23	4,366	13,603	185.75	4,680	15,954
185.24	4,372	13,646	185.76	4,686	16,001
185.25	4,378	13,690	185.77	4,692	16,048
185.26	4,384	13,734	185.78	4,698	16,095
185.27	4,390	13,778	185.79	4,704	16,142
185.28	4,396	13,822	185.80	4,710	16,189
185.29	4,402	13,866	185.81	4,716	16,236
185.30	4,408	13,910	185.82	4,722	16,284
185.31	4,414	13,954	185.83	4,728	16,331
185.32	4,420	13,998	185.84	4,734	16,378
185.33	4,426	14,042	185.85	4,740	16,425
185.34	4,432	14,086	185.86	4,746	16,473
185.35	4,438	14,131	185.87	4,752	16,520
185.36	4,444	14,175	185.88	4,759	16,568
185.37	4,450	14,220	185.89	4,765	16,616
185.38	4,457	14,264	185.90	4,771	16,663
185.39	4,463	14,309	185.91	4,777	16,711
185.40	4,469	14,353	185.92	4,783	16,759
185.41	4,475	14,398	185.93	4,789	16,807
185.42	4,481	14,443	185.94	4,795	16,855
185.43	4,487	14,488	185.95	4,801	16,903
185.44	4,493	14,533	185.96	4,807	16,951
185.45	4,499	14,578	185.97	4,813	16,999
185.46	4,505	14,623	185.98	4,819	17,047
185.47	4,511	14,668	185.99	4,825	17,095
185.48	4,517	14,713	186.00	4,831	17,143
185.49	4,523	14,758	186.01	4,837	17,192
185.50	4,529	14,803	186.02	4,844	17,240
185.51	4,535	14,849	186.03	4,850	17,289
185.52	4,541	14,894	186.04	4,856	17,337
185.53	4,547	14,939	186.05	4,863	17,386
185.54	4,553	14,985	186.06	4,869	17,434
185.55	4,559	15,031	186.07	4,876	17,483
185.56	4,565	15,076	186.08	4,882	17,532
185.57	4,571	15,122	186.09	4,888	17,581
185.58	4,577	15,168	186.10	4,895	17,630
185.59	4,583	15,213	186.11	4,901	17,679
185.60	4,589	15,259	186.12	4,907	17,728
185.61	4,595	15,305	186.13	4,914	17,777
185.62	4,601	15,351	186.14	4,920	17,826
185.63	4,608	15,397	186.15	4,927	17,875

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.16	4,933	17,924
186.17	4,939	17,974
186.18	4,946	18,023
186.19	4,952	18,073
186.20	4,958	18,122
186.21	4,965	18,172
186.22	4,971	18,222
186.23	4,978	18,271
186.24	4,984	18,321
186.25	4,990	18,371
186.26	4,997	18,421
186.27	5,003	18,471
186.28	5,009	18,521
186.29	5,016	18,571
186.30	5,022	18,621
186.31	5,028	18,672
186.32	5,035	18,722
186.33	5,041	18,772
186.34	5,048	18,823
186.35	5,054	18,873
186.36	5,060	18,924
186.37	5,067	18,974
186.38	5,073	19,025
186.39	5,079	19,076
186.40	5,086	19,127
186.41	5,092	19,178
186.42	5,099	19,229
186.43	5,105	19,280
186.44	5,111	19,331
186.45	5,118	19,382
186.46	5,124	19,433
186.47	5,130	19,484
186.48	5,137	19,536
186.49	5,143	19,587
186.50	5,150	19,638
186.51	5,156	19,690
186.52	5,162	19,742
186.53	5,169	19,793
186.54	5,175	19,845
186.55	5,181	19,897
186.56	5,188	19,949
186.57	5,194	20,000
186.58	5,200	20,052
186.59	5,207	20,104
186.60	5,213	20,157
186.61	5,220	20,209
186.62	5,226	20,261
186.63	5,232	20,313
186.64	5,239	20,366
186.65	5,245	20,418
186.66	5,251	20,471
186.67	5,258	20,523
186.68	5,264	20,576
186.69	5,271	20,628
186.70	5,277	20,681
186.71	5,283	20,734
186.72	5,290	20,787
186.73	5,296	20,840
186.74	5,302	20,893
186.75	5,309	20,946
186.76	5,315	20,999
186.77	5,321	21,052
186.78	5,328	21,105
186.79	5,334	21,159
186.80	5,341	21,212
186.81	5,347	21,265
186.82	5,353	21,319
186.83	5,360	21,372
186.84	5,366	21,426
186.85	5,372	21,480
186.86	5,379	21,534
186.87	5,385	21,587
186.88	5,392	21,641
186.89	5,398	21,695
186.90	5,404	21,749
186.91	5,411	21,803
186.92	5,417	21,857
186.93	5,423	21,912
186.94	5,430	21,966
186.95	5,436	22,020
186.96	5,443	22,075
186.97	5,449	22,129
186.98	5,455	22,184
186.99	5,462	22,238
187.00	**5,468**	**22,293**

Summary for Pond B-43: Basin #43

Inflow Area = 2.712 ac, 33.89% Impervious, Inflow Depth = 2.21" for Future 2 yr event
Inflow = 6.11 cfs @ 12.17 hrs, Volume= 0.499 af
Outflow = 1.73 cfs @ 12.53 hrs, Volume= 0.389 af, Atten= 72%, Lag= 21.1 min
Primary = 1.73 cfs @ 12.53 hrs, Volume= 0.389 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 178.82' @ 12.53 hrs Surf.Area= 6,035 sf Storage= 10,982 cf

Plug-Flow detention time= 425.2 min calculated for 0.389 af (78% of inflow)
Center-of-Mass det. time= 337.7 min (1,140.0 - 802.3)

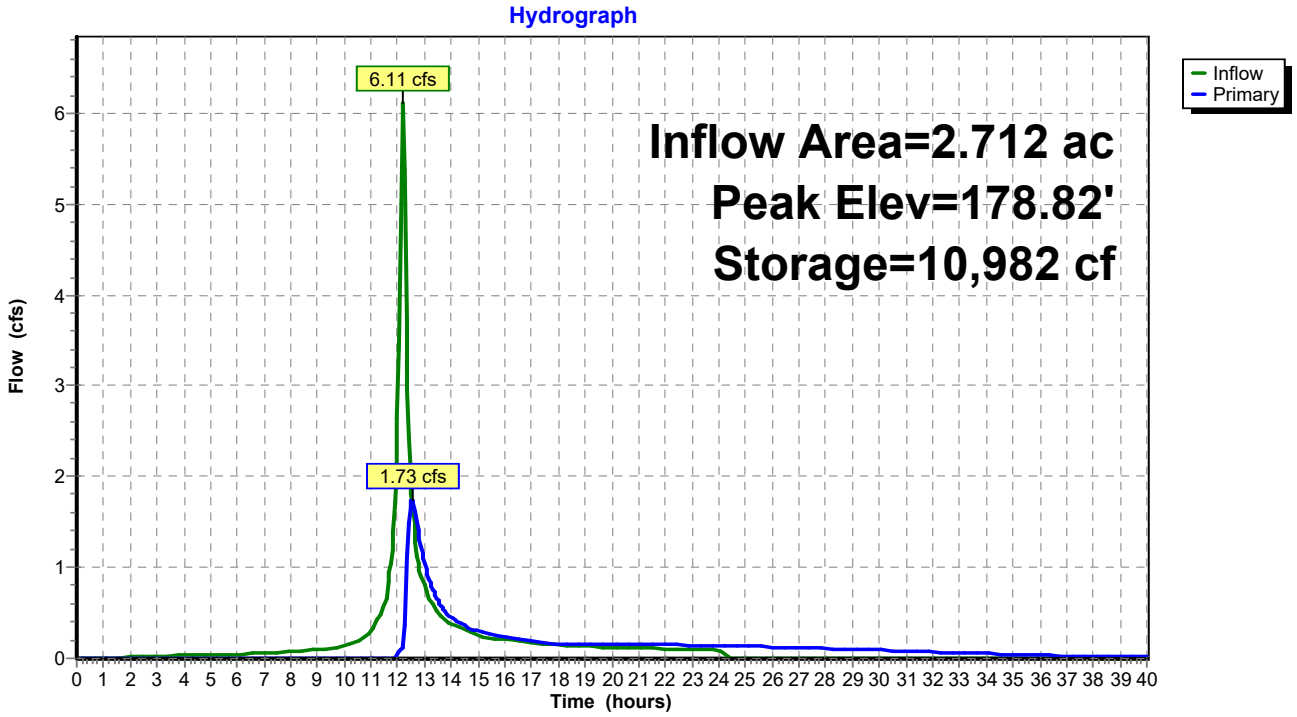
Volume	Invert	Avail.Storage	Storage Description
#1	176.35'	26,392 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
176.35	0	0	0
177.00	4,447	1,445	1,445
178.00	5,292	4,870	6,315
179.00	6,194	5,743	12,058
180.00	7,153	6,674	18,731
181.00	8,168	7,661	26,392

Device	Routing	Invert	Outlet Devices
#1	Primary	176.30'	**18.0" Round Culvert** L= 200.0' Ke= 0.500 Inlet / Outlet Invert= 176.30' / 166.10' S= 0.0510 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	177.62'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	178.58'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	180.00'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.72 cfs @ 12.53 hrs HW=178.82' (Free Discharge)
- **1=Culvert** (Passes 1.72 cfs of 11.33 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.17 cfs @ 5.05 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 1.55 cfs @ 1.61 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-43: Basin #43



Stage-Discharge for Pond B-43: Basin #43

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
176.35	0.00	176.87	0.00	177.39	0.00	177.91	0.07
176.36	0.00	176.88	0.00	177.40	0.00	177.92	0.07
176.37	0.00	176.89	0.00	177.41	0.00	177.93	0.07
176.38	0.00	176.90	0.00	177.42	0.00	177.94	0.08
176.39	0.00	176.91	0.00	177.43	0.00	177.95	0.08
176.40	0.00	176.92	0.00	177.44	0.00	177.96	0.08
176.41	0.00	176.93	0.00	177.45	0.00	177.97	0.08
176.42	0.00	176.94	0.00	177.46	0.00	177.98	0.08
176.43	0.00	176.95	0.00	177.47	0.00	177.99	0.08
176.44	0.00	176.96	0.00	177.48	0.00	178.00	0.09
176.45	0.00	176.97	0.00	177.49	0.00	178.01	0.09
176.46	0.00	176.98	0.00	177.50	0.00	178.02	0.09
176.47	0.00	176.99	0.00	177.51	0.00	178.03	0.09
176.48	0.00	177.00	0.00	177.52	0.00	178.04	0.09
176.49	0.00	177.01	0.00	177.53	0.00	178.05	0.09
176.50	0.00	177.02	0.00	177.54	0.00	178.06	0.10
176.51	0.00	177.03	0.00	177.55	0.00	178.07	0.10
176.52	0.00	177.04	0.00	177.56	0.00	178.08	0.10
176.53	0.00	177.05	0.00	177.57	0.00	178.09	0.10
176.54	0.00	177.06	0.00	177.58	0.00	178.10	0.10
176.55	0.00	177.07	0.00	177.59	0.00	178.11	0.10
176.56	0.00	177.08	0.00	177.60	0.00	178.12	0.10
176.57	0.00	177.09	0.00	177.61	0.00	178.13	0.10
176.58	0.00	177.10	0.00	177.62	0.00	178.14	0.11
176.59	0.00	177.11	0.00	177.63	0.00	178.15	0.11
176.60	0.00	177.12	0.00	177.64	0.00	178.16	0.11
176.61	0.00	177.13	0.00	177.65	0.00	178.17	0.11
176.62	0.00	177.14	0.00	177.66	0.00	178.18	0.11
176.63	0.00	177.15	0.00	177.67	0.00	178.19	0.11
176.64	0.00	177.16	0.00	177.68	0.01	178.20	0.11
176.65	0.00	177.17	0.00	177.69	0.01	178.21	0.11
176.66	0.00	177.18	0.00	177.70	0.01	178.22	0.12
176.67	0.00	177.19	0.00	177.71	0.01	178.23	0.12
176.68	0.00	177.20	0.00	177.72	0.02	178.24	0.12
176.69	0.00	177.21	0.00	177.73	0.02	178.25	0.12
176.70	0.00	177.22	0.00	177.74	0.02	178.26	0.12
176.71	0.00	177.23	0.00	177.75	0.03	178.27	0.12
176.72	0.00	177.24	0.00	177.76	0.03	178.28	0.12
176.73	0.00	177.25	0.00	177.77	0.03	178.29	0.12
176.74	0.00	177.26	0.00	177.78	0.04	178.30	0.12
176.75	0.00	177.27	0.00	177.79	0.04	178.31	0.13
176.76	0.00	177.28	0.00	177.80	0.05	178.32	0.13
176.77	0.00	177.29	0.00	177.81	0.05	178.33	0.13
176.78	0.00	177.30	0.00	177.82	0.05	178.34	0.13
176.79	0.00	177.31	0.00	177.83	0.05	178.35	0.13
176.80	0.00	177.32	0.00	177.84	0.06	178.36	0.13
176.81	0.00	177.33	0.00	177.85	0.06	178.37	0.13
176.82	0.00	177.34	0.00	177.86	0.06	178.38	0.13
176.83	0.00	177.35	0.00	177.87	0.06	178.39	0.13
176.84	0.00	177.36	0.00	177.88	0.06	178.40	0.13
176.85	0.00	177.37	0.00	177.89	0.07	178.41	0.14
176.86	0.00	177.38	0.00	177.90	0.07	178.42	0.14

Stage-Discharge for Pond B-43: Basin #43 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
178.43	0.14	178.95	3.07	179.47	10.71	179.99	14.59
178.44	0.14	178.96	3.19	179.48	10.88	180.00	14.61
178.45	0.14	178.97	3.31	179.49	11.06	180.01	14.76
178.46	0.14	178.98	3.43	179.50	11.23	180.02	14.99
178.47	0.14	178.99	3.55	179.51	11.40	180.03	15.30
178.48	0.14	179.00	3.67	179.52	11.58	180.04	15.65
178.49	0.14	179.01	3.79	179.53	11.76	180.05	16.05
178.50	0.14	179.02	3.92	179.54	11.93	180.06	16.49
178.51	0.15	179.03	4.05	179.55	12.11	180.07	16.96
178.52	0.15	179.04	4.18	179.56	12.29	180.08	17.47
178.53	0.15	179.05	4.30	179.57	12.47	180.09	18.01
178.54	0.15	179.06	4.44	179.58	12.65	180.10	18.58
178.55	0.15	179.07	4.57	179.59	12.83	180.11	19.18
178.56	0.15	179.08	4.70	179.60	13.01	180.12	19.80
178.57	0.15	179.09	4.83	179.61	13.19	180.13	20.45
178.58	0.15	179.10	4.97	179.62	13.38	180.14	21.13
178.59	0.17	179.11	5.11	179.63	13.56	180.15	21.83
178.60	0.19	179.12	5.24	179.64	13.69	180.16	22.55
178.61	0.22	179.13	5.38	179.65	13.72	180.17	23.30
178.62	0.26	179.14	5.52	179.66	13.75	180.18	24.07
178.63	0.30	179.15	5.66	179.67	13.77	180.19	24.86
178.64	0.35	179.16	5.81	179.68	13.80	180.20	25.67
178.65	0.40	179.17	5.95	179.69	13.83	180.21	26.54
178.66	0.45	179.18	6.09	179.70	13.85	180.22	27.43
178.67	0.51	179.19	6.24	179.71	13.88	180.23	28.36
178.68	0.57	179.20	6.39	179.72	13.90	180.24	29.30
178.69	0.64	179.21	6.53	179.73	13.93	180.25	30.27
178.70	0.70	179.22	6.68	179.74	13.96	180.26	31.27
178.71	0.77	179.23	6.83	179.75	13.98	180.27	32.29
178.72	0.84	179.24	6.98	179.76	14.01	180.28	33.34
178.73	0.92	179.25	7.14	179.77	14.03	180.29	34.41
178.74	1.00	179.26	7.29	179.78	14.06	180.30	35.51
178.75	1.08	179.27	7.44	179.79	14.08	180.31	36.63
178.76	1.16	179.28	7.60	179.80	14.11	180.32	37.77
178.77	1.24	179.29	7.75	179.81	14.14	180.33	38.94
178.78	1.33	179.30	7.91	179.82	14.16	180.34	40.14
178.79	1.41	179.31	8.07	179.83	14.19	180.35	41.35
178.80	1.51	179.32	8.23	179.84	14.21	180.36	42.60
178.81	1.60	179.33	8.39	179.85	14.24	180.37	43.86
178.82	1.69	179.34	8.55	179.86	14.26	180.38	45.15
178.83	1.79	179.35	8.71	179.87	14.29	180.39	46.47
178.84	1.88	179.36	8.87	179.88	14.31	180.40	47.80
178.85	1.98	179.37	9.03	179.89	14.34	180.41	49.19
178.86	2.09	179.38	9.20	179.90	14.36	180.42	50.61
178.87	2.19	179.39	9.36	179.91	14.39	180.43	52.05
178.88	2.29	179.40	9.53	179.92	14.41	180.44	53.52
178.89	2.40	179.41	9.69	179.93	14.44	180.45	55.01
178.90	2.51	179.42	9.86	179.94	14.46	180.46	56.53
178.91	2.62	179.43	10.03	179.95	14.49	180.47	58.07
178.92	2.73	179.44	10.20	179.96	14.51	180.48	59.65
178.93	2.84	179.45	10.37	179.97	14.54	180.49	61.24
178.94	2.96	179.46	10.54	179.98	14.56	180.50	62.87

Stage-Discharge for Pond B-43: Basin #43 (continued)

Elevation (feet)	Primary (cfs)
180.51	64.52
180.52	66.20
180.53	67.90
180.54	69.63
180.55	71.39
180.56	73.18
180.57	74.99
180.58	76.82
180.59	78.69
180.60	80.58
180.61	82.23
180.62	83.89
180.63	85.57
180.64	87.26
180.65	88.96
180.66	90.68
180.67	92.41
180.68	94.15
180.69	95.91
180.70	97.67
180.71	99.46
180.72	101.25
180.73	103.05
180.74	104.87
180.75	106.70
180.76	108.55
180.77	110.40
180.78	112.27
180.79	114.15
180.80	116.04
180.81	117.98
180.82	119.94
180.83	121.91
180.84	123.89
180.85	125.88
180.86	127.89
180.87	129.91
180.88	131.94
180.89	133.99
180.90	136.05
180.91	138.12
180.92	140.21
180.93	142.30
180.94	144.41
180.95	146.54
180.96	148.67
180.97	150.82
180.98	152.98
180.99	155.16
181.00	**157.34**

Stage-Area-Storage for Pond B-43: Basin #43

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
176.35	0	0	176.87	3,558	925
176.36	68	0	176.88	3,626	961
176.37	137	1	176.89	3,694	997
176.38	205	3	176.90	3,763	1,035
176.39	274	5	176.91	3,831	1,073
176.40	342	9	176.92	3,900	1,111
176.41	410	12	176.93	3,968	1,151
176.42	479	17	176.94	4,037	1,191
176.43	547	22	176.95	4,105	1,231
176.44	616	28	176.96	4,173	1,273
176.45	684	34	176.97	4,242	1,315
176.46	753	41	176.98	4,310	1,358
176.47	821	49	176.99	4,379	1,401
176.48	889	58	177.00	4,447	1,445
176.49	958	67	177.01	4,455	1,490
176.50	1,026	77	177.02	4,464	1,534
176.51	1,095	88	177.03	4,472	1,579
176.52	1,163	99	177.04	4,481	1,624
176.53	1,231	111	177.05	4,489	1,669
176.54	1,300	123	177.06	4,498	1,714
176.55	1,368	137	177.07	4,506	1,759
176.56	1,437	151	177.08	4,515	1,804
176.57	1,505	166	177.09	4,523	1,849
176.58	1,574	181	177.10	4,531	1,894
176.59	1,642	197	177.11	4,540	1,940
176.60	1,710	214	177.12	4,548	1,985
176.61	1,779	231	177.13	4,557	2,031
176.62	1,847	249	177.14	4,565	2,076
176.63	1,916	268	177.15	4,574	2,122
176.64	1,984	288	177.16	4,582	2,168
176.65	2,052	308	177.17	4,591	2,213
176.66	2,121	329	177.18	4,599	2,259
176.67	2,189	350	177.19	4,608	2,305
176.68	2,258	373	177.20	4,616	2,352
176.69	2,326	395	177.21	4,624	2,398
176.70	2,395	419	177.22	4,633	2,444
176.71	2,463	443	177.23	4,641	2,490
176.72	2,531	468	177.24	4,650	2,537
176.73	2,600	494	177.25	4,658	2,583
176.74	2,668	520	177.26	4,667	2,630
176.75	2,737	547	177.27	4,675	2,677
176.76	2,805	575	177.28	4,684	2,724
176.77	2,873	603	177.29	4,692	2,770
176.78	2,942	633	177.30	4,700	2,817
176.79	3,010	662	177.31	4,709	2,864
176.80	3,079	693	177.32	4,717	2,912
176.81	3,147	724	177.33	4,726	2,959
176.82	3,216	756	177.34	4,734	3,006
176.83	3,284	788	177.35	4,743	3,053
176.84	3,352	821	177.36	4,751	3,101
176.85	3,421	855	177.37	4,760	3,149
176.86	3,489	890	177.38	4,768	3,196

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
177.39	4,777	3,244	177.91	5,216	5,842
177.40	4,785	3,292	177.92	5,224	5,894
177.41	4,793	3,340	177.93	5,233	5,946
177.42	4,802	3,388	177.94	5,241	5,999
177.43	4,810	3,436	177.95	5,250	6,051
177.44	4,819	3,484	177.96	5,258	6,104
177.45	4,827	3,532	177.97	5,267	6,156
177.46	4,836	3,580	177.98	5,275	6,209
177.47	4,844	3,629	177.99	5,284	6,262
177.48	4,853	3,677	178.00	5,292	6,315
177.49	4,861	3,726	178.01	5,301	6,368
177.50	4,870	3,774	178.02	5,310	6,421
177.51	4,878	3,823	178.03	5,319	6,474
177.52	4,886	3,872	178.04	5,328	6,527
177.53	4,895	3,921	178.05	5,337	6,581
177.54	4,903	3,970	178.06	5,346	6,634
177.55	4,912	4,019	178.07	5,355	6,687
177.56	4,920	4,068	178.08	5,364	6,741
177.57	4,929	4,117	178.09	5,373	6,795
177.58	4,937	4,167	178.10	5,382	6,848
177.59	4,946	4,216	178.11	5,391	6,902
177.60	4,954	4,266	178.12	5,400	6,956
177.61	4,962	4,315	178.13	5,409	7,010
177.62	4,971	4,365	178.14	5,418	7,064
177.63	4,979	4,415	178.15	5,427	7,119
177.64	4,988	4,464	178.16	5,436	7,173
177.65	4,996	4,514	178.17	5,445	7,227
177.66	5,005	4,564	178.18	5,454	7,282
177.67	5,013	4,614	178.19	5,463	7,337
177.68	5,022	4,665	178.20	5,472	7,391
177.69	5,030	4,715	178.21	5,481	7,446
177.70	5,038	4,765	178.22	5,490	7,501
177.71	5,047	4,816	178.23	5,499	7,556
177.72	5,055	4,866	178.24	5,508	7,611
177.73	5,064	4,917	178.25	5,518	7,666
177.74	5,072	4,967	178.26	5,527	7,721
177.75	5,081	5,018	178.27	5,536	7,776
177.76	5,089	5,069	178.28	5,545	7,832
177.77	5,098	5,120	178.29	5,554	7,887
177.78	5,106	5,171	178.30	5,563	7,943
177.79	5,115	5,222	178.31	5,572	7,999
177.80	5,123	5,273	178.32	5,581	8,054
177.81	5,131	5,325	178.33	5,590	8,110
177.82	5,140	5,376	178.34	5,599	8,166
177.83	5,148	5,427	178.35	5,608	8,222
177.84	5,157	5,479	178.36	5,617	8,278
177.85	5,165	5,530	178.37	5,626	8,335
177.86	5,174	5,582	178.38	5,635	8,391
177.87	5,182	5,634	178.39	5,644	8,447
177.88	5,191	5,686	178.40	5,653	8,504
177.89	5,199	5,738	178.41	5,662	8,560
177.90	5,208	5,790	178.42	5,671	8,617

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.43	5,680	8,674	178.95	6,149	11,749
178.44	5,689	8,731	178.96	6,158	11,811
178.45	5,698	8,788	178.97	6,167	11,872
178.46	5,707	8,845	178.98	6,176	11,934
178.47	5,716	8,902	178.99	6,185	11,996
178.48	5,725	8,959	179.00	6,194	12,058
178.49	5,734	9,016	179.01	6,204	12,120
178.50	5,743	9,074	179.02	6,213	12,182
178.51	5,752	9,131	179.03	6,223	12,244
178.52	5,761	9,189	179.04	6,232	12,306
178.53	5,770	9,246	179.05	6,242	12,369
178.54	5,779	9,304	179.06	6,252	12,431
178.55	5,788	9,362	179.07	6,261	12,494
178.56	5,797	9,420	179.08	6,271	12,556
178.57	5,806	9,478	179.09	6,280	12,619
178.58	5,815	9,536	179.10	6,290	12,682
178.59	5,824	9,594	179.11	6,299	12,745
178.60	5,833	9,652	179.12	6,309	12,808
178.61	5,842	9,711	179.13	6,319	12,871
178.62	5,851	9,769	179.14	6,328	12,934
178.63	5,860	9,828	179.15	6,338	12,998
178.64	5,869	9,886	179.16	6,347	13,061
178.65	5,878	9,945	179.17	6,357	13,125
178.66	5,887	10,004	179.18	6,367	13,188
178.67	5,896	10,063	179.19	6,376	13,252
178.68	5,905	10,122	179.20	6,386	13,316
178.69	5,914	10,181	179.21	6,395	13,380
178.70	5,923	10,240	179.22	6,405	13,444
178.71	5,932	10,299	179.23	6,415	13,508
178.72	5,941	10,359	179.24	6,424	13,572
178.73	5,950	10,418	179.25	6,434	13,636
178.74	5,959	10,478	179.26	6,443	13,701
178.75	5,969	10,537	179.27	6,453	13,765
178.76	5,978	10,597	179.28	6,463	13,830
178.77	5,987	10,657	179.29	6,472	13,894
178.78	5,996	10,717	179.30	6,482	13,959
178.79	6,005	10,777	179.31	6,491	14,024
178.80	6,014	10,837	179.32	6,501	14,089
178.81	6,023	10,897	179.33	6,510	14,154
178.82	6,032	10,957	179.34	6,520	14,219
178.83	6,041	11,018	179.35	6,530	14,284
178.84	6,050	11,078	179.36	6,539	14,350
178.85	6,059	11,139	179.37	6,549	14,415
178.86	6,068	11,199	179.38	6,558	14,481
178.87	6,077	11,260	179.39	6,568	14,546
178.88	6,086	11,321	179.40	6,578	14,612
178.89	6,095	11,382	179.41	6,587	14,678
178.90	6,104	11,443	179.42	6,597	14,744
178.91	6,113	11,504	179.43	6,606	14,810
178.92	6,122	11,565	179.44	6,616	14,876
178.93	6,131	11,626	179.45	6,626	14,942
178.94	6,140	11,688	179.46	6,635	15,008

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.47	6,645	15,075	179.99	7,143	18,660
179.48	6,654	15,141	180.00	7,153	18,731
179.49	6,664	15,208	180.01	7,163	18,803
179.50	6,674	15,275	180.02	7,173	18,875
179.51	6,683	15,341	180.03	7,183	18,946
179.52	6,693	15,408	180.04	7,194	19,018
179.53	6,702	15,475	180.05	7,204	19,090
179.54	6,712	15,542	180.06	7,214	19,162
179.55	6,721	15,610	180.07	7,224	19,234
179.56	6,731	15,677	180.08	7,234	19,307
179.57	6,741	15,744	180.09	7,244	19,379
179.58	6,750	15,812	180.10	7,254	19,452
179.59	6,760	15,879	180.11	7,265	19,524
179.60	6,769	15,947	180.12	7,275	19,597
179.61	6,779	16,015	180.13	7,285	19,670
179.62	6,789	16,082	180.14	7,295	19,743
179.63	6,798	16,150	180.15	7,305	19,816
179.64	6,808	16,218	180.16	7,315	19,889
179.65	6,817	16,286	180.17	7,326	19,962
179.66	6,827	16,355	180.18	7,336	20,035
179.67	6,837	16,423	180.19	7,346	20,109
179.68	6,846	16,491	180.20	7,356	20,182
179.69	6,856	16,560	180.21	7,366	20,256
179.70	6,865	16,629	180.22	7,376	20,329
179.71	6,875	16,697	180.23	7,386	20,403
179.72	6,884	16,766	180.24	7,397	20,477
179.73	6,894	16,835	180.25	7,407	20,551
179.74	6,904	16,904	180.26	7,417	20,625
179.75	6,913	16,973	180.27	7,427	20,700
179.76	6,923	17,042	180.28	7,437	20,774
179.77	6,932	17,111	180.29	7,447	20,848
179.78	6,942	17,181	180.30	7,457	20,923
179.79	6,952	17,250	180.31	7,468	20,997
179.80	6,961	17,320	180.32	7,478	21,072
179.81	6,971	17,390	180.33	7,488	21,147
179.82	6,980	17,459	180.34	7,498	21,222
179.83	6,990	17,529	180.35	7,508	21,297
179.84	7,000	17,599	180.36	7,518	21,372
179.85	7,009	17,669	180.37	7,529	21,447
179.86	7,019	17,739	180.38	7,539	21,523
179.87	7,028	17,809	180.39	7,549	21,598
179.88	7,038	17,880	180.40	7,559	21,674
179.89	7,048	17,950	180.41	7,569	21,749
179.90	7,057	18,021	180.42	7,579	21,825
179.91	7,067	18,091	180.43	7,589	21,901
179.92	7,076	18,162	180.44	7,600	21,977
179.93	7,086	18,233	180.45	7,610	22,053
179.94	7,095	18,304	180.46	7,620	22,129
179.95	7,105	18,375	180.47	7,630	22,205
179.96	7,115	18,446	180.48	7,640	22,282
179.97	7,124	18,517	180.49	7,650	22,358
179.98	7,134	18,588	180.50	7,661	22,435

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.51	7,671	22,511
180.52	7,681	22,588
180.53	7,691	22,665
180.54	7,701	22,742
180.55	7,711	22,819
180.56	7,721	22,896
180.57	7,732	22,973
180.58	7,742	23,051
180.59	7,752	23,128
180.60	7,762	23,206
180.61	7,772	23,283
180.62	7,782	23,361
180.63	7,792	23,439
180.64	7,803	23,517
180.65	7,813	23,595
180.66	7,823	23,673
180.67	7,833	23,752
180.68	7,843	23,830
180.69	7,853	23,908
180.70	7,863	23,987
180.71	7,874	24,066
180.72	7,884	24,145
180.73	7,894	24,223
180.74	7,904	24,302
180.75	7,914	24,381
180.76	7,924	24,461
180.77	7,935	24,540
180.78	7,945	24,619
180.79	7,955	24,699
180.80	7,965	24,778
180.81	7,975	24,858
180.82	7,985	24,938
180.83	7,995	25,018
180.84	8,006	25,098
180.85	8,016	25,178
180.86	8,026	25,258
180.87	8,036	25,339
180.88	8,046	25,419
180.89	8,056	25,499
180.90	8,067	25,580
180.91	8,077	25,661
180.92	8,087	25,742
180.93	8,097	25,823
180.94	8,107	25,904
180.95	8,117	25,985
180.96	8,127	26,066
180.97	8,138	26,147
180.98	8,148	26,229
180.99	8,158	26,310
181.00	**8,168**	**26,392**

Summary for Pond B-44: Basin #44

Inflow Area = 1.184 ac, 34.71% Impervious, Inflow Depth = 2.23" for Future 2 yr event
Inflow = 2.69 cfs @ 12.17 hrs, Volume= 0.220 af
Outflow = 0.09 cfs @ 16.03 hrs, Volume= 0.112 af, Atten= 97%, Lag= 231.5 min
Primary = 0.09 cfs @ 16.03 hrs, Volume= 0.112 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 166.81' @ 16.03 hrs Surf.Area= 6,363 sf Storage= 6,888 cf

Plug-Flow detention time= 608.8 min calculated for 0.112 af (51% of inflow)
Center-of-Mass det. time= 479.5 min (1,280.9 - 801.4)

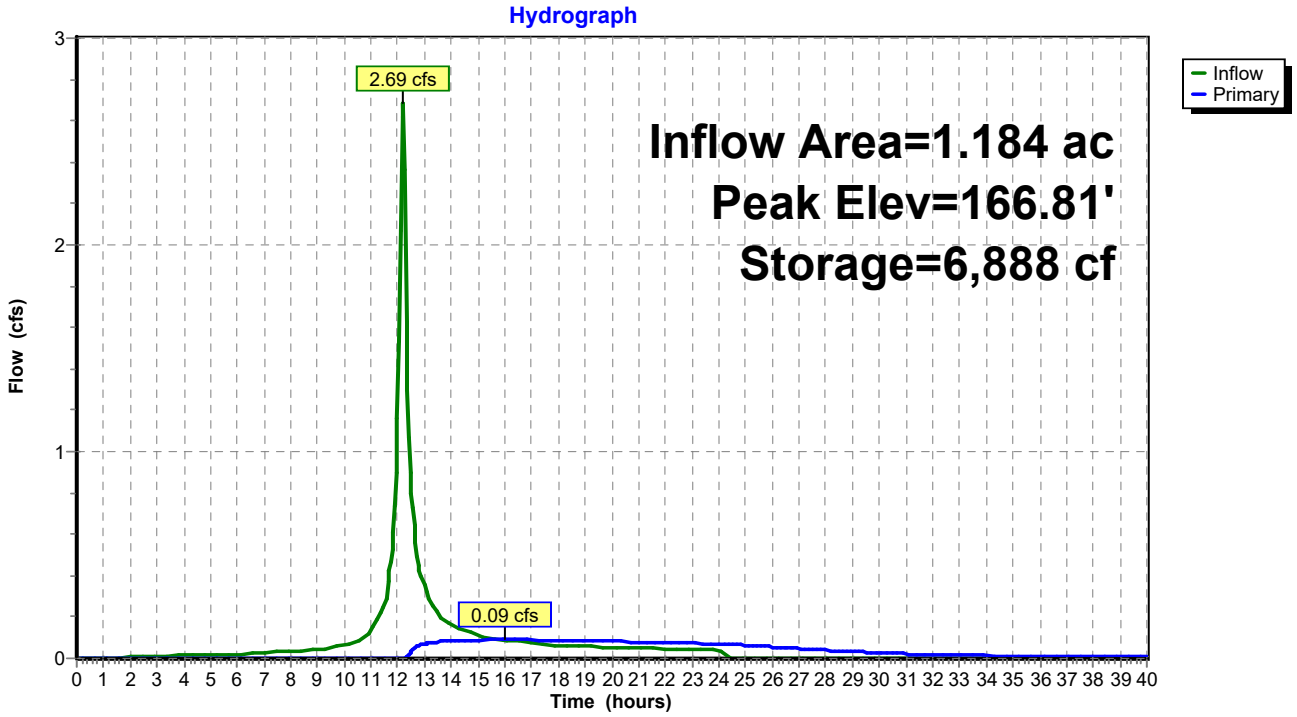
Volume	Invert	Avail.Storage	Storage Description
#1	165.30'	31,812 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
165.30	0	0	0
166.00	5,690	1,991	1,991
167.00	6,518	6,104	8,095
168.00	7,407	6,963	15,058
169.00	8,360	7,884	22,941
170.00	9,381	8,871	31,812

Device	Routing	Invert	Outlet Devices
#1	Primary	165.30'	**18.0" Round Culvert** L= 44.0' Ke= 0.500 Inlet / Outlet Invert= 165.30' / 164.00' S= 0.0295 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	166.41'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	167.50'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	168.98'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.09 cfs @ 16.03 hrs HW=166.81' (Free Discharge)
- **1=Culvert** (Passes 0.09 cfs of 7.43 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.09 cfs @ 2.63 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-44: Basin #44



Stage-Discharge for Pond B-44: Basin #44

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
165.30	0.00	165.82	0.00	166.34	0.00	166.86	0.10
165.31	0.00	165.83	0.00	166.35	0.00	166.87	0.10
165.32	0.00	165.84	0.00	166.36	0.00	166.88	0.10
165.33	0.00	165.85	0.00	166.37	0.00	166.89	0.10
165.34	0.00	165.86	0.00	166.38	0.00	166.90	0.10
165.35	0.00	165.87	0.00	166.39	0.00	166.91	0.10
165.36	0.00	165.88	0.00	166.40	0.00	166.92	0.10
165.37	0.00	165.89	0.00	166.41	0.00	166.93	0.11
165.38	0.00	165.90	0.00	166.42	0.00	166.94	0.11
165.39	0.00	165.91	0.00	166.43	0.00	166.95	0.11
165.40	0.00	165.92	0.00	166.44	0.00	166.96	0.11
165.41	0.00	165.93	0.00	166.45	0.00	166.97	0.11
165.42	0.00	165.94	0.00	166.46	0.00	166.98	0.11
165.43	0.00	165.95	0.00	166.47	0.01	166.99	0.11
165.44	0.00	165.96	0.00	166.48	0.01	167.00	0.11
165.45	0.00	165.97	0.00	166.49	0.01	167.01	0.12
165.46	0.00	165.98	0.00	166.50	0.01	167.02	0.12
165.47	0.00	165.99	0.00	166.51	0.02	167.03	0.12
165.48	0.00	166.00	0.00	166.52	0.02	167.04	0.12
165.49	0.00	166.01	0.00	166.53	0.02	167.05	0.12
165.50	0.00	166.02	0.00	166.54	0.03	167.06	0.12
165.51	0.00	166.03	0.00	166.55	0.03	167.07	0.12
165.52	0.00	166.04	0.00	166.56	0.03	167.08	0.12
165.53	0.00	166.05	0.00	166.57	0.04	167.09	0.12
165.54	0.00	166.06	0.00	166.58	0.04	167.10	0.13
165.55	0.00	166.07	0.00	166.59	0.05	167.11	0.13
165.56	0.00	166.08	0.00	166.60	0.05	167.12	0.13
165.57	0.00	166.09	0.00	166.61	0.05	167.13	0.13
165.58	0.00	166.10	0.00	166.62	0.05	167.14	0.13
165.59	0.00	166.11	0.00	166.63	0.06	167.15	0.13
165.60	0.00	166.12	0.00	166.64	0.06	167.16	0.13
165.61	0.00	166.13	0.00	166.65	0.06	167.17	0.13
165.62	0.00	166.14	0.00	166.66	0.06	167.18	0.13
165.63	0.00	166.15	0.00	166.67	0.06	167.19	0.13
165.64	0.00	166.16	0.00	166.68	0.07	167.20	0.14
165.65	0.00	166.17	0.00	166.69	0.07	167.21	0.14
165.66	0.00	166.18	0.00	166.70	0.07	167.22	0.14
165.67	0.00	166.19	0.00	166.71	0.07	167.23	0.14
165.68	0.00	166.20	0.00	166.72	0.07	167.24	0.14
165.69	0.00	166.21	0.00	166.73	0.08	167.25	0.14
165.70	0.00	166.22	0.00	166.74	0.08	167.26	0.14
165.71	0.00	166.23	0.00	166.75	0.08	167.27	0.14
165.72	0.00	166.24	0.00	166.76	0.08	167.28	0.14
165.73	0.00	166.25	0.00	166.77	0.08	167.29	0.14
165.74	0.00	166.26	0.00	166.78	0.08	167.30	0.15
165.75	0.00	166.27	0.00	166.79	0.09	167.31	0.15
165.76	0.00	166.28	0.00	166.80	0.09	167.32	0.15
165.77	0.00	166.29	0.00	166.81	0.09	167.33	0.15
165.78	0.00	166.30	0.00	166.82	0.09	167.34	0.15
165.79	0.00	166.31	0.00	166.83	0.09	167.35	0.15
165.80	0.00	166.32	0.00	166.84	0.09	167.36	0.15
165.81	0.00	166.33	0.00	166.85	0.10	167.37	0.15

Stage-Discharge for Pond B-44: Basin #44 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
167.38	0.15	167.90	3.44	168.42	11.24	168.94	14.46
167.39	0.15	167.91	3.56	168.43	11.41	168.95	14.49
167.40	0.15	167.92	3.68	168.44	11.59	168.96	14.51
167.41	0.16	167.93	3.80	168.45	11.76	168.97	14.54
167.42	0.16	167.94	3.93	168.46	11.94	168.98	14.56
167.43	0.16	167.95	4.06	168.47	12.12	168.99	14.71
167.44	0.16	167.96	4.18	168.48	12.30	169.00	14.95
167.45	0.16	167.97	4.31	168.49	12.48	169.01	15.25
167.46	0.16	167.98	4.44	168.50	12.66	169.02	15.60
167.47	0.16	167.99	4.58	168.51	12.84	169.03	16.00
167.48	0.16	168.00	4.71	168.52	13.02	169.04	16.44
167.49	0.16	168.01	4.84	168.53	13.20	169.05	16.91
167.50	0.16	168.02	4.98	168.54	13.38	169.06	17.42
167.51	0.18	168.03	5.12	168.55	13.45	169.07	17.96
167.52	0.20	168.04	5.25	168.56	13.48	169.08	18.53
167.53	0.23	168.05	5.39	168.57	13.51	169.09	19.13
167.54	0.27	168.06	5.53	168.58	13.53	169.10	19.75
167.55	0.31	168.07	5.67	168.59	13.56	169.11	20.40
167.56	0.36	168.08	5.82	168.60	13.59	169.12	21.08
167.57	0.41	168.09	5.96	168.61	13.61	169.13	21.78
167.58	0.46	168.10	6.10	168.62	13.64	169.14	22.50
167.59	0.52	168.11	6.25	168.63	13.67	169.15	23.25
167.60	0.58	168.12	6.40	168.64	13.69	169.16	24.02
167.61	0.65	168.13	6.54	168.65	13.72	169.17	24.81
167.62	0.71	168.14	6.69	168.66	13.75	169.18	25.62
167.63	0.78	168.15	6.84	168.67	13.77	169.19	26.49
167.64	0.85	168.16	6.99	168.68	13.80	169.20	27.39
167.65	0.93	168.17	7.14	168.69	13.83	169.21	28.31
167.66	1.01	168.18	7.30	168.70	13.85	169.22	29.25
167.67	1.09	168.19	7.45	168.71	13.88	169.23	30.23
167.68	1.17	168.20	7.61	168.72	13.90	169.24	31.22
167.69	1.25	168.21	7.76	168.73	13.93	169.25	32.25
167.70	1.34	168.22	7.92	168.74	13.96	169.26	33.29
167.71	1.43	168.23	8.08	168.75	13.98	169.27	34.36
167.72	1.52	168.24	8.23	168.76	14.01	169.28	35.46
167.73	1.61	168.25	8.39	168.77	14.03	169.29	36.58
167.74	1.70	168.26	8.55	168.78	14.06	169.30	37.73
167.75	1.80	168.27	8.72	168.79	14.08	169.31	38.90
167.76	1.89	168.28	8.88	168.80	14.11	169.32	40.09
167.77	1.99	168.29	9.04	168.81	14.14	169.33	41.31
167.78	2.10	168.30	9.20	168.82	14.16	169.34	42.55
167.79	2.20	168.31	9.37	168.83	14.19	169.35	43.81
167.80	2.30	168.32	9.53	168.84	14.21	169.36	45.10
167.81	2.41	168.33	9.70	168.85	14.24	169.37	46.42
167.82	2.52	168.34	9.87	168.86	14.26	169.38	47.76
167.83	2.63	168.35	10.04	168.87	14.29	169.39	49.15
167.84	2.74	168.36	10.21	168.88	14.31	169.40	50.56
167.85	2.85	168.37	10.38	168.89	14.34	169.41	52.00
167.86	2.96	168.38	10.55	168.90	14.36	169.42	53.47
167.87	3.08	168.39	10.72	168.91	14.39	169.43	54.96
167.88	3.20	168.40	10.89	168.92	14.41	169.44	56.48
167.89	3.32	168.41	11.06	168.93	14.44	169.45	58.03

Stage-Discharge for Pond B-44: Basin #44 (continued)

Elevation (feet)	Primary (cfs)
169.46	59.60
169.47	61.20
169.48	62.82
169.49	64.47
169.50	66.15
169.51	67.86
169.52	69.59
169.53	71.35
169.54	73.13
169.55	74.94
169.56	76.78
169.57	78.64
169.58	80.54
169.59	82.19
169.60	83.85
169.61	85.52
169.62	87.21
169.63	88.92
169.64	90.63
169.65	92.36
169.66	94.11
169.67	95.86
169.68	97.63
169.69	99.41
169.70	101.20
169.71	103.01
169.72	104.83
169.73	106.66
169.74	108.50
169.75	110.36
169.76	112.23
169.77	114.11
169.78	116.00
169.79	117.94
169.80	119.89
169.81	121.86
169.82	123.84
169.83	125.84
169.84	127.85
169.85	129.87
169.86	131.90
169.87	133.95
169.88	136.01
169.89	138.08
169.90	140.16
169.91	142.26
169.92	144.37
169.93	146.49
169.94	148.63
169.95	150.78
169.96	152.94
169.97	155.11
169.98	157.30
169.99	159.45
170.00	**161.60**

Stage-Area-Storage for Pond B-44: Basin #44

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
165.30	0	0	165.82	4,227	1,099
165.31	81	0	165.83	4,308	1,142
165.32	163	2	165.84	4,389	1,185
165.33	244	4	165.85	4,471	1,229
165.34	325	7	165.86	4,552	1,275
165.35	406	10	165.87	4,633	1,320
165.36	488	15	165.88	4,715	1,367
165.37	569	20	165.89	4,796	1,415
165.38	650	26	165.90	4,877	1,463
165.39	732	33	165.91	4,958	1,512
165.40	813	41	165.92	5,040	1,562
165.41	894	49	165.93	5,121	1,613
165.42	975	59	165.94	5,202	1,665
165.43	1,057	69	165.95	5,284	1,717
165.44	1,138	80	165.96	5,365	1,770
165.45	1,219	91	165.97	5,446	1,824
165.46	1,301	104	165.98	5,527	1,879
165.47	1,382	117	165.99	5,609	1,935
165.48	1,463	132	166.00	5,690	1,991
165.49	1,544	147	166.01	5,698	2,048
165.50	1,626	163	166.02	5,707	2,105
165.51	1,707	179	166.03	5,715	2,163
165.52	1,788	197	166.04	5,723	2,220
165.53	1,870	215	166.05	5,731	2,277
165.54	1,951	234	166.06	5,740	2,334
165.55	2,032	254	166.07	5,748	2,392
165.56	2,113	275	166.08	5,756	2,449
165.57	2,195	296	166.09	5,765	2,507
165.58	2,276	319	166.10	5,773	2,565
165.59	2,357	342	166.11	5,781	2,622
165.60	2,439	366	166.12	5,789	2,680
165.61	2,520	391	166.13	5,798	2,738
165.62	2,601	416	166.14	5,806	2,796
165.63	2,682	443	166.15	5,814	2,854
165.64	2,764	470	166.16	5,822	2,912
165.65	2,845	498	166.17	5,831	2,971
165.66	2,926	527	166.18	5,839	3,029
165.67	3,008	556	166.19	5,847	3,088
165.68	3,089	587	166.20	5,856	3,146
165.69	3,170	618	166.21	5,864	3,205
165.70	3,251	650	166.22	5,872	3,263
165.71	3,333	683	166.23	5,880	3,322
165.72	3,414	717	166.24	5,889	3,381
165.73	3,495	751	166.25	5,897	3,440
165.74	3,577	787	166.26	5,905	3,499
165.75	3,658	823	166.27	5,914	3,558
165.76	3,739	860	166.28	5,922	3,617
165.77	3,820	898	166.29	5,930	3,676
165.78	3,902	936	166.30	5,938	3,736
165.79	3,983	976	166.31	5,947	3,795
165.80	4,064	1,016	166.32	5,955	3,855
165.81	4,146	1,057	166.33	5,963	3,914

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
166.34	5,972	3,974	166.86	6,402	7,191
166.35	5,980	4,034	166.87	6,410	7,255
166.36	5,988	4,094	166.88	6,419	7,319
166.37	5,996	4,153	166.89	6,427	7,384
166.38	6,005	4,213	166.90	6,435	7,448
166.39	6,013	4,274	166.91	6,443	7,512
166.40	6,021	4,334	166.92	6,452	7,577
166.41	6,029	4,394	166.93	6,460	7,641
166.42	6,038	4,454	166.94	6,468	7,706
166.43	6,046	4,515	166.95	6,477	7,771
166.44	6,054	4,575	166.96	6,485	7,835
166.45	6,063	4,636	166.97	6,493	7,900
166.46	6,071	4,697	166.98	6,501	7,965
166.47	6,079	4,757	166.99	6,510	8,030
166.48	6,087	4,818	167.00	6,518	8,095
166.49	6,096	4,879	167.01	6,527	8,161
166.50	6,104	4,940	167.02	6,536	8,226
166.51	6,112	5,001	167.03	6,545	8,291
166.52	6,121	5,062	167.04	6,554	8,357
166.53	6,129	5,123	167.05	6,562	8,423
166.54	6,137	5,185	167.06	6,571	8,488
166.55	6,145	5,246	167.07	6,580	8,554
166.56	6,154	5,308	167.08	6,589	8,620
166.57	6,162	5,369	167.09	6,598	8,686
166.58	6,170	5,431	167.10	6,607	8,752
166.59	6,179	5,493	167.11	6,616	8,818
166.60	6,187	5,555	167.12	6,625	8,884
166.61	6,195	5,616	167.13	6,634	8,950
166.62	6,203	5,678	167.14	6,642	9,017
166.63	6,212	5,741	167.15	6,651	9,083
166.64	6,220	5,803	167.16	6,660	9,150
166.65	6,228	5,865	167.17	6,669	9,216
166.66	6,236	5,927	167.18	6,678	9,283
166.67	6,245	5,990	167.19	6,687	9,350
166.68	6,253	6,052	167.20	6,696	9,417
166.69	6,261	6,115	167.21	6,705	9,484
166.70	6,270	6,177	167.22	6,714	9,551
166.71	6,278	6,240	167.23	6,722	9,618
166.72	6,286	6,303	167.24	6,731	9,685
166.73	6,294	6,366	167.25	6,740	9,753
166.74	6,303	6,429	167.26	6,749	9,820
166.75	6,311	6,492	167.27	6,758	9,888
166.76	6,319	6,555	167.28	6,767	9,955
166.77	6,328	6,618	167.29	6,776	10,023
166.78	6,336	6,682	167.30	6,785	10,091
166.79	6,344	6,745	167.31	6,794	10,159
166.80	6,352	6,808	167.32	6,802	10,227
166.81	6,361	6,872	167.33	6,811	10,295
166.82	6,369	6,936	167.34	6,820	10,363
166.83	6,377	6,999	167.35	6,829	10,431
166.84	6,386	7,063	167.36	6,838	10,500
166.85	6,394	7,127	167.37	6,847	10,568

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
167.38	6,856	10,637	167.90	7,318	14,322
167.39	6,865	10,705	167.91	7,327	14,395
167.40	6,874	10,774	167.92	7,336	14,468
167.41	6,882	10,843	167.93	7,345	14,542
167.42	6,891	10,911	167.94	7,354	14,615
167.43	6,900	10,980	167.95	7,363	14,689
167.44	6,909	11,049	167.96	7,371	14,762
167.45	6,918	11,119	167.97	7,380	14,836
167.46	6,927	11,188	167.98	7,389	14,910
167.47	6,936	11,257	167.99	7,398	14,984
167.48	6,945	11,327	168.00	7,407	15,058
167.49	6,954	11,396	168.01	7,417	15,132
167.50	6,963	11,466	168.02	7,426	15,206
167.51	6,971	11,535	168.03	7,436	15,281
167.52	6,980	11,605	168.04	7,445	15,355
167.53	6,989	11,675	168.05	7,455	15,430
167.54	6,998	11,745	168.06	7,464	15,504
167.55	7,007	11,815	168.07	7,474	15,579
167.56	7,016	11,885	168.08	7,483	15,654
167.57	7,025	11,955	168.09	7,493	15,728
167.58	7,034	12,025	168.10	7,502	15,803
167.59	7,043	12,096	168.11	7,512	15,879
167.60	7,051	12,166	168.12	7,521	15,954
167.61	7,060	12,237	168.13	7,531	16,029
167.62	7,069	12,308	168.14	7,540	16,104
167.63	7,078	12,378	168.15	7,550	16,180
167.64	7,087	12,449	168.16	7,559	16,255
167.65	7,096	12,520	168.17	7,569	16,331
167.66	7,105	12,591	168.18	7,579	16,407
167.67	7,114	12,662	168.19	7,588	16,483
167.68	7,123	12,733	168.20	7,598	16,558
167.69	7,131	12,805	168.21	7,607	16,634
167.70	7,140	12,876	168.22	7,617	16,711
167.71	7,149	12,947	168.23	7,626	16,787
167.72	7,158	13,019	168.24	7,636	16,863
167.73	7,167	13,091	168.25	7,645	16,940
167.74	7,176	13,162	168.26	7,655	17,016
167.75	7,185	13,234	168.27	7,664	17,093
167.76	7,194	13,306	168.28	7,674	17,169
167.77	7,203	13,378	168.29	7,683	17,246
167.78	7,211	13,450	168.30	7,693	17,323
167.79	7,220	13,522	168.31	7,702	17,400
167.80	7,229	13,594	168.32	7,712	17,477
167.81	7,238	13,667	168.33	7,721	17,554
167.82	7,247	13,739	168.34	7,731	17,631
167.83	7,256	13,812	168.35	7,741	17,709
167.84	7,265	13,884	168.36	7,750	17,786
167.85	7,274	13,957	168.37	7,760	17,864
167.86	7,283	14,030	168.38	7,769	17,941
167.87	7,291	14,103	168.39	7,779	18,019
167.88	7,300	14,176	168.40	7,788	18,097
167.89	7,309	14,249	168.41	7,798	18,175

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
168.42	7,807	18,253	168.94	8,303	22,442
168.43	7,817	18,331	168.95	8,312	22,525
168.44	7,826	18,409	168.96	8,322	22,608
168.45	7,836	18,488	168.97	8,331	22,691
168.46	7,845	18,566	168.98	8,341	22,774
168.47	7,855	18,645	168.99	8,350	22,858
168.48	7,864	18,723	169.00	8,360	22,941
168.49	7,874	18,802	169.01	8,370	23,025
168.50	7,884	18,881	169.02	8,380	23,109
168.51	7,893	18,960	169.03	8,391	23,193
168.52	7,903	19,038	169.04	8,401	23,277
168.53	7,912	19,118	169.05	8,411	23,361
168.54	7,922	19,197	169.06	8,421	23,445
168.55	7,931	19,276	169.07	8,431	23,529
168.56	7,941	19,355	169.08	8,442	23,614
168.57	7,950	19,435	169.09	8,452	23,698
168.58	7,960	19,514	169.10	8,462	23,783
168.59	7,969	19,594	169.11	8,472	23,867
168.60	7,979	19,674	169.12	8,483	23,952
168.61	7,988	19,754	169.13	8,493	24,037
168.62	7,998	19,834	169.14	8,503	24,122
168.63	8,007	19,914	169.15	8,513	24,207
168.64	8,017	19,994	169.16	8,523	24,292
168.65	8,026	20,074	169.17	8,534	24,377
168.66	8,036	20,154	169.18	8,544	24,463
168.67	8,046	20,235	169.19	8,554	24,548
168.68	8,055	20,315	169.20	8,564	24,634
168.69	8,065	20,396	169.21	8,574	24,720
168.70	8,074	20,476	169.22	8,585	24,805
168.71	8,084	20,557	169.23	8,595	24,891
168.72	8,093	20,638	169.24	8,605	24,977
168.73	8,103	20,719	169.25	8,615	25,063
168.74	8,112	20,800	169.26	8,625	25,150
168.75	8,122	20,881	169.27	8,636	25,236
168.76	8,131	20,963	169.28	8,646	25,322
168.77	8,141	21,044	169.29	8,656	25,409
168.78	8,150	21,125	169.30	8,666	25,495
168.79	8,160	21,207	169.31	8,677	25,582
168.80	8,169	21,289	169.32	8,687	25,669
168.81	8,179	21,370	169.33	8,697	25,756
168.82	8,188	21,452	169.34	8,707	25,843
168.83	8,198	21,534	169.35	8,717	25,930
168.84	8,208	21,616	169.36	8,728	26,017
168.85	8,217	21,698	169.37	8,738	26,105
168.86	8,227	21,780	169.38	8,748	26,192
168.87	8,236	21,863	169.39	8,758	26,280
168.88	8,246	21,945	169.40	8,768	26,367
168.89	8,255	22,028	169.41	8,779	26,455
168.90	8,265	22,110	169.42	8,789	26,543
168.91	8,274	22,193	169.43	8,799	26,631
168.92	8,284	22,276	169.44	8,809	26,719
168.93	8,293	22,359	169.45	8,819	26,807

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.46	8,830	26,895
169.47	8,840	26,983
169.48	8,850	27,072
169.49	8,860	27,160
169.50	8,871	27,249
169.51	8,881	27,338
169.52	8,891	27,427
169.53	8,901	27,516
169.54	8,911	27,605
169.55	8,922	27,694
169.56	8,932	27,783
169.57	8,942	27,873
169.58	8,952	27,962
169.59	8,962	28,052
169.60	8,973	28,141
169.61	8,983	28,231
169.62	8,993	28,321
169.63	9,003	28,411
169.64	9,013	28,501
169.65	9,024	28,591
169.66	9,034	28,681
169.67	9,044	28,772
169.68	9,054	28,862
169.69	9,064	28,953
169.70	9,075	29,044
169.71	9,085	29,134
169.72	9,095	29,225
169.73	9,105	29,316
169.74	9,116	29,407
169.75	9,126	29,499
169.76	9,136	29,590
169.77	9,146	29,681
169.78	9,156	29,773
169.79	9,167	29,865
169.80	9,177	29,956
169.81	9,187	30,048
169.82	9,197	30,140
169.83	9,207	30,232
169.84	9,218	30,324
169.85	9,228	30,416
169.86	9,238	30,509
169.87	9,248	30,601
169.88	9,258	30,694
169.89	9,269	30,786
169.90	9,279	30,879
169.91	9,289	30,972
169.92	9,299	31,065
169.93	9,310	31,158
169.94	9,320	31,251
169.95	9,330	31,344
169.96	9,340	31,438
169.97	9,350	31,531
169.98	9,361	31,625
169.99	9,371	31,718
170.00	**9,381**	**31,812**

Summary for Pond B-45: Basin #45

Inflow Area = 2.294 ac, 62.82% Impervious, Inflow Depth = 2.82" for Future 2 yr event
Inflow = 6.41 cfs @ 12.17 hrs, Volume= 0.540 af
Outflow = 1.13 cfs @ 12.70 hrs, Volume= 0.382 af, Atten= 82%, Lag= 31.5 min
Primary = 1.13 cfs @ 12.70 hrs, Volume= 0.382 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 168.78' @ 12.70 hrs Surf.Area= 5,450 sf Storage= 14,132 cf

Plug-Flow detention time= 504.4 min calculated for 0.382 af (71% of inflow)
Center-of-Mass det. time= 405.3 min (1,182.5 - 777.2)

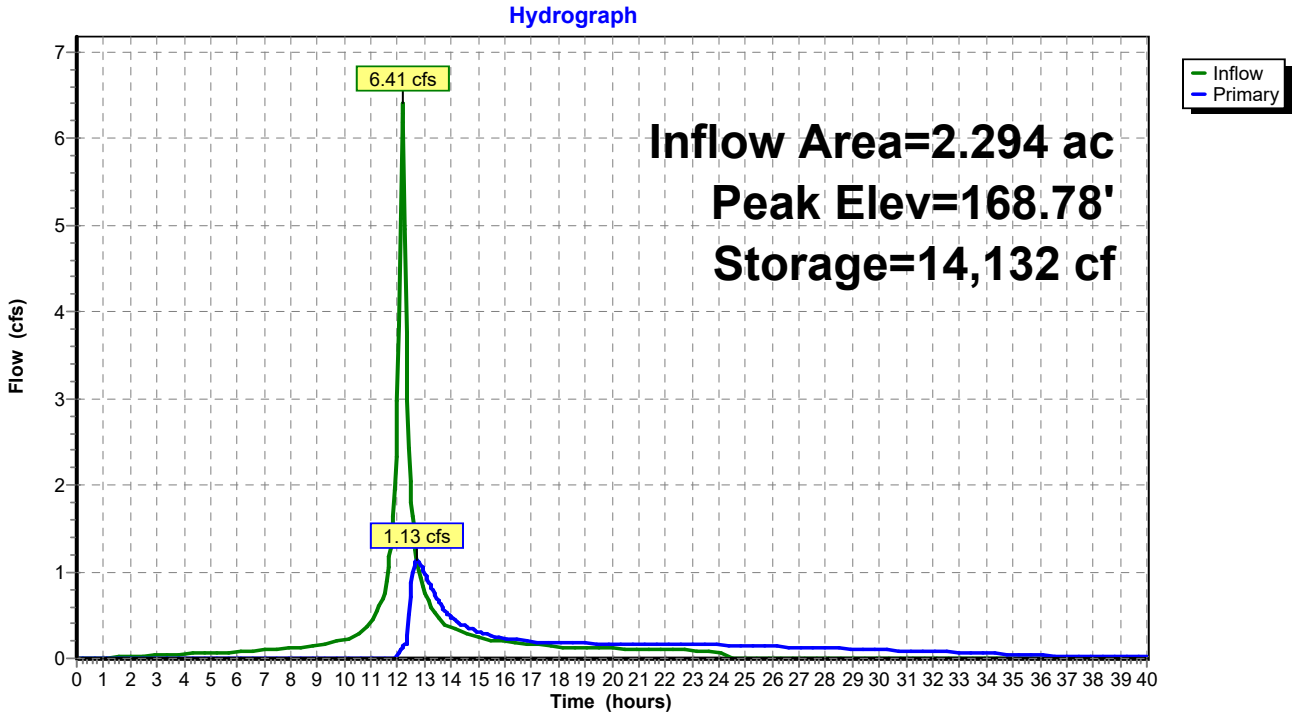
Volume	Invert	Avail.Storage	Storage Description
#1	165.30'	21,270 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
165.30	0	0	0
166.00	3,797	1,329	1,329
167.00	4,370	4,084	5,412
168.00	4,967	4,669	10,081
169.00	5,588	5,278	15,358
170.00	6,235	5,912	21,270

Device	Routing	Invert	Outlet Devices
#1	Primary	165.30'	**18.0" Round Culvert** L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 165.30' / 164.00' S= 0.0325 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	167.25'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	168.50'	**2.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Device 1	169.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#5	Primary	169.97'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.13 cfs @ 12.70 hrs HW=168.78' (Free Discharge)
- **1=Culvert** (Passes 1.13 cfs of 14.05 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.20 cfs @ 5.74 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.93 cfs @ 1.72 fps)
  - **4=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-45: Basin #45



Stage-Discharge for Pond B-45: Basin #45

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
165.30	0.00	165.82	0.00	166.34	0.00	166.86	0.00
165.31	0.00	165.83	0.00	166.35	0.00	166.87	0.00
165.32	0.00	165.84	0.00	166.36	0.00	166.88	0.00
165.33	0.00	165.85	0.00	166.37	0.00	166.89	0.00
165.34	0.00	165.86	0.00	166.38	0.00	166.90	0.00
165.35	0.00	165.87	0.00	166.39	0.00	166.91	0.00
165.36	0.00	165.88	0.00	166.40	0.00	166.92	0.00
165.37	0.00	165.89	0.00	166.41	0.00	166.93	0.00
165.38	0.00	165.90	0.00	166.42	0.00	166.94	0.00
165.39	0.00	165.91	0.00	166.43	0.00	166.95	0.00
165.40	0.00	165.92	0.00	166.44	0.00	166.96	0.00
165.41	0.00	165.93	0.00	166.45	0.00	166.97	0.00
165.42	0.00	165.94	0.00	166.46	0.00	166.98	0.00
165.43	0.00	165.95	0.00	166.47	0.00	166.99	0.00
165.44	0.00	165.96	0.00	166.48	0.00	167.00	0.00
165.45	0.00	165.97	0.00	166.49	0.00	167.01	0.00
165.46	0.00	165.98	0.00	166.50	0.00	167.02	0.00
165.47	0.00	165.99	0.00	166.51	0.00	167.03	0.00
165.48	0.00	166.00	0.00	166.52	0.00	167.04	0.00
165.49	0.00	166.01	0.00	166.53	0.00	167.05	0.00
165.50	0.00	166.02	0.00	166.54	0.00	167.06	0.00
165.51	0.00	166.03	0.00	166.55	0.00	167.07	0.00
165.52	0.00	166.04	0.00	166.56	0.00	167.08	0.00
165.53	0.00	166.05	0.00	166.57	0.00	167.09	0.00
165.54	0.00	166.06	0.00	166.58	0.00	167.10	0.00
165.55	0.00	166.07	0.00	166.59	0.00	167.11	0.00
165.56	0.00	166.08	0.00	166.60	0.00	167.12	0.00
165.57	0.00	166.09	0.00	166.61	0.00	167.13	0.00
165.58	0.00	166.10	0.00	166.62	0.00	167.14	0.00
165.59	0.00	166.11	0.00	166.63	0.00	167.15	0.00
165.60	0.00	166.12	0.00	166.64	0.00	167.16	0.00
165.61	0.00	166.13	0.00	166.65	0.00	167.17	0.00
165.62	0.00	166.14	0.00	166.66	0.00	167.18	0.00
165.63	0.00	166.15	0.00	166.67	0.00	167.19	0.00
165.64	0.00	166.16	0.00	166.68	0.00	167.20	0.00
165.65	0.00	166.17	0.00	166.69	0.00	167.21	0.00
165.66	0.00	166.18	0.00	166.70	0.00	167.22	0.00
165.67	0.00	166.19	0.00	166.71	0.00	167.23	0.00
165.68	0.00	166.20	0.00	166.72	0.00	167.24	0.00
165.69	0.00	166.21	0.00	166.73	0.00	167.25	0.00
165.70	0.00	166.22	0.00	166.74	0.00	167.26	0.00
165.71	0.00	166.23	0.00	166.75	0.00	167.27	0.00
165.72	0.00	166.24	0.00	166.76	0.00	167.28	0.00
165.73	0.00	166.25	0.00	166.77	0.00	167.29	0.00
165.74	0.00	166.26	0.00	166.78	0.00	167.30	0.00
165.75	0.00	166.27	0.00	166.79	0.00	167.31	0.01
165.76	0.00	166.28	0.00	166.80	0.00	167.32	0.01
165.77	0.00	166.29	0.00	166.81	0.00	167.33	0.01
165.78	0.00	166.30	0.00	166.82	0.00	167.34	0.01
165.79	0.00	166.31	0.00	166.83	0.00	167.35	0.02
165.80	0.00	166.32	0.00	166.84	0.00	167.36	0.02
165.81	0.00	166.33	0.00	166.85	0.00	167.37	0.02

Stage-Discharge for Pond B-45: Basin #45 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
167.38	0.03	167.90	0.12	168.42	0.17	168.94	2.03
167.39	0.03	167.91	0.12	168.43	0.17	168.95	2.09
167.40	0.03	167.92	0.12	168.44	0.17	168.96	2.15
167.41	0.04	167.93	0.12	168.45	0.17	168.97	2.22
167.42	0.04	167.94	0.13	168.46	0.17	168.98	2.28
167.43	0.05	167.95	0.13	168.47	0.17	168.99	2.34
167.44	0.05	167.96	0.13	168.48	0.17	169.00	2.41
167.45	0.05	167.97	0.13	168.49	0.17	169.01	2.48
167.46	0.05	167.98	0.13	168.50	0.18	169.02	2.57
167.47	0.06	167.99	0.13	168.51	0.18	169.03	2.67
167.48	0.06	168.00	0.13	168.52	0.20	169.04	2.77
167.49	0.06	168.01	0.13	168.53	0.21	169.05	2.88
167.50	0.06	168.02	0.13	168.54	0.23	169.06	2.99
167.51	0.06	168.03	0.13	168.55	0.25	169.07	3.11
167.52	0.07	168.04	0.14	168.56	0.28	169.08	3.23
167.53	0.07	168.05	0.14	168.57	0.30	169.09	3.36
167.54	0.07	168.06	0.14	168.58	0.33	169.10	3.49
167.55	0.07	168.07	0.14	168.59	0.36	169.11	3.62
167.56	0.07	168.08	0.14	168.60	0.39	169.12	3.75
167.57	0.08	168.09	0.14	168.61	0.42	169.13	3.89
167.58	0.08	168.10	0.14	168.62	0.45	169.14	4.03
167.59	0.08	168.11	0.14	168.63	0.49	169.15	4.18
167.60	0.08	168.12	0.14	168.64	0.52	169.16	4.33
167.61	0.08	168.13	0.14	168.65	0.56	169.17	4.48
167.62	0.08	168.14	0.15	168.66	0.60	169.18	4.63
167.63	0.09	168.15	0.15	168.67	0.64	169.19	4.79
167.64	0.09	168.16	0.15	168.68	0.68	169.20	4.94
167.65	0.09	168.17	0.15	168.69	0.72	169.21	5.10
167.66	0.09	168.18	0.15	168.70	0.76	169.22	5.27
167.67	0.09	168.19	0.15	168.71	0.81	169.23	5.43
167.68	0.09	168.20	0.15	168.72	0.85	169.24	5.60
167.69	0.10	168.21	0.15	168.73	0.90	169.25	5.77
167.70	0.10	168.22	0.15	168.74	0.94	169.26	5.94
167.71	0.10	168.23	0.15	168.75	0.99	169.27	6.12
167.72	0.10	168.24	0.15	168.76	1.04	169.28	6.29
167.73	0.10	168.25	0.16	168.77	1.09	169.29	6.47
167.74	0.10	168.26	0.16	168.78	1.14	169.30	6.65
167.75	0.10	168.27	0.16	168.79	1.19	169.31	6.83
167.76	0.10	168.28	0.16	168.80	1.24	169.32	7.02
167.77	0.11	168.29	0.16	168.81	1.29	169.33	7.20
167.78	0.11	168.30	0.16	168.82	1.34	169.34	7.39
167.79	0.11	168.31	0.16	168.83	1.40	169.35	7.58
167.80	0.11	168.32	0.16	168.84	1.45	169.36	7.77
167.81	0.11	168.33	0.16	168.85	1.51	169.37	7.97
167.82	0.11	168.34	0.16	168.86	1.56	169.38	8.16
167.83	0.11	168.35	0.16	168.87	1.62	169.39	8.36
167.84	0.11	168.36	0.16	168.88	1.68	169.40	8.56
167.85	0.12	168.37	0.17	168.89	1.73	169.41	8.76
167.86	0.12	168.38	0.17	168.90	1.79	169.42	8.96
167.87	0.12	168.39	0.17	168.91	1.85	169.43	9.17
167.88	0.12	168.40	0.17	168.92	1.91	169.44	9.37
167.89	0.12	168.41	0.17	168.93	1.97	169.45	9.58

Stage-Discharge for Pond B-45: Basin #45 (continued)

Elevation (feet)	Primary (cfs)
169.46	9.79
169.47	10.00
169.48	10.21
169.49	10.42
169.50	10.64
169.51	10.85
169.52	11.07
169.53	11.29
169.54	11.51
169.55	11.73
169.56	11.95
169.57	12.18
169.58	12.40
169.59	12.63
169.60	12.86
169.61	13.09
169.62	13.32
169.63	13.55
169.64	13.78
169.65	14.02
169.66	14.25
169.67	14.49
169.68	14.73
169.69	14.97
169.70	15.21
169.71	15.45
169.72	15.69
169.73	15.94
169.74	16.18
169.75	16.37
169.76	16.39
169.77	16.41
169.78	16.43
169.79	16.46
169.80	16.48
169.81	16.50
169.82	16.52
169.83	16.54
169.84	16.56
169.85	16.59
169.86	16.61
169.87	16.63
169.88	16.65
169.89	16.67
169.90	16.70
169.91	16.72
169.92	16.74
169.93	16.76
169.94	16.78
169.95	16.80
169.96	16.82
169.97	16.85
169.98	16.99
169.99	17.22
170.00	**17.52**

Stage-Area-Storage for Pond B-45: Basin #45

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
165.30	0	0	165.82	2,821	733
165.31	54	0	165.83	2,875	762
165.32	108	1	165.84	2,929	791
165.33	163	2	165.85	2,983	820
165.34	217	4	165.86	3,038	851
165.35	271	7	165.87	3,092	881
165.36	325	10	165.88	3,146	912
165.37	380	13	165.89	3,200	944
165.38	434	17	165.90	3,255	976
165.39	488	22	165.91	3,309	1,009
165.40	542	27	165.92	3,363	1,043
165.41	597	33	165.93	3,417	1,076
165.42	651	39	165.94	3,472	1,111
165.43	705	46	165.95	3,526	1,146
165.44	759	53	165.96	3,580	1,181
165.45	814	61	165.97	3,634	1,217
165.46	868	69	165.98	3,689	1,254
165.47	922	78	165.99	3,743	1,291
165.48	976	88	166.00	3,797	1,329
165.49	1,031	98	166.01	3,803	1,367
165.50	1,085	108	166.02	3,808	1,405
165.51	1,139	120	166.03	3,814	1,443
165.52	1,193	131	166.04	3,820	1,481
165.53	1,248	143	166.05	3,826	1,520
165.54	1,302	156	166.06	3,831	1,558
165.55	1,356	170	166.07	3,837	1,596
165.56	1,410	183	166.08	3,843	1,635
165.57	1,465	198	166.09	3,849	1,673
165.58	1,519	213	166.10	3,854	1,712
165.59	1,573	228	166.11	3,860	1,750
165.60	1,627	244	166.12	3,866	1,789
165.61	1,682	261	166.13	3,871	1,827
165.62	1,736	278	166.14	3,877	1,866
165.63	1,790	295	166.15	3,883	1,905
165.64	1,844	314	166.16	3,889	1,944
165.65	1,899	332	166.17	3,894	1,983
165.66	1,953	351	166.18	3,900	2,022
165.67	2,007	371	166.19	3,906	2,061
165.68	2,061	392	166.20	3,912	2,100
165.69	2,115	413	166.21	3,917	2,139
165.70	2,170	434	166.22	3,923	2,178
165.71	2,224	456	166.23	3,929	2,217
165.72	2,278	478	166.24	3,935	2,257
165.73	2,332	501	166.25	3,940	2,296
165.74	2,387	525	166.26	3,946	2,336
165.75	2,441	549	166.27	3,952	2,375
165.76	2,495	574	166.28	3,957	2,415
165.77	2,549	599	166.29	3,963	2,454
165.78	2,604	625	166.30	3,969	2,494
165.79	2,658	651	166.31	3,975	2,534
165.80	2,712	678	166.32	3,980	2,573
165.81	2,766	705	166.33	3,986	2,613

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
166.34	3,992	2,653	166.86	4,290	4,806
166.35	3,998	2,693	166.87	4,296	4,849
166.36	4,003	2,733	166.88	4,301	4,892
166.37	4,009	2,773	166.89	4,307	4,935
166.38	4,015	2,813	166.90	4,313	4,978
166.39	4,020	2,853	166.91	4,318	5,021
166.40	4,026	2,894	166.92	4,324	5,065
166.41	4,032	2,934	166.93	4,330	5,108
166.42	4,038	2,974	166.94	4,336	5,151
166.43	4,043	3,015	166.95	4,341	5,195
166.44	4,049	3,055	166.96	4,347	5,238
166.45	4,055	3,096	166.97	4,353	5,282
166.46	4,061	3,136	166.98	4,359	5,325
166.47	4,066	3,177	166.99	4,364	5,369
166.48	4,072	3,218	167.00	4,370	5,412
166.49	4,078	3,258	167.01	4,376	5,456
166.50	4,084	3,299	167.02	4,382	5,500
166.51	4,089	3,340	167.03	4,388	5,544
166.52	4,095	3,381	167.04	4,394	5,588
166.53	4,101	3,422	167.05	4,400	5,632
166.54	4,106	3,463	167.06	4,406	5,676
166.55	4,112	3,504	167.07	4,412	5,720
166.56	4,118	3,545	167.08	4,418	5,764
166.57	4,124	3,586	167.09	4,424	5,808
166.58	4,129	3,628	167.10	4,430	5,852
166.59	4,135	3,669	167.11	4,436	5,897
166.60	4,141	3,710	167.12	4,442	5,941
166.61	4,147	3,752	167.13	4,448	5,986
166.62	4,152	3,793	167.14	4,454	6,030
166.63	4,158	3,835	167.15	4,460	6,075
166.64	4,164	3,876	167.16	4,466	6,119
166.65	4,169	3,918	167.17	4,471	6,164
166.66	4,175	3,960	167.18	4,477	6,209
166.67	4,181	4,002	167.19	4,483	6,254
166.68	4,187	4,043	167.20	4,489	6,298
166.69	4,192	4,085	167.21	4,495	6,343
166.70	4,198	4,127	167.22	4,501	6,388
166.71	4,204	4,169	167.23	4,507	6,433
166.72	4,210	4,211	167.24	4,513	6,478
166.73	4,215	4,253	167.25	4,519	6,524
166.74	4,221	4,296	167.26	4,525	6,569
166.75	4,227	4,338	167.27	4,531	6,614
166.76	4,232	4,380	167.28	4,537	6,659
166.77	4,238	4,423	167.29	4,543	6,705
166.78	4,244	4,465	167.30	4,549	6,750
166.79	4,250	4,507	167.31	4,555	6,796
166.80	4,255	4,550	167.32	4,561	6,841
166.81	4,261	4,592	167.33	4,567	6,887
166.82	4,267	4,635	167.34	4,573	6,933
166.83	4,273	4,678	167.35	4,579	6,979
166.84	4,278	4,721	167.36	4,585	7,024
166.85	4,284	4,763	167.37	4,591	7,070

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
167.38	4,597	7,116	167.90	4,907	9,587
167.39	4,603	7,162	167.91	4,913	9,636
167.40	4,609	7,208	167.92	4,919	9,686
167.41	4,615	7,254	167.93	4,925	9,735
167.42	4,621	7,301	167.94	4,931	9,784
167.43	4,627	7,347	167.95	4,937	9,833
167.44	4,633	7,393	167.96	4,943	9,883
167.45	4,639	7,439	167.97	4,949	9,932
167.46	4,645	7,486	167.98	4,955	9,982
167.47	4,651	7,532	167.99	4,961	10,031
167.48	4,657	7,579	168.00	4,967	10,081
167.49	4,663	7,625	168.01	4,973	10,131
167.50	4,669	7,672	168.02	4,979	10,180
167.51	4,674	7,719	168.03	4,986	10,230
167.52	4,680	7,766	168.04	4,992	10,280
167.53	4,686	7,812	168.05	4,998	10,330
167.54	4,692	7,859	168.06	5,004	10,380
167.55	4,698	7,906	168.07	5,010	10,430
167.56	4,704	7,953	168.08	5,017	10,480
167.57	4,710	8,000	168.09	5,023	10,530
167.58	4,716	8,047	168.10	5,029	10,581
167.59	4,722	8,095	168.11	5,035	10,631
167.60	4,728	8,142	168.12	5,042	10,681
167.61	4,734	8,189	168.13	5,048	10,732
167.62	4,740	8,237	168.14	5,054	10,782
167.63	4,746	8,284	168.15	5,060	10,833
167.64	4,752	8,332	168.16	5,066	10,884
167.65	4,758	8,379	168.17	5,073	10,934
167.66	4,764	8,427	168.18	5,079	10,985
167.67	4,770	8,474	168.19	5,085	11,036
167.68	4,776	8,522	168.20	5,091	11,087
167.69	4,782	8,570	168.21	5,097	11,138
167.70	4,788	8,618	168.22	5,104	11,189
167.71	4,794	8,666	168.23	5,110	11,240
167.72	4,800	8,714	168.24	5,116	11,291
167.73	4,806	8,762	168.25	5,122	11,342
167.74	4,812	8,810	168.26	5,128	11,393
167.75	4,818	8,858	168.27	5,135	11,445
167.76	4,824	8,906	168.28	5,141	11,496
167.77	4,830	8,954	168.29	5,147	11,547
167.78	4,836	9,003	168.30	5,153	11,599
167.79	4,842	9,051	168.31	5,160	11,651
167.80	4,848	9,099	168.32	5,166	11,702
167.81	4,854	9,148	168.33	5,172	11,754
167.82	4,860	9,197	168.34	5,178	11,806
167.83	4,866	9,245	168.35	5,184	11,857
167.84	4,871	9,294	168.36	5,191	11,909
167.85	4,877	9,343	168.37	5,197	11,961
167.86	4,883	9,391	168.38	5,203	12,013
167.87	4,889	9,440	168.39	5,209	12,065
167.88	4,895	9,489	168.40	5,215	12,117
167.89	4,901	9,538	168.41	5,222	12,170

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
168.42	5,228	12,222	168.94	5,551	15,024
168.43	5,234	12,274	168.95	5,557	15,080
168.44	5,240	12,327	168.96	5,563	15,135
168.45	5,246	12,379	168.97	5,569	15,191
168.46	5,253	12,431	168.98	5,576	15,247
168.47	5,259	12,484	168.99	5,582	15,303
168.48	5,265	12,537	169.00	5,588	15,358
168.49	5,271	12,589	169.01	5,594	15,414
168.50	5,278	12,642	169.02	5,601	15,470
168.51	5,284	12,695	169.03	5,607	15,526
168.52	5,290	12,748	169.04	5,614	15,582
168.53	5,296	12,801	169.05	5,620	15,639
168.54	5,302	12,854	169.06	5,627	15,695
168.55	5,309	12,907	169.07	5,633	15,751
168.56	5,315	12,960	169.08	5,640	15,808
168.57	5,321	13,013	169.09	5,646	15,864
168.58	5,327	13,066	169.10	5,653	15,920
168.59	5,333	13,120	169.11	5,659	15,977
168.60	5,340	13,173	169.12	5,666	16,034
168.61	5,346	13,226	169.13	5,672	16,090
168.62	5,352	13,280	169.14	5,679	16,147
168.63	5,358	13,333	169.15	5,685	16,204
168.64	5,364	13,387	169.16	5,692	16,261
168.65	5,371	13,441	169.17	5,698	16,318
168.66	5,377	13,494	169.18	5,704	16,375
168.67	5,383	13,548	169.19	5,711	16,432
168.68	5,389	13,602	169.20	5,717	16,489
168.69	5,395	13,656	169.21	5,724	16,546
168.70	5,402	13,710	169.22	5,730	16,603
168.71	5,408	13,764	169.23	5,737	16,661
168.72	5,414	13,818	169.24	5,743	16,718
168.73	5,420	13,872	169.25	5,750	16,776
168.74	5,427	13,927	169.26	5,756	16,833
168.75	5,433	13,981	169.27	5,763	16,891
168.76	5,439	14,035	169.28	5,769	16,948
168.77	5,445	14,090	169.29	5,776	17,006
168.78	5,451	14,144	169.30	5,782	17,064
168.79	5,458	14,199	169.31	5,789	17,122
168.80	5,464	14,253	169.32	5,795	17,180
168.81	5,470	14,308	169.33	5,802	17,238
168.82	5,476	14,363	169.34	5,808	17,296
168.83	5,482	14,417	169.35	5,814	17,354
168.84	5,489	14,472	169.36	5,821	17,412
168.85	5,495	14,527	169.37	5,827	17,470
168.86	5,501	14,582	169.38	5,834	17,529
168.87	5,507	14,637	169.39	5,840	17,587
168.88	5,513	14,692	169.40	5,847	17,645
168.89	5,520	14,748	169.41	5,853	17,704
168.90	5,526	14,803	169.42	5,860	17,762
168.91	5,532	14,858	169.43	5,866	17,821
168.92	5,538	14,913	169.44	5,873	17,880
168.93	5,545	14,969	169.45	5,879	17,939

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.46	5,886	17,997
169.47	5,892	18,056
169.48	5,899	18,115
169.49	5,905	18,174
169.50	5,912	18,233
169.51	5,918	18,292
169.52	5,924	18,352
169.53	5,931	18,411
169.54	5,937	18,470
169.55	5,944	18,530
169.56	5,950	18,589
169.57	5,957	18,649
169.58	5,963	18,708
169.59	5,970	18,768
169.60	5,976	18,828
169.61	5,983	18,888
169.62	5,989	18,947
169.63	5,996	19,007
169.64	6,002	19,067
169.65	6,009	19,127
169.66	6,015	19,187
169.67	6,021	19,248
169.68	6,028	19,308
169.69	6,034	19,368
169.70	6,041	19,429
169.71	6,047	19,489
169.72	6,054	19,550
169.73	6,060	19,610
169.74	6,067	19,671
169.75	6,073	19,731
169.76	6,080	19,792
169.77	6,086	19,853
169.78	6,093	19,914
169.79	6,099	19,975
169.80	6,106	20,036
169.81	6,112	20,097
169.82	6,119	20,158
169.83	6,125	20,219
169.84	6,131	20,281
169.85	6,138	20,342
169.86	6,144	20,403
169.87	6,151	20,465
169.88	6,157	20,526
169.89	6,164	20,588
169.90	6,170	20,650
169.91	6,177	20,711
169.92	6,183	20,773
169.93	6,190	20,835
169.94	6,196	20,897
169.95	6,203	20,959
169.96	6,209	21,021
169.97	6,216	21,083
169.98	6,222	21,145
169.99	6,229	21,208
170.00	**6,235**	**21,270**

Summary for Pond B-46A: Basin #46A

Inflow Area = 2.480 ac, 46.25% Impervious, Inflow Depth = 2.47" for Future 2 yr event
Inflow = 6.16 cfs @ 12.17 hrs, Volume= 0.511 af
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Pond B-46B : Basin #46B

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 183.60' @ 24.60 hrs Surf.Area= 11,279 sf Storage= 22,248 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

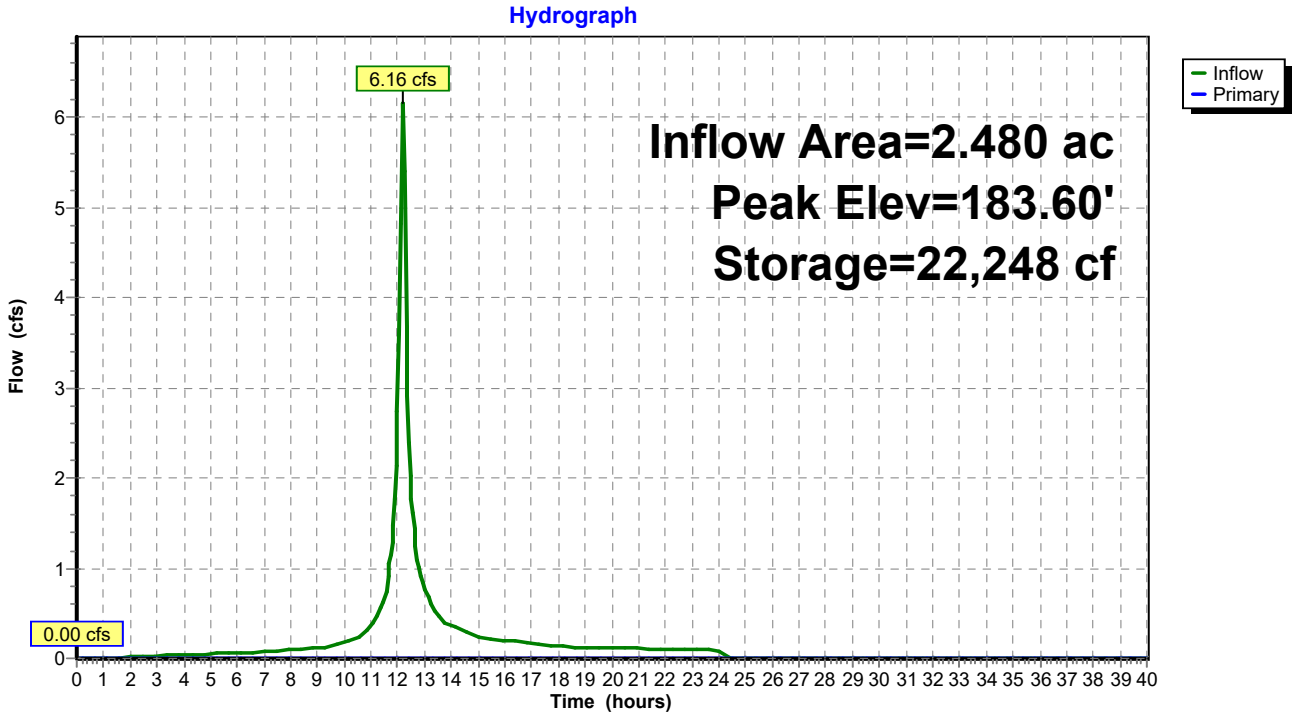
Volume	Invert	Avail.Storage	Storage Description
#1	181.00'	90,351 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
181.00	6,639	0	0
182.00	7,998	7,319	7,319
183.00	9,413	8,706	16,024
184.00	12,515	10,964	26,988
185.00	14,128	13,322	40,310
186.00	15,798	14,963	55,273
187.00	17,524	16,661	71,934
188.00	19,310	18,417	90,351

Device	Routing	Invert	Outlet Devices
#1	Primary	187.50'	**50.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s) 0.5' Crest Height

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=181.00' (Free Discharge)
1=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-46A: Basin #46A



Stage-Discharge for Pond B-46A: Basin #46A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.00	0.00	181.52	0.00	182.04	0.00	182.56	0.00
181.01	0.00	181.53	0.00	182.05	0.00	182.57	0.00
181.02	0.00	181.54	0.00	182.06	0.00	182.58	0.00
181.03	0.00	181.55	0.00	182.07	0.00	182.59	0.00
181.04	0.00	181.56	0.00	182.08	0.00	182.60	0.00
181.05	0.00	181.57	0.00	182.09	0.00	182.61	0.00
181.06	0.00	181.58	0.00	182.10	0.00	182.62	0.00
181.07	0.00	181.59	0.00	182.11	0.00	182.63	0.00
181.08	0.00	181.60	0.00	182.12	0.00	182.64	0.00
181.09	0.00	181.61	0.00	182.13	0.00	182.65	0.00
181.10	0.00	181.62	0.00	182.14	0.00	182.66	0.00
181.11	0.00	181.63	0.00	182.15	0.00	182.67	0.00
181.12	0.00	181.64	0.00	182.16	0.00	182.68	0.00
181.13	0.00	181.65	0.00	182.17	0.00	182.69	0.00
181.14	0.00	181.66	0.00	182.18	0.00	182.70	0.00
181.15	0.00	181.67	0.00	182.19	0.00	182.71	0.00
181.16	0.00	181.68	0.00	182.20	0.00	182.72	0.00
181.17	0.00	181.69	0.00	182.21	0.00	182.73	0.00
181.18	0.00	181.70	0.00	182.22	0.00	182.74	0.00
181.19	0.00	181.71	0.00	182.23	0.00	182.75	0.00
181.20	0.00	181.72	0.00	182.24	0.00	182.76	0.00
181.21	0.00	181.73	0.00	182.25	0.00	182.77	0.00
181.22	0.00	181.74	0.00	182.26	0.00	182.78	0.00
181.23	0.00	181.75	0.00	182.27	0.00	182.79	0.00
181.24	0.00	181.76	0.00	182.28	0.00	182.80	0.00
181.25	0.00	181.77	0.00	182.29	0.00	182.81	0.00
181.26	0.00	181.78	0.00	182.30	0.00	182.82	0.00
181.27	0.00	181.79	0.00	182.31	0.00	182.83	0.00
181.28	0.00	181.80	0.00	182.32	0.00	182.84	0.00
181.29	0.00	181.81	0.00	182.33	0.00	182.85	0.00
181.30	0.00	181.82	0.00	182.34	0.00	182.86	0.00
181.31	0.00	181.83	0.00	182.35	0.00	182.87	0.00
181.32	0.00	181.84	0.00	182.36	0.00	182.88	0.00
181.33	0.00	181.85	0.00	182.37	0.00	182.89	0.00
181.34	0.00	181.86	0.00	182.38	0.00	182.90	0.00
181.35	0.00	181.87	0.00	182.39	0.00	182.91	0.00
181.36	0.00	181.88	0.00	182.40	0.00	182.92	0.00
181.37	0.00	181.89	0.00	182.41	0.00	182.93	0.00
181.38	0.00	181.90	0.00	182.42	0.00	182.94	0.00
181.39	0.00	181.91	0.00	182.43	0.00	182.95	0.00
181.40	0.00	181.92	0.00	182.44	0.00	182.96	0.00
181.41	0.00	181.93	0.00	182.45	0.00	182.97	0.00
181.42	0.00	181.94	0.00	182.46	0.00	182.98	0.00
181.43	0.00	181.95	0.00	182.47	0.00	182.99	0.00
181.44	0.00	181.96	0.00	182.48	0.00	183.00	0.00
181.45	0.00	181.97	0.00	182.49	0.00	183.01	0.00
181.46	0.00	181.98	0.00	182.50	0.00	183.02	0.00
181.47	0.00	181.99	0.00	182.51	0.00	183.03	0.00
181.48	0.00	182.00	0.00	182.52	0.00	183.04	0.00
181.49	0.00	182.01	0.00	182.53	0.00	183.05	0.00
181.50	0.00	182.02	0.00	182.54	0.00	183.06	0.00
181.51	0.00	182.03	0.00	182.55	0.00	183.07	0.00

Stage-Discharge for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.08	0.00	183.60	0.00	184.12	0.00	184.64	0.00
183.09	0.00	183.61	0.00	184.13	0.00	184.65	0.00
183.10	0.00	183.62	0.00	184.14	0.00	184.66	0.00
183.11	0.00	183.63	0.00	184.15	0.00	184.67	0.00
183.12	0.00	183.64	0.00	184.16	0.00	184.68	0.00
183.13	0.00	183.65	0.00	184.17	0.00	184.69	0.00
183.14	0.00	183.66	0.00	184.18	0.00	184.70	0.00
183.15	0.00	183.67	0.00	184.19	0.00	184.71	0.00
183.16	0.00	183.68	0.00	184.20	0.00	184.72	0.00
183.17	0.00	183.69	0.00	184.21	0.00	184.73	0.00
183.18	0.00	183.70	0.00	184.22	0.00	184.74	0.00
183.19	0.00	183.71	0.00	184.23	0.00	184.75	0.00
183.20	0.00	183.72	0.00	184.24	0.00	184.76	0.00
183.21	0.00	183.73	0.00	184.25	0.00	184.77	0.00
183.22	0.00	183.74	0.00	184.26	0.00	184.78	0.00
183.23	0.00	183.75	0.00	184.27	0.00	184.79	0.00
183.24	0.00	183.76	0.00	184.28	0.00	184.80	0.00
183.25	0.00	183.77	0.00	184.29	0.00	184.81	0.00
183.26	0.00	183.78	0.00	184.30	0.00	184.82	0.00
183.27	0.00	183.79	0.00	184.31	0.00	184.83	0.00
183.28	0.00	183.80	0.00	184.32	0.00	184.84	0.00
183.29	0.00	183.81	0.00	184.33	0.00	184.85	0.00
183.30	0.00	183.82	0.00	184.34	0.00	184.86	0.00
183.31	0.00	183.83	0.00	184.35	0.00	184.87	0.00
183.32	0.00	183.84	0.00	184.36	0.00	184.88	0.00
183.33	0.00	183.85	0.00	184.37	0.00	184.89	0.00
183.34	0.00	183.86	0.00	184.38	0.00	184.90	0.00
183.35	0.00	183.87	0.00	184.39	0.00	184.91	0.00
183.36	0.00	183.88	0.00	184.40	0.00	184.92	0.00
183.37	0.00	183.89	0.00	184.41	0.00	184.93	0.00
183.38	0.00	183.90	0.00	184.42	0.00	184.94	0.00
183.39	0.00	183.91	0.00	184.43	0.00	184.95	0.00
183.40	0.00	183.92	0.00	184.44	0.00	184.96	0.00
183.41	0.00	183.93	0.00	184.45	0.00	184.97	0.00
183.42	0.00	183.94	0.00	184.46	0.00	184.98	0.00
183.43	0.00	183.95	0.00	184.47	0.00	184.99	0.00
183.44	0.00	183.96	0.00	184.48	0.00	185.00	0.00
183.45	0.00	183.97	0.00	184.49	0.00	185.01	0.00
183.46	0.00	183.98	0.00	184.50	0.00	185.02	0.00
183.47	0.00	183.99	0.00	184.51	0.00	185.03	0.00
183.48	0.00	184.00	0.00	184.52	0.00	185.04	0.00
183.49	0.00	184.01	0.00	184.53	0.00	185.05	0.00
183.50	0.00	184.02	0.00	184.54	0.00	185.06	0.00
183.51	0.00	184.03	0.00	184.55	0.00	185.07	0.00
183.52	0.00	184.04	0.00	184.56	0.00	185.08	0.00
183.53	0.00	184.05	0.00	184.57	0.00	185.09	0.00
183.54	0.00	184.06	0.00	184.58	0.00	185.10	0.00
183.55	0.00	184.07	0.00	184.59	0.00	185.11	0.00
183.56	0.00	184.08	0.00	184.60	0.00	185.12	0.00
183.57	0.00	184.09	0.00	184.61	0.00	185.13	0.00
183.58	0.00	184.10	0.00	184.62	0.00	185.14	0.00
183.59	0.00	184.11	0.00	184.63	0.00	185.15	0.00

Stage-Discharge for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.16	0.00	185.68	0.00	186.20	0.00	186.72	0.00
185.17	0.00	185.69	0.00	186.21	0.00	186.73	0.00
185.18	0.00	185.70	0.00	186.22	0.00	186.74	0.00
185.19	0.00	185.71	0.00	186.23	0.00	186.75	0.00
185.20	0.00	185.72	0.00	186.24	0.00	186.76	0.00
185.21	0.00	185.73	0.00	186.25	0.00	186.77	0.00
185.22	0.00	185.74	0.00	186.26	0.00	186.78	0.00
185.23	0.00	185.75	0.00	186.27	0.00	186.79	0.00
185.24	0.00	185.76	0.00	186.28	0.00	186.80	0.00
185.25	0.00	185.77	0.00	186.29	0.00	186.81	0.00
185.26	0.00	185.78	0.00	186.30	0.00	186.82	0.00
185.27	0.00	185.79	0.00	186.31	0.00	186.83	0.00
185.28	0.00	185.80	0.00	186.32	0.00	186.84	0.00
185.29	0.00	185.81	0.00	186.33	0.00	186.85	0.00
185.30	0.00	185.82	0.00	186.34	0.00	186.86	0.00
185.31	0.00	185.83	0.00	186.35	0.00	186.87	0.00
185.32	0.00	185.84	0.00	186.36	0.00	186.88	0.00
185.33	0.00	185.85	0.00	186.37	0.00	186.89	0.00
185.34	0.00	185.86	0.00	186.38	0.00	186.90	0.00
185.35	0.00	185.87	0.00	186.39	0.00	186.91	0.00
185.36	0.00	185.88	0.00	186.40	0.00	186.92	0.00
185.37	0.00	185.89	0.00	186.41	0.00	186.93	0.00
185.38	0.00	185.90	0.00	186.42	0.00	186.94	0.00
185.39	0.00	185.91	0.00	186.43	0.00	186.95	0.00
185.40	0.00	185.92	0.00	186.44	0.00	186.96	0.00
185.41	0.00	185.93	0.00	186.45	0.00	186.97	0.00
185.42	0.00	185.94	0.00	186.46	0.00	186.98	0.00
185.43	0.00	185.95	0.00	186.47	0.00	186.99	0.00
185.44	0.00	185.96	0.00	186.48	0.00	187.00	0.00
185.45	0.00	185.97	0.00	186.49	0.00	187.01	0.00
185.46	0.00	185.98	0.00	186.50	0.00	187.02	0.00
185.47	0.00	185.99	0.00	186.51	0.00	187.03	0.00
185.48	0.00	186.00	0.00	186.52	0.00	187.04	0.00
185.49	0.00	186.01	0.00	186.53	0.00	187.05	0.00
185.50	0.00	186.02	0.00	186.54	0.00	187.06	0.00
185.51	0.00	186.03	0.00	186.55	0.00	187.07	0.00
185.52	0.00	186.04	0.00	186.56	0.00	187.08	0.00
185.53	0.00	186.05	0.00	186.57	0.00	187.09	0.00
185.54	0.00	186.06	0.00	186.58	0.00	187.10	0.00
185.55	0.00	186.07	0.00	186.59	0.00	187.11	0.00
185.56	0.00	186.08	0.00	186.60	0.00	187.12	0.00
185.57	0.00	186.09	0.00	186.61	0.00	187.13	0.00
185.58	0.00	186.10	0.00	186.62	0.00	187.14	0.00
185.59	0.00	186.11	0.00	186.63	0.00	187.15	0.00
185.60	0.00	186.12	0.00	186.64	0.00	187.16	0.00
185.61	0.00	186.13	0.00	186.65	0.00	187.17	0.00
185.62	0.00	186.14	0.00	186.66	0.00	187.18	0.00
185.63	0.00	186.15	0.00	186.67	0.00	187.19	0.00
185.64	0.00	186.16	0.00	186.68	0.00	187.20	0.00
185.65	0.00	186.17	0.00	186.69	0.00	187.21	0.00
185.66	0.00	186.18	0.00	186.70	0.00	187.22	0.00
185.67	0.00	186.19	0.00	186.71	0.00	187.23	0.00

Stage-Discharge for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Primary (cfs)
187.24	0.00
187.25	0.00
187.26	0.00
187.27	0.00
187.28	0.00
187.29	0.00
187.30	0.00
187.31	0.00
187.32	0.00
187.33	0.00
187.34	0.00
187.35	0.00
187.36	0.00
187.37	0.00
187.38	0.00
187.39	0.00
187.40	0.00
187.41	0.00
187.42	0.00
187.43	0.00
187.44	0.00
187.45	0.00
187.46	0.00
187.47	0.00
187.48	0.00
187.49	0.00
187.50	0.00
187.51	0.16
187.52	0.46
187.53	0.86
187.54	1.32
187.55	1.85
187.56	2.44
187.57	3.08
187.58	3.77
187.59	4.51
187.60	5.29
187.61	6.12
187.62	6.99
187.63	7.90
187.64	8.85
187.65	9.84
187.66	10.87
187.67	11.93
187.68	13.03
187.69	14.16
187.70	15.33
187.71	16.53
187.72	17.76
187.73	19.03
187.74	20.33
187.75	21.67
187.76	23.03
187.77	24.43
187.78	25.85
187.79	27.31
187.80	28.80
187.81	30.32
187.82	31.87
187.83	33.45
187.84	35.06
187.85	36.70
187.86	38.37
187.87	40.07
187.88	41.80
187.89	43.55
187.90	45.34
187.91	47.15
187.92	48.99
187.93	50.86
187.94	52.76
187.95	54.69
187.96	56.65
187.97	58.63
187.98	60.64
187.99	62.68
188.00	**64.75**

Stage-Area-Storage for Pond B-46A: Basin #46A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.00	6,639	0	181.52	7,346	3,636
181.01	6,653	66	181.53	7,359	3,710
181.02	6,666	133	181.54	7,373	3,783
181.03	6,680	200	181.55	7,386	3,857
181.04	6,693	267	181.56	7,400	3,931
181.05	6,707	334	181.57	7,414	4,005
181.06	6,721	401	181.58	7,427	4,079
181.07	6,734	468	181.59	7,441	4,154
181.08	6,748	535	181.60	7,454	4,228
181.09	6,761	603	181.61	7,468	4,303
181.10	6,775	671	181.62	7,482	4,377
181.11	6,788	739	181.63	7,495	4,452
181.12	6,802	806	181.64	7,509	4,527
181.13	6,816	875	181.65	7,522	4,602
181.14	6,829	943	181.66	7,536	4,678
181.15	6,843	1,011	181.67	7,550	4,753
181.16	6,856	1,080	181.68	7,563	4,829
181.17	6,870	1,148	181.69	7,577	4,904
181.18	6,884	1,217	181.70	7,590	4,980
181.19	6,897	1,286	181.71	7,604	5,056
181.20	6,911	1,355	181.72	7,617	5,132
181.21	6,924	1,424	181.73	7,631	5,209
181.22	6,938	1,493	181.74	7,645	5,285
181.23	6,952	1,563	181.75	7,658	5,361
181.24	6,965	1,632	181.76	7,672	5,438
181.25	6,979	1,702	181.77	7,685	5,515
181.26	6,992	1,772	181.78	7,699	5,592
181.27	7,006	1,842	181.79	7,713	5,669
181.28	7,020	1,912	181.80	7,726	5,746
181.29	7,033	1,982	181.81	7,740	5,823
181.30	7,047	2,053	181.82	7,753	5,901
181.31	7,060	2,123	181.83	7,767	5,978
181.32	7,074	2,194	181.84	7,781	6,056
181.33	7,087	2,265	181.85	7,794	6,134
181.34	7,101	2,336	181.86	7,808	6,212
181.35	7,115	2,407	181.87	7,821	6,290
181.36	7,128	2,478	181.88	7,835	6,369
181.37	7,142	2,549	181.89	7,849	6,447
181.38	7,155	2,621	181.90	7,862	6,525
181.39	7,169	2,693	181.91	7,876	6,604
181.40	7,183	2,764	181.92	7,889	6,683
181.41	7,196	2,836	181.93	7,903	6,762
181.42	7,210	2,908	181.94	7,916	6,841
181.43	7,223	2,980	181.95	7,930	6,920
181.44	7,237	3,053	181.96	7,944	7,000
181.45	7,251	3,125	181.97	7,957	7,079
181.46	7,264	3,198	181.98	7,971	7,159
181.47	7,278	3,270	181.99	7,984	7,239
181.48	7,291	3,343	182.00	7,998	7,319
181.49	7,305	3,416	182.01	8,012	7,399
181.50	7,319	3,489	182.02	8,026	7,479
181.51	7,332	3,563	182.03	8,040	7,559

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.04	8,055	7,640	182.56	8,790	12,019
182.05	8,069	7,720	182.57	8,805	12,107
182.06	8,083	7,801	182.58	8,819	12,195
182.07	8,097	7,882	182.59	8,833	12,284
182.08	8,111	7,963	182.60	8,847	12,372
182.09	8,125	8,044	182.61	8,861	12,461
182.10	8,139	8,125	182.62	8,875	12,549
182.11	8,154	8,207	182.63	8,889	12,638
182.12	8,168	8,288	182.64	8,904	12,727
182.13	8,182	8,370	182.65	8,918	12,816
182.14	8,196	8,452	182.66	8,932	12,905
182.15	8,210	8,534	182.67	8,946	12,995
182.16	8,224	8,616	182.68	8,960	13,084
182.17	8,239	8,699	182.69	8,974	13,174
182.18	8,253	8,781	182.70	8,988	13,264
182.19	8,267	8,864	182.71	9,003	13,354
182.20	8,281	8,946	182.72	9,017	13,444
182.21	8,295	9,029	182.73	9,031	13,534
182.22	8,309	9,112	182.74	9,045	13,624
182.23	8,323	9,195	182.75	9,059	13,715
182.24	8,338	9,279	182.76	9,073	13,806
182.25	8,352	9,362	182.77	9,088	13,896
182.26	8,366	9,446	182.78	9,102	13,987
182.27	8,380	9,530	182.79	9,116	14,078
182.28	8,394	9,613	182.80	9,130	14,170
182.29	8,408	9,697	182.81	9,144	14,261
182.30	8,423	9,782	182.82	9,158	14,353
182.31	8,437	9,866	182.83	9,172	14,444
182.32	8,451	9,950	182.84	9,187	14,536
182.33	8,465	10,035	182.85	9,201	14,628
182.34	8,479	10,120	182.86	9,215	14,720
182.35	8,493	10,204	182.87	9,229	14,812
182.36	8,507	10,289	182.88	9,243	14,905
182.37	8,522	10,375	182.89	9,257	14,997
182.38	8,536	10,460	182.90	9,272	15,090
182.39	8,550	10,545	182.91	9,286	15,183
182.40	8,564	10,631	182.92	9,300	15,275
182.41	8,578	10,717	182.93	9,314	15,369
182.42	8,592	10,802	182.94	9,328	15,462
182.43	8,606	10,888	182.95	9,342	15,555
182.44	8,621	10,975	182.96	9,356	15,649
182.45	8,635	11,061	182.97	9,371	15,742
182.46	8,649	11,147	182.98	9,385	15,836
182.47	8,663	11,234	182.99	9,399	15,930
182.48	8,677	11,321	183.00	9,413	16,024
182.49	8,691	11,407	183.01	9,444	16,118
182.50	8,706	11,494	183.02	9,475	16,213
182.51	8,720	11,582	183.03	9,506	16,308
182.52	8,734	11,669	183.04	9,537	16,403
182.53	8,748	11,756	183.05	9,568	16,499
182.54	8,762	11,844	183.06	9,599	16,594
182.55	8,776	11,931	183.07	9,630	16,691

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.08	9,661	16,787	183.60	11,274	22,230
183.09	9,692	16,884	183.61	11,305	22,343
183.10	9,723	16,981	183.62	11,336	22,456
183.11	9,754	17,078	183.63	11,367	22,570
183.12	9,785	17,176	183.64	11,398	22,684
183.13	9,816	17,274	183.65	11,429	22,798
183.14	9,847	17,372	183.66	11,460	22,912
183.15	9,878	17,471	183.67	11,491	23,027
183.16	9,909	17,570	183.68	11,522	23,142
183.17	9,940	17,669	183.69	11,553	23,257
183.18	9,971	17,769	183.70	11,584	23,373
183.19	10,002	17,868	183.71	11,615	23,489
183.20	10,033	17,969	183.72	11,646	23,605
183.21	10,064	18,069	183.73	11,677	23,722
183.22	10,095	18,170	183.74	11,708	23,839
183.23	10,126	18,271	183.75	11,740	23,956
183.24	10,157	18,372	183.76	11,771	24,074
183.25	10,189	18,474	183.77	11,802	24,192
183.26	10,220	18,576	183.78	11,833	24,310
183.27	10,251	18,679	183.79	11,864	24,428
183.28	10,282	18,781	183.80	11,895	24,547
183.29	10,313	18,884	183.81	11,926	24,666
183.30	10,344	18,987	183.82	11,957	24,786
183.31	10,375	19,091	183.83	11,988	24,905
183.32	10,406	19,195	183.84	12,019	25,025
183.33	10,437	19,299	183.85	12,050	25,146
183.34	10,468	19,404	183.86	12,081	25,266
183.35	10,499	19,509	183.87	12,112	25,387
183.36	10,530	19,614	183.88	12,143	25,509
183.37	10,561	19,719	183.89	12,174	25,630
183.38	10,592	19,825	183.90	12,205	25,752
183.39	10,623	19,931	183.91	12,236	25,874
183.40	10,654	20,037	183.92	12,267	25,997
183.41	10,685	20,144	183.93	12,298	26,120
183.42	10,716	20,251	183.94	12,329	26,243
183.43	10,747	20,358	183.95	12,360	26,366
183.44	10,778	20,466	183.96	12,391	26,490
183.45	10,809	20,574	183.97	12,422	26,614
183.46	10,840	20,682	183.98	12,453	26,738
183.47	10,871	20,791	183.99	12,484	26,863
183.48	10,902	20,900	184.00	12,515	26,988
183.49	10,933	21,009	184.01	12,531	27,113
183.50	10,964	21,118	184.02	12,547	27,239
183.51	10,995	21,228	184.03	12,563	27,364
183.52	11,026	21,338	184.04	12,580	27,490
183.53	11,057	21,449	184.05	12,596	27,616
183.54	11,088	21,559	184.06	12,612	27,742
183.55	11,119	21,670	184.07	12,628	27,868
183.56	11,150	21,782	184.08	12,644	27,994
183.57	11,181	21,893	184.09	12,660	28,121
183.58	11,212	22,005	184.10	12,676	28,248
183.59	11,243	22,118	184.11	12,692	28,374

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.12	12,709	28,501
184.13	12,725	28,629
184.14	12,741	28,756
184.15	12,757	28,883
184.16	12,773	29,011
184.17	12,789	29,139
184.18	12,805	29,267
184.19	12,821	29,395
184.20	12,838	29,523
184.21	12,854	29,652
184.22	12,870	29,780
184.23	12,886	29,909
184.24	12,902	30,038
184.25	12,918	30,167
184.26	12,934	30,296
184.27	12,951	30,426
184.28	12,967	30,555
184.29	12,983	30,685
184.30	12,999	30,815
184.31	13,015	30,945
184.32	13,031	31,075
184.33	13,047	31,206
184.34	13,063	31,336
184.35	13,080	31,467
184.36	13,096	31,598
184.37	13,112	31,729
184.38	13,128	31,860
184.39	13,144	31,992
184.40	13,160	32,123
184.41	13,176	32,255
184.42	13,192	32,387
184.43	13,209	32,519
184.44	13,225	32,651
184.45	13,241	32,783
184.46	13,257	32,916
184.47	13,273	33,048
184.48	13,289	33,181
184.49	13,305	33,314
184.50	13,322	33,447
184.51	13,338	33,580
184.52	13,354	33,714
184.53	13,370	33,847
184.54	13,386	33,981
184.55	13,402	34,115
184.56	13,418	34,249
184.57	13,434	34,384
184.58	13,451	34,518
184.59	13,467	34,653
184.60	13,483	34,787
184.61	13,499	34,922
184.62	13,515	35,057
184.63	13,531	35,193
184.64	13,547	35,328
184.65	13,563	35,463
184.66	13,580	35,599
184.67	13,596	35,735
184.68	13,612	35,871
184.69	13,628	36,007
184.70	13,644	36,144
184.71	13,660	36,280
184.72	13,676	36,417
184.73	13,692	36,554
184.74	13,709	36,691
184.75	13,725	36,828
184.76	13,741	36,965
184.77	13,757	37,103
184.78	13,773	37,240
184.79	13,789	37,378
184.80	13,805	37,516
184.81	13,822	37,654
184.82	13,838	37,793
184.83	13,854	37,931
184.84	13,870	38,070
184.85	13,886	38,208
184.86	13,902	38,347
184.87	13,918	38,486
184.88	13,934	38,626
184.89	13,951	38,765
184.90	13,967	38,905
184.91	13,983	39,045
184.92	13,999	39,184
184.93	14,015	39,324
184.94	14,031	39,465
184.95	14,047	39,605
184.96	14,063	39,746
184.97	14,080	39,886
184.98	14,096	40,027
184.99	14,112	40,168
185.00	14,128	40,310
185.01	14,145	40,451
185.02	14,161	40,592
185.03	14,178	40,734
185.04	14,195	40,876
185.05	14,212	41,018
185.06	14,228	41,160
185.07	14,245	41,303
185.08	14,262	41,445
185.09	14,278	41,588
185.10	14,295	41,731
185.11	14,312	41,874
185.12	14,328	42,017
185.13	14,345	42,160
185.14	14,362	42,304
185.15	14,379	42,447

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.16	14,395	42,591
185.17	14,412	42,735
185.18	14,429	42,880
185.19	14,445	43,024
185.20	14,462	43,168
185.21	14,479	43,313
185.22	14,495	43,458
185.23	14,512	43,603
185.24	14,529	43,748
185.25	14,546	43,894
185.26	14,562	44,039
185.27	14,579	44,185
185.28	14,596	44,331
185.29	14,612	44,477
185.30	14,629	44,623
185.31	14,646	44,769
185.32	14,662	44,916
185.33	14,679	45,063
185.34	14,696	45,210
185.35	14,712	45,357
185.36	14,729	45,504
185.37	14,746	45,651
185.38	14,763	45,799
185.39	14,779	45,946
185.40	14,796	46,094
185.41	14,813	46,242
185.42	14,829	46,391
185.43	14,846	46,539
185.44	14,863	46,687
185.45	14,879	46,836
185.46	14,896	46,985
185.47	14,913	47,134
185.48	14,930	47,283
185.49	14,946	47,433
185.50	14,963	47,582
185.51	14,980	47,732
185.52	14,996	47,882
185.53	15,013	48,032
185.54	15,030	48,182
185.55	15,047	48,332
185.56	15,063	48,483
185.57	15,080	48,634
185.58	15,097	48,785
185.59	15,113	48,936
185.60	15,130	49,087
185.61	15,147	49,238
185.62	15,163	49,390
185.63	15,180	49,542
185.64	15,197	49,693
185.65	15,214	49,845
185.66	15,230	49,998
185.67	15,247	50,150
185.68	15,264	50,303
185.69	15,280	50,455
185.70	15,297	50,608
185.71	15,314	50,761
185.72	15,330	50,915
185.73	15,347	51,068
185.74	15,364	51,221
185.75	15,381	51,375
185.76	15,397	51,529
185.77	15,414	51,683
185.78	15,431	51,837
185.79	15,447	51,992
185.80	15,464	52,146
185.81	15,481	52,301
185.82	15,497	52,456
185.83	15,514	52,611
185.84	15,531	52,766
185.85	15,547	52,922
185.86	15,564	53,077
185.87	15,581	53,233
185.88	15,598	53,389
185.89	15,614	53,545
185.90	15,631	53,701
185.91	15,648	53,857
185.92	15,664	54,014
185.93	15,681	54,171
185.94	15,698	54,328
185.95	15,714	54,485
185.96	15,731	54,642
185.97	15,748	54,799
185.98	15,765	54,957
185.99	15,781	55,115
186.00	15,798	55,273
186.01	15,815	55,431
186.02	15,833	55,589
186.03	15,850	55,747
186.04	15,867	55,906
186.05	15,884	56,065
186.06	15,902	56,223
186.07	15,919	56,383
186.08	15,936	56,542
186.09	15,953	56,701
186.10	15,971	56,861
186.11	15,988	57,021
186.12	16,005	57,181
186.13	16,022	57,341
186.14	16,040	57,501
186.15	16,057	57,662
186.16	16,074	57,822
186.17	16,091	57,983
186.18	16,109	58,144
186.19	16,126	58,305

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.20	16,143	58,467	186.72	17,041	67,094
186.21	16,160	58,628	186.73	17,058	67,265
186.22	16,178	58,790	186.74	17,075	67,436
186.23	16,195	58,952	186.75	17,093	67,606
186.24	16,212	59,114	186.76	17,110	67,777
186.25	16,230	59,276	186.77	17,127	67,949
186.26	16,247	59,438	186.78	17,144	68,120
186.27	16,264	59,601	186.79	17,162	68,292
186.28	16,281	59,764	186.80	17,179	68,463
186.29	16,299	59,926	186.81	17,196	68,635
186.30	16,316	60,090	186.82	17,213	68,807
186.31	16,333	60,253	186.83	17,231	68,979
186.32	16,350	60,416	186.84	17,248	69,152
186.33	16,368	60,580	186.85	17,265	69,324
186.34	16,385	60,744	186.86	17,282	69,497
186.35	16,402	60,908	186.87	17,300	69,670
186.36	16,419	61,072	186.88	17,317	69,843
186.37	16,437	61,236	186.89	17,334	70,016
186.38	16,454	61,400	186.90	17,351	70,190
186.39	16,471	61,565	186.91	17,369	70,363
186.40	16,488	61,730	186.92	17,386	70,537
186.41	16,506	61,895	186.93	17,403	70,711
186.42	16,523	62,060	186.94	17,420	70,885
186.43	16,540	62,225	186.95	17,438	71,059
186.44	16,557	62,391	186.96	17,455	71,234
186.45	16,575	62,556	186.97	17,472	71,409
186.46	16,592	62,722	186.98	17,489	71,583
186.47	16,609	62,888	186.99	17,507	71,758
186.48	16,626	63,054	187.00	17,524	71,934
186.49	16,644	63,221	187.01	17,542	72,109
186.50	16,661	63,387	187.02	17,560	72,284
186.51	16,678	63,554	187.03	17,578	72,460
186.52	16,696	63,721	187.04	17,595	72,636
186.53	16,713	63,888	187.05	17,613	72,812
186.54	16,730	64,055	187.06	17,631	72,988
186.55	16,747	64,222	187.07	17,649	73,165
186.56	16,765	64,390	187.08	17,667	73,341
186.57	16,782	64,558	187.09	17,685	73,518
186.58	16,799	64,726	187.10	17,703	73,695
186.59	16,816	64,894	187.11	17,720	73,872
186.60	16,834	65,062	187.12	17,738	74,049
186.61	16,851	65,230	187.13	17,756	74,227
186.62	16,868	65,399	187.14	17,774	74,404
186.63	16,885	65,568	187.15	17,792	74,582
186.64	16,903	65,737	187.16	17,810	74,760
186.65	16,920	65,906	187.17	17,828	74,938
186.66	16,937	66,075	187.18	17,845	75,117
186.67	16,954	66,245	187.19	17,863	75,295
186.68	16,972	66,414	187.20	17,881	75,474
186.69	16,989	66,584	187.21	17,899	75,653
186.70	17,006	66,754	187.22	17,917	75,832
186.71	17,023	66,924	187.23	17,935	76,011

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.24	17,953	76,191
187.25	17,971	76,370
187.26	17,988	76,550
187.27	18,006	76,730
187.28	18,024	76,910
187.29	18,042	77,091
187.30	18,060	77,271
187.31	18,078	77,452
187.32	18,096	77,633
187.33	18,113	77,814
187.34	18,131	77,995
187.35	18,149	78,176
187.36	18,167	78,358
187.37	18,185	78,540
187.38	18,203	78,722
187.39	18,221	78,904
187.40	18,238	79,086
187.41	18,256	79,268
187.42	18,274	79,451
187.43	18,292	79,634
187.44	18,310	79,817
187.45	18,328	80,000
187.46	18,346	80,183
187.47	18,363	80,367
187.48	18,381	80,551
187.49	18,399	80,735
187.50	18,417	80,919
187.51	18,435	81,103
187.52	18,453	81,287
187.53	18,471	81,472
187.54	18,488	81,657
187.55	18,506	81,842
187.56	18,524	82,027
187.57	18,542	82,212
187.58	18,560	82,398
187.59	18,578	82,584
187.60	18,596	82,769
187.61	18,613	82,955
187.62	18,631	83,142
187.63	18,649	83,328
187.64	18,667	83,515
187.65	18,685	83,701
187.66	18,703	83,888
187.67	18,721	84,075
187.68	18,738	84,263
187.69	18,756	84,450
187.70	18,774	84,638
187.71	18,792	84,826
187.72	18,810	85,014
187.73	18,828	85,202
187.74	18,846	85,390
187.75	18,864	85,579
187.76	18,881	85,768
187.77	18,899	85,956
187.78	18,917	86,146
187.79	18,935	86,335
187.80	18,953	86,524
187.81	18,971	86,714
187.82	18,989	86,904
187.83	19,006	87,094
187.84	19,024	87,284
187.85	19,042	87,474
187.86	19,060	87,665
187.87	19,078	87,855
187.88	19,096	88,046
187.89	19,114	88,237
187.90	19,131	88,428
187.91	19,149	88,620
187.92	19,167	88,811
187.93	19,185	89,003
187.94	19,203	89,195
187.95	19,221	89,387
187.96	19,239	89,580
187.97	19,256	89,772
187.98	19,274	89,965
187.99	19,292	90,157
188.00	**19,310**	**90,351**

Summary for Pond B-46B: Basin #46B

Inflow Area = 2.931 ac, 39.13% Impervious, Inflow Depth = 0.23" for Future 2 yr event
Inflow = 0.98 cfs @ 12.05 hrs, Volume= 0.056 af
Outflow = 0.00 cfs @ 24.04 hrs, Volume= 0.003 af, Atten= 100%, Lag= 719.5 min
Primary = 0.00 cfs @ 24.04 hrs, Volume= 0.003 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 183.85' @ 24.04 hrs Surf.Area= 8,714 sf Storage= 2,403 cf

Plug-Flow detention time= 1,089.7 min calculated for 0.003 af (6% of inflow)
Center-of-Mass det. time= 923.1 min (1,772.1 - 849.0)

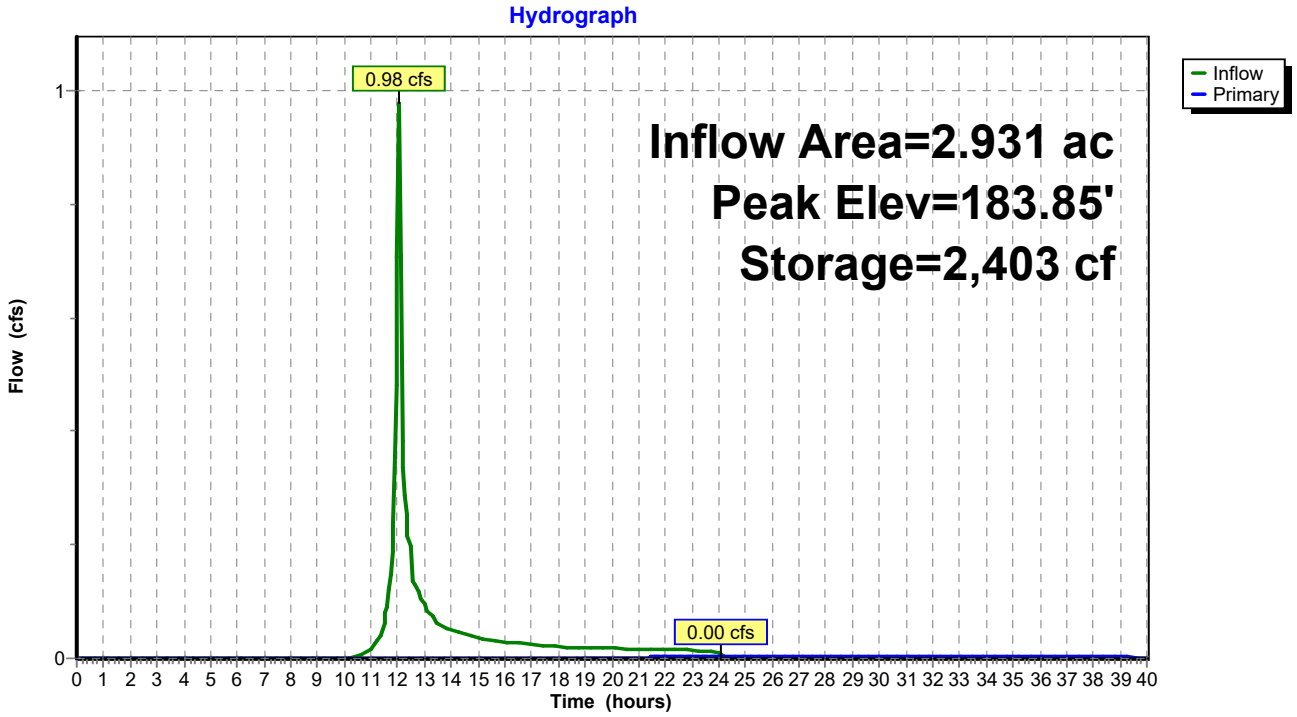
Volume	Invert	Avail.Storage	Storage Description
#1	183.30'	59,250 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
183.30	0	0	0
184.00	11,059	3,871	3,871
185.00	12,402	11,731	15,601
186.00	13,803	13,103	28,704
187.00	15,259	14,531	43,235
188.00	16,772	16,016	59,250

Device	Routing	Invert	Outlet Devices
#1	Primary	182.65'	**18.0" Round Culvert** L= 65.0' Ke= 0.500 Inlet / Outlet Invert= 182.65' / 176.00' S= 0.1023 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	183.82'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.45'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.75'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 24.04 hrs HW=183.85' (Free Discharge)
- **1=Culvert** (Passes 0.00 cfs of 5.66 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.00 cfs @ 0.61 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-46B: Basin #46B



Stage-Discharge for Pond B-46B: Basin #46B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.30	0.00	183.82	0.00	184.34	0.11	184.86	3.52
183.31	0.00	183.83	0.00	184.35	0.11	184.87	3.65
183.32	0.00	183.84	0.00	184.36	0.11	184.88	3.77
183.33	0.00	183.85	0.00	184.37	0.11	184.89	3.89
183.34	0.00	183.86	0.00	184.38	0.11	184.90	4.02
183.35	0.00	183.87	0.00	184.39	0.11	184.91	4.15
183.36	0.00	183.88	0.01	184.40	0.11	184.92	4.28
183.37	0.00	183.89	0.01	184.41	0.11	184.93	4.41
183.38	0.00	183.90	0.01	184.42	0.12	184.94	4.54
183.39	0.00	183.91	0.01	184.43	0.12	184.95	4.68
183.40	0.00	183.92	0.02	184.44	0.12	184.96	4.81
183.41	0.00	183.93	0.02	184.45	0.12	184.97	4.95
183.42	0.00	183.94	0.02	184.46	0.13	184.98	5.08
183.43	0.00	183.95	0.03	184.47	0.16	184.99	5.22
183.44	0.00	183.96	0.03	184.48	0.19	185.00	5.36
183.45	0.00	183.97	0.03	184.49	0.23	185.01	5.50
183.46	0.00	183.98	0.04	184.50	0.27	185.02	5.64
183.47	0.00	183.99	0.04	184.51	0.32	185.03	5.78
183.48	0.00	184.00	0.05	184.52	0.37	185.04	5.93
183.49	0.00	184.01	0.05	184.53	0.42	185.05	6.07
183.50	0.00	184.02	0.05	184.54	0.48	185.06	6.22
183.51	0.00	184.03	0.05	184.55	0.54	185.07	6.36
183.52	0.00	184.04	0.06	184.56	0.61	185.08	6.51
183.53	0.00	184.05	0.06	184.57	0.67	185.09	6.66
183.54	0.00	184.06	0.06	184.58	0.74	185.10	6.81
183.55	0.00	184.07	0.06	184.59	0.81	185.11	6.96
183.56	0.00	184.08	0.06	184.60	0.89	185.12	7.11
183.57	0.00	184.09	0.07	184.61	0.97	185.13	7.27
183.58	0.00	184.10	0.07	184.62	1.05	185.14	7.42
183.59	0.00	184.11	0.07	184.63	1.13	185.15	7.57
183.60	0.00	184.12	0.07	184.64	1.21	185.16	7.73
183.61	0.00	184.13	0.07	184.65	1.30	185.17	7.89
183.62	0.00	184.14	0.08	184.66	1.39	185.18	8.04
183.63	0.00	184.15	0.08	184.67	1.48	185.19	8.20
183.64	0.00	184.16	0.08	184.68	1.57	185.20	8.36
183.65	0.00	184.17	0.08	184.69	1.66	185.21	8.52
183.66	0.00	184.18	0.08	184.70	1.76	185.22	8.68
183.67	0.00	184.19	0.08	184.71	1.86	185.23	8.85
183.68	0.00	184.20	0.09	184.72	1.96	185.24	9.01
183.69	0.00	184.21	0.09	184.73	2.06	185.25	9.17
183.70	0.00	184.22	0.09	184.74	2.16	185.26	9.34
183.71	0.00	184.23	0.09	184.75	2.27	185.27	9.50
183.72	0.00	184.24	0.09	184.76	2.37	185.28	9.67
183.73	0.00	184.25	0.09	184.77	2.48	185.29	9.84
183.74	0.00	184.26	0.10	184.78	2.59	185.30	10.01
183.75	0.00	184.27	0.10	184.79	2.70	185.31	10.18
183.76	0.00	184.28	0.10	184.80	2.81	185.32	10.35
183.77	0.00	184.29	0.10	184.81	2.93	185.33	10.52
183.78	0.00	184.30	0.10	184.82	3.04	185.34	10.69
183.79	0.00	184.31	0.10	184.83	3.16	185.35	10.86
183.80	0.00	184.32	0.10	184.84	3.28	185.36	11.03
183.81	0.00	184.33	0.10	184.85	3.40	185.37	11.21

Stage-Discharge for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.38	11.38	185.90	20.30	186.42	91.01	186.94	198.59
185.39	11.56	185.91	21.03	186.43	92.75	186.95	200.94
185.40	11.74	185.92	21.78	186.44	94.51	186.96	203.32
185.41	11.91	185.93	22.55	186.45	96.28	186.97	205.72
185.42	12.09	185.94	23.34	186.46	98.06	186.98	208.13
185.43	12.12	185.95	24.15	186.47	99.86	186.99	210.55
185.44	12.15	185.96	25.03	186.48	101.66	187.00	212.98
185.45	12.18	185.97	25.92	186.49	103.49	187.01	215.43
185.46	12.21	185.98	26.85	186.50	105.32	187.02	217.88
185.47	12.24	185.99	27.80	186.51	107.16	187.03	220.34
185.48	12.27	186.00	28.77	186.52	109.02	187.04	222.82
185.49	12.30	186.01	29.77	186.53	110.89	187.05	225.30
185.50	12.33	186.02	30.80	186.54	112.77	187.06	227.79
185.51	12.36	186.03	31.85	186.55	114.67	187.07	230.30
185.52	12.39	186.04	32.92	186.56	116.61	187.08	232.82
185.53	12.42	186.05	34.02	186.57	118.57	187.09	235.34
185.54	12.45	186.06	35.14	186.58	120.54	187.10	237.88
185.55	12.48	186.07	36.29	186.59	122.52	187.11	240.42
185.56	12.51	186.08	37.46	186.60	124.52	187.12	242.98
185.57	12.53	186.09	38.66	186.61	126.53	187.13	245.55
185.58	12.56	186.10	39.88	186.62	128.55	187.14	248.13
185.59	12.59	186.11	41.12	186.63	130.58	187.15	250.71
185.60	12.62	186.12	42.39	186.64	132.63	187.16	253.36
185.61	12.65	186.13	43.68	186.65	134.69	187.17	256.01
185.62	12.68	186.14	45.00	186.66	136.77	187.18	258.67
185.63	12.71	186.15	46.34	186.67	138.85	187.19	261.35
185.64	12.73	186.16	47.73	186.68	140.95	187.20	264.04
185.65	12.76	186.17	49.15	186.69	143.07	187.21	266.74
185.66	12.79	186.18	50.59	186.70	145.19	187.22	269.45
185.67	12.82	186.19	52.06	186.71	147.33	187.23	272.17
185.68	12.85	186.20	53.56	186.72	149.48	187.24	274.90
185.69	12.88	186.21	55.08	186.73	151.64	187.25	277.64
185.70	12.90	186.22	56.63	186.74	153.82	187.26	280.39
185.71	12.93	186.23	58.20	186.75	156.01	187.27	283.16
185.72	12.96	186.24	59.80	186.76	158.15	187.28	285.93
185.73	12.99	186.25	61.43	186.77	160.31	187.29	288.72
185.74	13.02	186.26	63.08	186.78	162.48	187.30	291.52
185.75	13.04	186.27	64.76	186.79	164.66	187.31	294.32
185.76	13.19	186.28	66.47	186.80	166.85	187.32	297.14
185.77	13.43	186.29	68.20	186.81	169.05	187.33	299.97
185.78	13.74	186.30	69.96	186.82	171.26	187.34	302.81
185.79	14.09	186.31	71.75	186.83	173.48	187.35	305.67
185.80	14.49	186.32	73.56	186.84	175.71	187.36	308.53
185.81	14.93	186.33	75.40	186.85	177.95	187.37	311.40
185.82	15.41	186.34	77.27	186.86	180.21	187.38	314.29
185.83	15.92	186.35	79.16	186.87	182.47	187.39	317.18
185.84	16.46	186.36	80.82	186.88	184.74	187.40	320.09
185.85	17.04	186.37	82.48	186.89	187.03	187.41	323.00
185.86	17.64	186.38	84.16	186.90	189.32	187.42	325.93
185.87	18.26	186.39	85.85	186.91	191.62	187.43	328.87
185.88	18.92	186.40	87.56	186.92	193.94	187.44	331.82
185.89	19.60	186.41	89.27	186.93	196.26	187.45	334.78

Stage-Discharge for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Primary (cfs)
187.46	337.75
187.47	340.73
187.48	343.72
187.49	346.72
187.50	349.74
187.51	352.76
187.52	355.79
187.53	358.84
187.54	361.90
187.55	364.96
187.56	368.04
187.57	371.13
187.58	374.22
187.59	377.33
187.60	380.45
187.61	383.58
187.62	386.72
187.63	389.87
187.64	393.03
187.65	396.20
187.66	399.38
187.67	402.58
187.68	405.78
187.69	408.99
187.70	412.22
187.71	415.45
187.72	418.69
187.73	421.95
187.74	425.21
187.75	428.49
187.76	431.84
187.77	435.20
187.78	438.57
187.79	441.95
187.80	445.35
187.81	448.75
187.82	452.17
187.83	455.60
187.84	459.04
187.85	462.49
187.86	465.95
187.87	469.42
187.88	472.91
187.89	476.40
187.90	479.91
187.91	483.43
187.92	486.96
187.93	490.50
187.94	494.05
187.95	497.61
187.96	501.19
187.97	504.78
187.98	508.37
187.99	511.98
188.00	**515.60**

Stage-Area-Storage for Pond B-46B: Basin #46B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.30	0	0
183.31	158	1
183.32	316	3
183.33	474	7
183.34	632	13
183.35	790	20
183.36	948	28
183.37	1,106	39
183.38	1,264	51
183.39	1,422	64
183.40	1,580	79
183.41	1,738	96
183.42	1,896	114
183.43	2,054	133
183.44	2,212	155
183.45	2,370	178
183.46	2,528	202
183.47	2,686	228
183.48	2,844	256
183.49	3,002	285
183.50	3,160	316
183.51	3,318	348
183.52	3,476	382
183.53	3,634	418
183.54	3,792	455
183.55	3,950	494
183.56	4,108	534
183.57	4,266	576
183.58	4,424	619
183.59	4,582	664
183.60	4,740	711
183.61	4,898	759
183.62	5,056	809
183.63	5,214	860
183.64	5,372	913
183.65	5,530	968
183.66	5,687	1,024
183.67	5,845	1,081
183.68	6,003	1,141
183.69	6,161	1,201
183.70	6,319	1,264
183.71	6,477	1,328
183.72	6,635	1,393
183.73	6,793	1,461
183.74	6,951	1,529
183.75	7,109	1,600
183.76	7,267	1,671
183.77	7,425	1,745
183.78	7,583	1,820
183.79	7,741	1,897
183.80	7,899	1,975
183.81	8,057	2,055
183.82	8,215	2,136
183.83	8,373	2,219
183.84	8,531	2,303
183.85	8,689	2,390
183.86	8,847	2,477
183.87	9,005	2,566
183.88	9,163	2,657
183.89	9,321	2,750
183.90	9,479	2,844
183.91	9,637	2,939
183.92	9,795	3,036
183.93	9,953	3,135
183.94	10,111	3,236
183.95	10,269	3,337
183.96	10,427	3,441
183.97	10,585	3,546
183.98	10,743	3,653
183.99	10,901	3,761
184.00	11,059	3,871
184.01	11,072	3,981
184.02	11,086	4,092
184.03	11,099	4,203
184.04	11,113	4,314
184.05	11,126	4,425
184.06	11,140	4,537
184.07	11,153	4,648
184.08	11,166	4,760
184.09	11,180	4,871
184.10	11,193	4,983
184.11	11,207	5,095
184.12	11,220	5,207
184.13	11,234	5,320
184.14	11,247	5,432
184.15	11,260	5,545
184.16	11,274	5,657
184.17	11,287	5,770
184.18	11,301	5,883
184.19	11,314	5,996
184.20	11,328	6,109
184.21	11,341	6,223
184.22	11,354	6,336
184.23	11,368	6,450
184.24	11,381	6,563
184.25	11,395	6,677
184.26	11,408	6,791
184.27	11,422	6,906
184.28	11,435	7,020
184.29	11,448	7,134
184.30	11,462	7,249
184.31	11,475	7,363
184.32	11,489	7,478
184.33	11,502	7,593

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.34	11,516	7,708	184.86	12,214	13,878
184.35	11,529	7,824	184.87	12,227	14,000
184.36	11,542	7,939	184.88	12,241	14,123
184.37	11,556	8,054	184.89	12,254	14,245
184.38	11,569	8,170	184.90	12,268	14,368
184.39	11,583	8,286	184.91	12,281	14,490
184.40	11,596	8,402	184.92	12,295	14,613
184.41	11,610	8,518	184.93	12,308	14,736
184.42	11,623	8,634	184.94	12,321	14,859
184.43	11,636	8,750	184.95	12,335	14,983
184.44	11,650	8,867	184.96	12,348	15,106
184.45	11,663	8,983	184.97	12,362	15,230
184.46	11,677	9,100	184.98	12,375	15,353
184.47	11,690	9,217	184.99	12,389	15,477
184.48	11,704	9,334	185.00	12,402	15,601
184.49	11,717	9,451	185.01	12,416	15,725
184.50	11,731	9,568	185.02	12,430	15,849
184.51	11,744	9,685	185.03	12,444	15,974
184.52	11,757	9,803	185.04	12,458	16,098
184.53	11,771	9,921	185.05	12,472	16,223
184.54	11,784	10,038	185.06	12,486	16,348
184.55	11,798	10,156	185.07	12,500	16,473
184.56	11,811	10,274	185.08	12,514	16,598
184.57	11,825	10,392	185.09	12,528	16,723
184.58	11,838	10,511	185.10	12,542	16,848
184.59	11,851	10,629	185.11	12,556	16,974
184.60	11,865	10,748	185.12	12,570	17,099
184.61	11,878	10,867	185.13	12,584	17,225
184.62	11,892	10,985	185.14	12,598	17,351
184.63	11,905	11,104	185.15	12,612	17,477
184.64	11,919	11,223	185.16	12,626	17,603
184.65	11,932	11,343	185.17	12,640	17,730
184.66	11,945	11,462	185.18	12,654	17,856
184.67	11,959	11,582	185.19	12,668	17,983
184.68	11,972	11,701	185.20	12,682	18,110
184.69	11,986	11,821	185.21	12,696	18,236
184.70	11,999	11,941	185.22	12,710	18,363
184.71	12,013	12,061	185.23	12,724	18,491
184.72	12,026	12,181	185.24	12,738	18,618
184.73	12,039	12,302	185.25	12,752	18,745
184.74	12,053	12,422	185.26	12,766	18,873
184.75	12,066	12,543	185.27	12,780	19,001
184.76	12,080	12,663	185.28	12,794	19,129
184.77	12,093	12,784	185.29	12,808	19,257
184.78	12,107	12,905	185.30	12,822	19,385
184.79	12,120	13,026	185.31	12,836	19,513
184.80	12,133	13,148	185.32	12,850	19,642
184.81	12,147	13,269	185.33	12,864	19,770
184.82	12,160	13,391	185.34	12,878	19,899
184.83	12,174	13,512	185.35	12,892	20,028
184.84	12,187	13,634	185.36	12,906	20,157
184.85	12,201	13,756	185.37	12,920	20,286

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.38	12,934	20,415
185.39	12,948	20,544
185.40	12,962	20,674
185.41	12,976	20,804
185.42	12,990	20,934
185.43	13,004	21,064
185.44	13,018	21,194
185.45	13,032	21,324
185.46	13,046	21,454
185.47	13,060	21,585
185.48	13,074	21,716
185.49	13,088	21,846
185.50	13,103	21,977
185.51	13,117	22,108
185.52	13,131	22,240
185.53	13,145	22,371
185.54	13,159	22,502
185.55	13,173	22,634
185.56	13,187	22,766
185.57	13,201	22,898
185.58	13,215	23,030
185.59	13,229	23,162
185.60	13,243	23,295
185.61	13,257	23,427
185.62	13,271	23,560
185.63	13,285	23,692
185.64	13,299	23,825
185.65	13,313	23,958
185.66	13,327	24,092
185.67	13,341	24,225
185.68	13,355	24,358
185.69	13,369	24,492
185.70	13,383	24,626
185.71	13,397	24,760
185.72	13,411	24,894
185.73	13,425	25,028
185.74	13,439	25,162
185.75	13,453	25,297
185.76	13,467	25,431
185.77	13,481	25,566
185.78	13,495	25,701
185.79	13,509	25,836
185.80	13,523	25,971
185.81	13,537	26,106
185.82	13,551	26,242
185.83	13,565	26,377
185.84	13,579	26,513
185.85	13,593	26,649
185.86	13,607	26,785
185.87	13,621	26,921
185.88	13,635	27,057
185.89	13,649	27,194
185.90	13,663	27,330
185.91	13,677	27,467
185.92	13,691	27,604
185.93	13,705	27,741
185.94	13,719	27,878
185.95	13,733	28,015
185.96	13,747	28,153
185.97	13,761	28,290
185.98	13,775	28,428
185.99	13,789	28,566
186.00	13,803	28,704
186.01	13,818	28,842
186.02	13,832	28,980
186.03	13,847	29,118
186.04	13,861	29,257
186.05	13,876	29,396
186.06	13,890	29,534
186.07	13,905	29,673
186.08	13,919	29,813
186.09	13,934	29,952
186.10	13,949	30,091
186.11	13,963	30,231
186.12	13,978	30,370
186.13	13,992	30,510
186.14	14,007	30,650
186.15	14,021	30,790
186.16	14,036	30,931
186.17	14,051	31,071
186.18	14,065	31,212
186.19	14,080	31,353
186.20	14,094	31,493
186.21	14,109	31,634
186.22	14,123	31,776
186.23	14,138	31,917
186.24	14,152	32,058
186.25	14,167	32,200
186.26	14,182	32,342
186.27	14,196	32,484
186.28	14,211	32,626
186.29	14,225	32,768
186.30	14,240	32,910
186.31	14,254	33,053
186.32	14,269	33,195
186.33	14,283	33,338
186.34	14,298	33,481
186.35	14,313	33,624
186.36	14,327	33,767
186.37	14,342	33,910
186.38	14,356	34,054
186.39	14,371	34,198
186.40	14,385	34,341
186.41	14,400	34,485

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.42	14,415	34,629
186.43	14,429	34,774
186.44	14,444	34,918
186.45	14,458	35,062
186.46	14,473	35,207
186.47	14,487	35,352
186.48	14,502	35,497
186.49	14,516	35,642
186.50	14,531	35,787
186.51	14,546	35,933
186.52	14,560	36,078
186.53	14,575	36,224
186.54	14,589	36,370
186.55	14,604	36,516
186.56	14,618	36,662
186.57	14,633	36,808
186.58	14,647	36,954
186.59	14,662	37,101
186.60	14,677	37,248
186.61	14,691	37,394
186.62	14,706	37,541
186.63	14,720	37,688
186.64	14,735	37,836
186.65	14,749	37,983
186.66	14,764	38,131
186.67	14,779	38,278
186.68	14,793	38,426
186.69	14,808	38,574
186.70	14,822	38,722
186.71	14,837	38,871
186.72	14,851	39,019
186.73	14,866	39,168
186.74	14,880	39,317
186.75	14,895	39,465
186.76	14,910	39,614
186.77	14,924	39,764
186.78	14,939	39,913
186.79	14,953	40,062
186.80	14,968	40,212
186.81	14,982	40,362
186.82	14,997	40,512
186.83	15,011	40,662
186.84	15,026	40,812
186.85	15,041	40,962
186.86	15,055	41,113
186.87	15,070	41,263
186.88	15,084	41,414
186.89	15,099	41,565
186.90	15,113	41,716
186.91	15,128	41,867
186.92	15,143	42,019
186.93	15,157	42,170
186.94	15,172	42,322
186.95	15,186	42,474
186.96	15,201	42,625
186.97	15,215	42,778
186.98	15,230	42,930
186.99	15,244	43,082
187.00	15,259	43,235
187.01	15,274	43,387
187.02	15,289	43,540
187.03	15,304	43,693
187.04	15,320	43,846
187.05	15,335	43,999
187.06	15,350	44,153
187.07	15,365	44,306
187.08	15,380	44,460
187.09	15,395	44,614
187.10	15,410	44,768
187.11	15,425	44,922
187.12	15,441	45,077
187.13	15,456	45,231
187.14	15,471	45,386
187.15	15,486	45,541
187.16	15,501	45,695
187.17	15,516	45,851
187.18	15,531	46,006
187.19	15,546	46,161
187.20	15,562	46,317
187.21	15,577	46,472
187.22	15,592	46,628
187.23	15,607	46,784
187.24	15,622	46,940
187.25	15,637	47,097
187.26	15,652	47,253
187.27	15,668	47,410
187.28	15,683	47,566
187.29	15,698	47,723
187.30	15,713	47,880
187.31	15,728	48,038
187.32	15,743	48,195
187.33	15,758	48,353
187.34	15,773	48,510
187.35	15,789	48,668
187.36	15,804	48,826
187.37	15,819	48,984
187.38	15,834	49,142
187.39	15,849	49,301
187.40	15,864	49,459
187.41	15,879	49,618
187.42	15,894	49,777
187.43	15,910	49,936
187.44	15,925	50,095
187.45	15,940	50,254

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.46	15,955	50,414
187.47	15,970	50,573
187.48	15,985	50,733
187.49	16,000	50,893
187.50	16,016	51,053
187.51	16,031	51,214
187.52	16,046	51,374
187.53	16,061	51,534
187.54	16,076	51,695
187.55	16,091	51,856
187.56	16,106	52,017
187.57	16,121	52,178
187.58	16,137	52,339
187.59	16,152	52,501
187.60	16,167	52,662
187.61	16,182	52,824
187.62	16,197	52,986
187.63	16,212	53,148
187.64	16,227	53,310
187.65	16,242	53,473
187.66	16,258	53,635
187.67	16,273	53,798
187.68	16,288	53,961
187.69	16,303	54,124
187.70	16,318	54,287
187.71	16,333	54,450
187.72	16,348	54,613
187.73	16,363	54,777
187.74	16,379	54,941
187.75	16,394	55,104
187.76	16,409	55,268
187.77	16,424	55,433
187.78	16,439	55,597
187.79	16,454	55,761
187.80	16,469	55,926
187.81	16,485	56,091
187.82	16,500	56,256
187.83	16,515	56,421
187.84	16,530	56,586
187.85	16,545	56,751
187.86	16,560	56,917
187.87	16,575	57,083
187.88	16,590	57,248
187.89	16,606	57,414
187.90	16,621	57,581
187.91	16,636	57,747
187.92	16,651	57,913
187.93	16,666	58,080
187.94	16,681	58,247
187.95	16,696	58,413
187.96	16,711	58,580
187.97	16,727	58,748
187.98	16,742	58,915
187.99	16,757	59,083
188.00	**16,772**	**59,250**

Summary for Pond B-47: Basin #47

Inflow Area = 2.436 ac, 30.62% Impervious, Inflow Depth = 2.14" for Future 2 yr event
Inflow = 5.33 cfs @ 12.18 hrs, Volume= 0.434 af
Outflow = 0.10 cfs @ 20.65 hrs, Volume= 0.209 af, Atten= 98%, Lag= 508.4 min
Primary = 0.10 cfs @ 20.65 hrs, Volume= 0.209 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 189.34' @ 20.65 hrs Surf.Area= 21,974 sf Storage= 14,808 cf

Plug-Flow detention time= 849.2 min calculated for 0.209 af (48% of inflow)
Center-of-Mass det. time= 716.2 min (1,522.2 - 806.1)

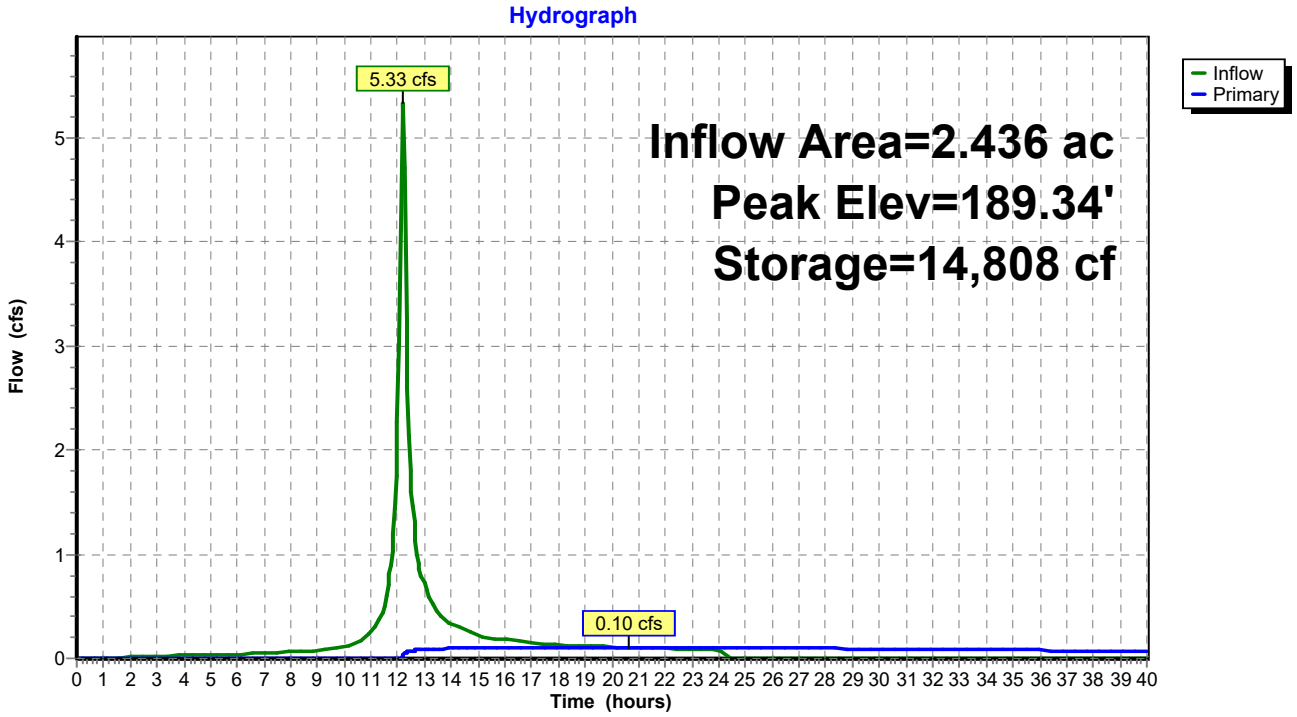
Volume	Invert	Avail.Storage	Storage Description
#1	188.30'	80,305 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
188.30	0	0	0
189.00	21,318	7,461	7,461
190.00	23,252	22,285	29,746
191.00	25,242	24,247	53,993
192.00	27,382	26,312	80,305

Device	Routing	Invert	Outlet Devices
#1	Primary	187.65'	**18.0" Round Culvert** L= 62.0' Ke= 0.500 Inlet / Outlet Invert= 187.65' / 184.00' S= 0.0589 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	188.84'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	189.52'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	190.51'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.10 cfs @ 20.65 hrs HW=189.34' (Free Discharge)
- **1=Culvert** (Passes 0.10 cfs of 8.25 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.10 cfs @ 3.03 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-47: Basin #47



Stage-Discharge for Pond B-47: Basin #47

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
188.30	0.00	188.82	0.00	189.34	0.10	189.86	2.71
188.31	0.00	188.83	0.00	189.35	0.10	189.87	2.82
188.32	0.00	188.84	0.00	189.36	0.11	189.88	2.93
188.33	0.00	188.85	0.00	189.37	0.11	189.89	3.05
188.34	0.00	188.86	0.00	189.38	0.11	189.90	3.17
188.35	0.00	188.87	0.00	189.39	0.11	189.91	3.28
188.36	0.00	188.88	0.00	189.40	0.11	189.92	3.40
188.37	0.00	188.89	0.00	189.41	0.11	189.93	3.53
188.38	0.00	188.90	0.01	189.42	0.11	189.94	3.65
188.39	0.00	188.91	0.01	189.43	0.11	189.95	3.77
188.40	0.00	188.92	0.01	189.44	0.12	189.96	3.90
188.41	0.00	188.93	0.01	189.45	0.12	189.97	4.03
188.42	0.00	188.94	0.02	189.46	0.12	189.98	4.15
188.43	0.00	188.95	0.02	189.47	0.12	189.99	4.28
188.44	0.00	188.96	0.02	189.48	0.12	190.00	4.41
188.45	0.00	188.97	0.03	189.49	0.12	190.01	4.55
188.46	0.00	188.98	0.03	189.50	0.12	190.02	4.68
188.47	0.00	188.99	0.03	189.51	0.12	190.03	4.81
188.48	0.00	189.00	0.04	189.52	0.12	190.04	4.95
188.49	0.00	189.01	0.04	189.53	0.14	190.05	5.09
188.50	0.00	189.02	0.05	189.54	0.16	190.06	5.22
188.51	0.00	189.03	0.05	189.55	0.20	190.07	5.36
188.52	0.00	189.04	0.05	189.56	0.23	190.08	5.50
188.53	0.00	189.05	0.05	189.57	0.28	190.09	5.64
188.54	0.00	189.06	0.06	189.58	0.32	190.10	5.79
188.55	0.00	189.07	0.06	189.59	0.37	190.11	5.93
188.56	0.00	189.08	0.06	189.60	0.43	190.12	6.07
188.57	0.00	189.09	0.06	189.61	0.49	190.13	6.22
188.58	0.00	189.10	0.06	189.62	0.55	190.14	6.37
188.59	0.00	189.11	0.07	189.63	0.61	190.15	6.51
188.60	0.00	189.12	0.07	189.64	0.68	190.16	6.66
188.61	0.00	189.13	0.07	189.65	0.75	190.17	6.81
188.62	0.00	189.14	0.07	189.66	0.82	190.18	6.96
188.63	0.00	189.15	0.07	189.67	0.89	190.19	7.12
188.64	0.00	189.16	0.08	189.68	0.97	190.20	7.27
188.65	0.00	189.17	0.08	189.69	1.05	190.21	7.42
188.66	0.00	189.18	0.08	189.70	1.13	190.22	7.58
188.67	0.00	189.19	0.08	189.71	1.22	190.23	7.73
188.68	0.00	189.20	0.08	189.72	1.30	190.24	7.89
188.69	0.00	189.21	0.08	189.73	1.39	190.25	8.05
188.70	0.00	189.22	0.09	189.74	1.48	190.26	8.21
188.71	0.00	189.23	0.09	189.75	1.57	190.27	8.37
188.72	0.00	189.24	0.09	189.76	1.67	190.28	8.53
188.73	0.00	189.25	0.09	189.77	1.76	190.29	8.69
188.74	0.00	189.26	0.09	189.78	1.86	190.30	8.85
188.75	0.00	189.27	0.09	189.79	1.96	190.31	9.01
188.76	0.00	189.28	0.10	189.80	2.06	190.32	9.18
188.77	0.00	189.29	0.10	189.81	2.17	190.33	9.34
188.78	0.00	189.30	0.10	189.82	2.27	190.34	9.51
188.79	0.00	189.31	0.10	189.83	2.38	190.35	9.67
188.80	0.00	189.32	0.10	189.84	2.49	190.36	9.84
188.81	0.00	189.33	0.10	189.85	2.59	190.37	10.01

Stage-Discharge for Pond B-47: Basin #47 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.38	10.18	190.90	44.37	191.42	136.19	191.94	258.14
190.39	10.35	190.91	45.71	191.43	138.28	191.95	260.82
190.40	10.52	190.92	47.10	191.44	140.38	191.96	263.51
190.41	10.69	190.93	48.52	191.45	142.49	191.97	266.20
190.42	10.86	190.94	49.97	191.46	144.62	191.98	268.91
190.43	11.04	190.95	51.44	191.47	146.76	191.99	271.64
190.44	11.21	190.96	52.93	191.48	148.91	192.00	**274.37**
190.45	11.39	190.97	54.46	191.49	151.07		
190.46	11.56	190.98	56.01	191.50	153.25		
190.47	11.74	190.99	57.58	191.51	155.44		
190.48	11.92	191.00	59.18	191.52	157.59		
190.49	12.09	191.01	60.81	191.53	159.74		
190.50	12.27	191.02	62.47	191.54	161.91		
190.51	12.36	191.03	64.15	191.55	164.09		
190.52	12.51	191.04	65.85	191.56	166.28		
190.53	12.75	191.05	67.59	191.57	168.49		
190.54	13.06	191.06	69.35	191.58	170.70		
190.55	13.41	191.07	71.14	191.59	172.92		
190.56	13.82	191.08	72.95	191.60	175.15		
190.57	14.26	191.09	74.79	191.61	177.39		
190.58	14.74	191.10	76.66	191.62	179.65		
190.59	15.25	191.11	78.56	191.63	181.91		
190.60	15.79	191.12	80.21	191.64	184.18		
190.61	16.37	191.13	81.88	191.65	186.47		
190.62	16.97	191.14	83.55	191.66	188.76		
190.63	17.60	191.15	85.25	191.67	191.07		
190.64	18.25	191.16	86.95	191.68	193.38		
190.65	18.93	191.17	88.67	191.69	195.71		
190.66	19.64	191.18	90.41	191.70	198.04		
190.67	20.37	191.19	92.15	191.71	200.38		
190.68	21.12	191.20	93.91	191.72	202.77		
190.69	21.89	191.21	95.68	191.73	205.17		
190.70	22.68	191.22	97.47	191.74	207.58		
190.71	23.50	191.23	99.26	191.75	210.01		
190.72	24.37	191.24	101.07	191.76	212.44		
190.73	25.27	191.25	102.89	191.77	214.88		
190.74	26.20	191.26	104.73	191.78	217.33		
190.75	27.15	191.27	106.57	191.79	219.80		
190.76	28.12	191.28	108.43	191.80	222.27		
190.77	29.13	191.29	110.30	191.81	224.76		
190.78	30.15	191.30	112.18	191.82	227.25		
190.79	31.20	191.31	114.08	191.83	229.76		
190.80	32.28	191.32	116.02	191.84	232.27		
190.81	33.38	191.33	117.98	191.85	234.80		
190.82	34.50	191.34	119.95	191.86	237.34		
190.83	35.65	191.35	121.94	191.87	239.88		
190.84	36.82	191.36	123.93	191.88	242.44		
190.85	38.02	191.37	125.94	191.89	245.01		
190.86	39.24	191.38	127.97	191.90	247.59		
190.87	40.49	191.39	130.00	191.91	250.18		
190.88	41.76	191.40	132.05	191.92	252.82		
190.89	43.05	191.41	134.12	191.93	255.48		

Stage-Area-Storage for Pond B-47: Basin #47

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
188.30	0	0	188.82	15,836	4,117
188.31	305	2	188.83	16,141	4,277
188.32	609	6	188.84	16,445	4,440
188.33	914	14	188.85	16,750	4,606
188.34	1,218	24	188.86	17,054	4,775
188.35	1,523	38	188.87	17,359	4,947
188.36	1,827	55	188.88	17,663	5,122
188.37	2,132	75	188.89	17,968	5,301
188.38	2,436	97	188.90	18,273	5,482
188.39	2,741	123	188.91	18,577	5,666
188.40	3,045	152	188.92	18,882	5,853
188.41	3,350	184	188.93	19,186	6,044
188.42	3,655	219	188.94	19,491	6,237
188.43	3,959	257	188.95	19,795	6,433
188.44	4,264	298	188.96	20,100	6,633
188.45	4,568	343	188.97	20,404	6,835
188.46	4,873	390	188.98	20,709	7,041
188.47	5,177	440	188.99	21,013	7,250
188.48	5,482	493	189.00	21,318	7,461
188.49	5,786	550	189.01	21,337	7,675
188.50	6,091	609	189.02	21,357	7,888
188.51	6,395	672	189.03	21,376	8,102
188.52	6,700	737	189.04	21,395	8,316
188.53	7,004	806	189.05	21,415	8,530
188.54	7,309	877	189.06	21,434	8,744
188.55	7,614	952	189.07	21,453	8,958
188.56	7,918	1,029	189.08	21,473	9,173
188.57	8,223	1,110	189.09	21,492	9,388
188.58	8,527	1,194	189.10	21,511	9,603
188.59	8,832	1,281	189.11	21,531	9,818
188.60	9,136	1,370	189.12	21,550	10,033
188.61	9,441	1,463	189.13	21,569	10,249
188.62	9,745	1,559	189.14	21,589	10,465
188.63	10,050	1,658	189.15	21,608	10,681
188.64	10,354	1,760	189.16	21,627	10,897
188.65	10,659	1,865	189.17	21,647	11,113
188.66	10,964	1,973	189.18	21,666	11,330
188.67	11,268	2,085	189.19	21,685	11,547
188.68	11,573	2,199	189.20	21,705	11,764
188.69	11,877	2,316	189.21	21,724	11,981
188.70	12,182	2,436	189.22	21,743	12,198
188.71	12,486	2,560	189.23	21,763	12,416
188.72	12,791	2,686	189.24	21,782	12,633
188.73	13,095	2,815	189.25	21,802	12,851
188.74	13,400	2,948	189.26	21,821	13,069
188.75	13,704	3,083	189.27	21,840	13,288
188.76	14,009	3,222	189.28	21,860	13,506
188.77	14,314	3,364	189.29	21,879	13,725
188.78	14,618	3,508	189.30	21,898	13,944
188.79	14,923	3,656	189.31	21,918	14,163
188.80	15,227	3,807	189.32	21,937	14,382
188.81	15,532	3,961	189.33	21,956	14,602

Stage-Area-Storage for Pond B-47: Basin #47 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
189.34	21,976	14,821	189.86	22,981	26,510
189.35	21,995	15,041	189.87	23,001	26,740
189.36	22,014	15,261	189.88	23,020	26,970
189.37	22,034	15,481	189.89	23,039	27,200
189.38	22,053	15,702	189.90	23,059	27,431
189.39	22,072	15,922	189.91	23,078	27,661
189.40	22,092	16,143	189.92	23,097	27,892
189.41	22,111	16,364	189.93	23,117	28,123
189.42	22,130	16,585	189.94	23,136	28,355
189.43	22,150	16,807	189.95	23,155	28,586
189.44	22,169	17,028	189.96	23,175	28,818
189.45	22,188	17,250	189.97	23,194	29,050
189.46	22,208	17,472	189.98	23,213	29,282
189.47	22,227	17,694	189.99	23,233	29,514
189.48	22,246	17,917	190.00	23,252	29,746
189.49	22,266	18,139	190.01	23,272	29,979
189.50	22,285	18,362	190.02	23,292	30,212
189.51	22,304	18,585	190.03	23,312	30,445
189.52	22,324	18,808	190.04	23,332	30,678
189.53	22,343	19,031	190.05	23,352	30,911
189.54	22,362	19,255	190.06	23,371	31,145
189.55	22,382	19,479	190.07	23,391	31,379
189.56	22,401	19,703	190.08	23,411	31,613
189.57	22,420	19,927	190.09	23,431	31,847
189.58	22,440	20,151	190.10	23,451	32,081
189.59	22,459	20,376	190.11	23,471	32,316
189.60	22,478	20,600	190.12	23,491	32,551
189.61	22,498	20,825	190.13	23,511	32,786
189.62	22,517	21,050	190.14	23,531	33,021
189.63	22,536	21,275	190.15	23,551	33,256
189.64	22,556	21,501	190.16	23,570	33,492
189.65	22,575	21,727	190.17	23,590	33,728
189.66	22,594	21,952	190.18	23,610	33,964
189.67	22,614	22,178	190.19	23,630	34,200
189.68	22,633	22,405	190.20	23,650	34,437
189.69	22,652	22,631	190.21	23,670	34,673
189.70	22,672	22,858	190.22	23,690	34,910
189.71	22,691	23,085	190.23	23,710	35,147
189.72	22,710	23,312	190.24	23,730	35,384
189.73	22,730	23,539	190.25	23,750	35,621
189.74	22,749	23,766	190.26	23,769	35,859
189.75	22,769	23,994	190.27	23,789	36,097
189.76	22,788	24,222	190.28	23,809	36,335
189.77	22,807	24,449	190.29	23,829	36,573
189.78	22,827	24,678	190.30	23,849	36,811
189.79	22,846	24,906	190.31	23,869	37,050
189.80	22,865	25,135	190.32	23,889	37,289
189.81	22,885	25,363	190.33	23,909	37,528
189.82	22,904	25,592	190.34	23,929	37,767
189.83	22,923	25,821	190.35	23,949	38,006
189.84	22,943	26,051	190.36	23,968	38,246
189.85	22,962	26,280	190.37	23,988	38,486

Stage-Area-Storage for Pond B-47: Basin #47 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.38	24,008	38,726	190.90	25,043	51,479
190.39	24,028	38,966	190.91	25,063	51,730
190.40	24,048	39,206	190.92	25,083	51,980
190.41	24,068	39,447	190.93	25,103	52,231
190.42	24,088	39,688	190.94	25,123	52,482
190.43	24,108	39,929	190.95	25,143	52,734
190.44	24,128	40,170	190.96	25,162	52,985
190.45	24,148	40,411	190.97	25,182	53,237
190.46	24,167	40,653	190.98	25,202	53,489
190.47	24,187	40,895	190.99	25,222	53,741
190.48	24,207	41,137	191.00	25,242	53,993
190.49	24,227	41,379	191.01	25,263	54,246
190.50	24,247	41,621	191.02	25,285	54,499
190.51	24,267	41,864	191.03	25,306	54,752
190.52	24,287	42,106	191.04	25,328	55,005
190.53	24,307	42,349	191.05	25,349	55,258
190.54	24,327	42,593	191.06	25,370	55,512
190.55	24,347	42,836	191.07	25,392	55,765
190.56	24,366	43,079	191.08	25,413	56,020
190.57	24,386	43,323	191.09	25,435	56,274
190.58	24,406	43,567	191.10	25,456	56,528
190.59	24,426	43,811	191.11	25,477	56,783
190.60	24,446	44,056	191.12	25,499	57,038
190.61	24,466	44,300	191.13	25,520	57,293
190.62	24,486	44,545	191.14	25,542	57,548
190.63	24,506	44,790	191.15	25,563	57,804
190.64	24,526	45,035	191.16	25,584	58,059
190.65	24,546	45,280	191.17	25,606	58,315
190.66	24,565	45,526	191.18	25,627	58,572
190.67	24,585	45,772	191.19	25,649	58,828
190.68	24,605	46,018	191.20	25,670	59,085
190.69	24,625	46,264	191.21	25,691	59,341
190.70	24,645	46,510	191.22	25,713	59,598
190.71	24,665	46,757	191.23	25,734	59,856
190.72	24,685	47,004	191.24	25,756	60,113
190.73	24,705	47,250	191.25	25,777	60,371
190.74	24,725	47,498	191.26	25,798	60,629
190.75	24,745	47,745	191.27	25,820	60,887
190.76	24,764	47,993	191.28	25,841	61,145
190.77	24,784	48,240	191.29	25,863	61,403
190.78	24,804	48,488	191.30	25,884	61,662
190.79	24,824	48,736	191.31	25,905	61,921
190.80	24,844	48,985	191.32	25,927	62,180
190.81	24,864	49,233	191.33	25,948	62,440
190.82	24,884	49,482	191.34	25,970	62,699
190.83	24,904	49,731	191.35	25,991	62,959
190.84	24,924	49,980	191.36	26,012	63,219
190.85	24,944	50,229	191.37	26,034	63,479
190.86	24,963	50,479	191.38	26,055	63,740
190.87	24,983	50,729	191.39	26,077	64,000
190.88	25,003	50,979	191.40	26,098	64,261
190.89	25,023	51,229	191.41	26,119	64,522

Stage-Area-Storage for Pond B-47: Basin #47 (continued)

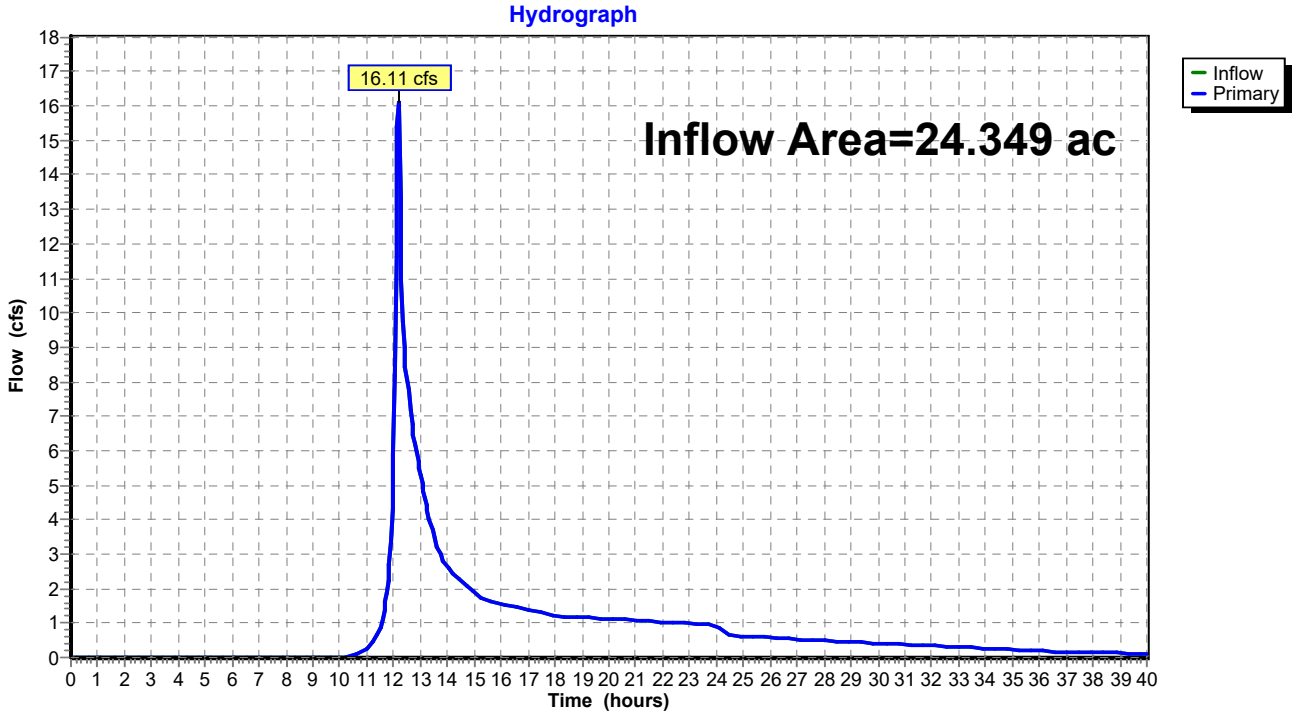
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.42	26,141	64,784
191.43	26,162	65,045
191.44	26,184	65,307
191.45	26,205	65,569
191.46	26,226	65,831
191.47	26,248	66,093
191.48	26,269	66,356
191.49	26,291	66,619
191.50	26,312	66,882
191.51	26,333	67,145
191.52	26,355	67,408
191.53	26,376	67,672
191.54	26,398	67,936
191.55	26,419	68,200
191.56	26,440	68,464
191.57	26,462	68,729
191.58	26,483	68,994
191.59	26,505	69,259
191.60	26,526	69,524
191.61	26,547	69,789
191.62	26,569	70,055
191.63	26,590	70,320
191.64	26,612	70,586
191.65	26,633	70,853
191.66	26,654	71,119
191.67	26,676	71,386
191.68	26,697	71,653
191.69	26,719	71,920
191.70	26,740	72,187
191.71	26,761	72,455
191.72	26,783	72,722
191.73	26,804	72,990
191.74	26,826	73,258
191.75	26,847	73,527
191.76	26,868	73,795
191.77	26,890	74,064
191.78	26,911	74,333
191.79	26,933	74,602
191.80	26,954	74,872
191.81	26,975	75,141
191.82	26,997	75,411
191.83	27,018	75,681
191.84	27,040	75,952
191.85	27,061	76,222
191.86	27,082	76,493
191.87	27,104	76,764
191.88	27,125	77,035
191.89	27,147	77,306
191.90	27,168	77,578
191.91	27,189	77,850
191.92	27,211	78,122
191.93	27,232	78,394
191.94	27,254	78,666
191.95	27,275	78,939
191.96	27,296	79,212
191.97	27,318	79,485
191.98	27,339	79,758
191.99	27,361	80,032
192.00	**27,382**	**80,305**

Summary for Link PDA-4: Proposed Drainage Area #4

Inflow Area = 24.349 ac, 23.20% Impervious, Inflow Depth > 1.33" for Future 2 yr event
Inflow = 16.11 cfs @ 12.18 hrs, Volume= 2.702 af
Primary = 16.11 cfs @ 12.18 hrs, Volume= 2.702 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-4: Proposed Drainage Area #4



Summary for Subcatchment 41I: PDA-41 (impervious)

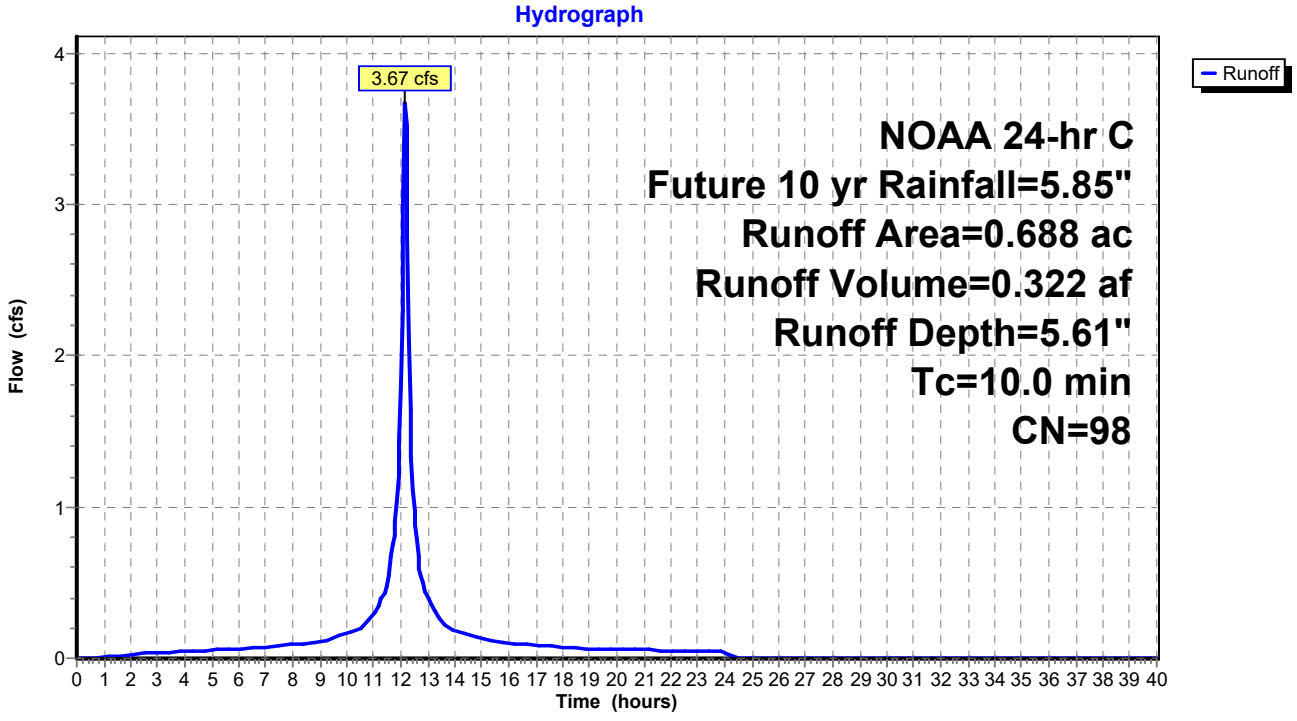
Runoff = 3.67 cfs @ 12.17 hrs, Volume= 0.322 af, Depth= 5.61"
Routed to Pond B-41 : Basin #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.136	98	Pavement, HSG C
*	0.514	98	Roof, HSG C
*	0.038	98	Concrete, HSC C
	0.688	98	Weighted Average
	0.688		100.00% Impervious Area

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

Subcatchment 41I: PDA-41 (impervious)



Summary for Subcatchment 41P: PDA-41 (pervious)

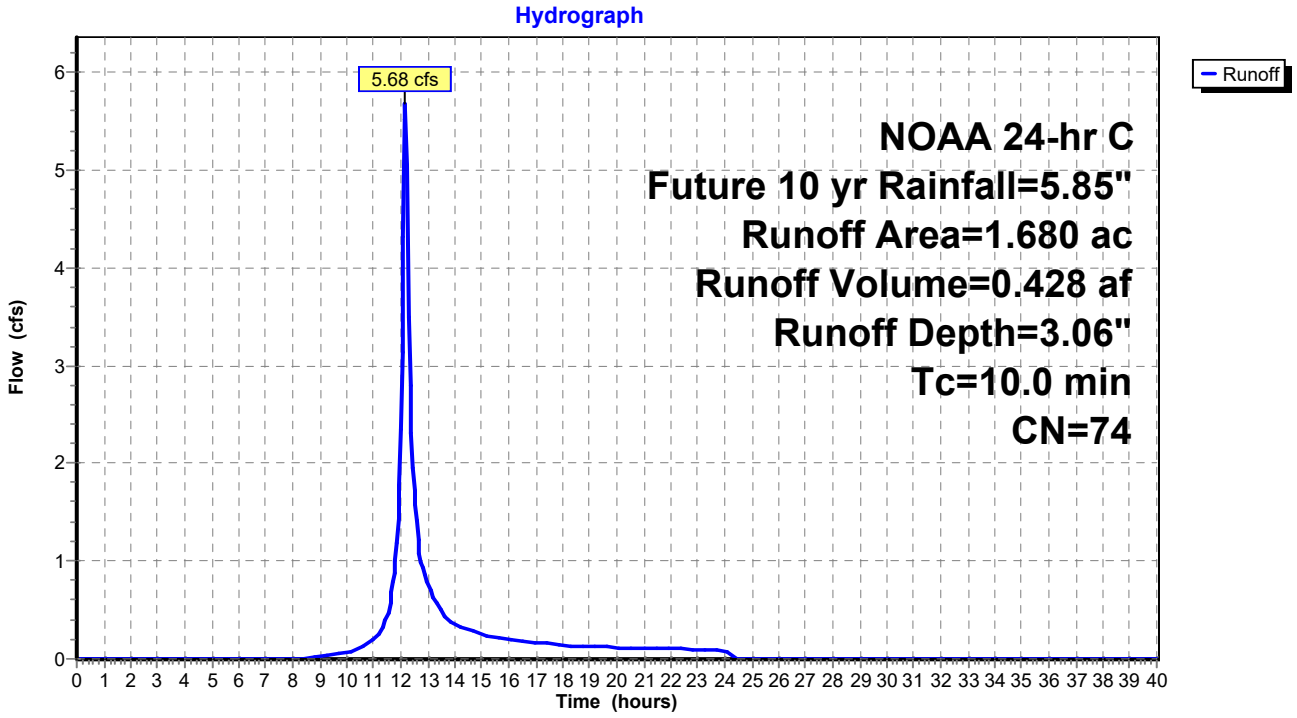
Runoff = 5.68 cfs @ 12.18 hrs, Volume= 0.428 af, Depth= 3.06"
Routed to Pond B-41 : Basin #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.680	74	>75% Grass cover, Good, HSG C
1.680		100.00% Pervious Area

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

Subcatchment 41P: PDA-41 (pervious)



Summary for Subcatchment 42l: PDA-42 (impervious)

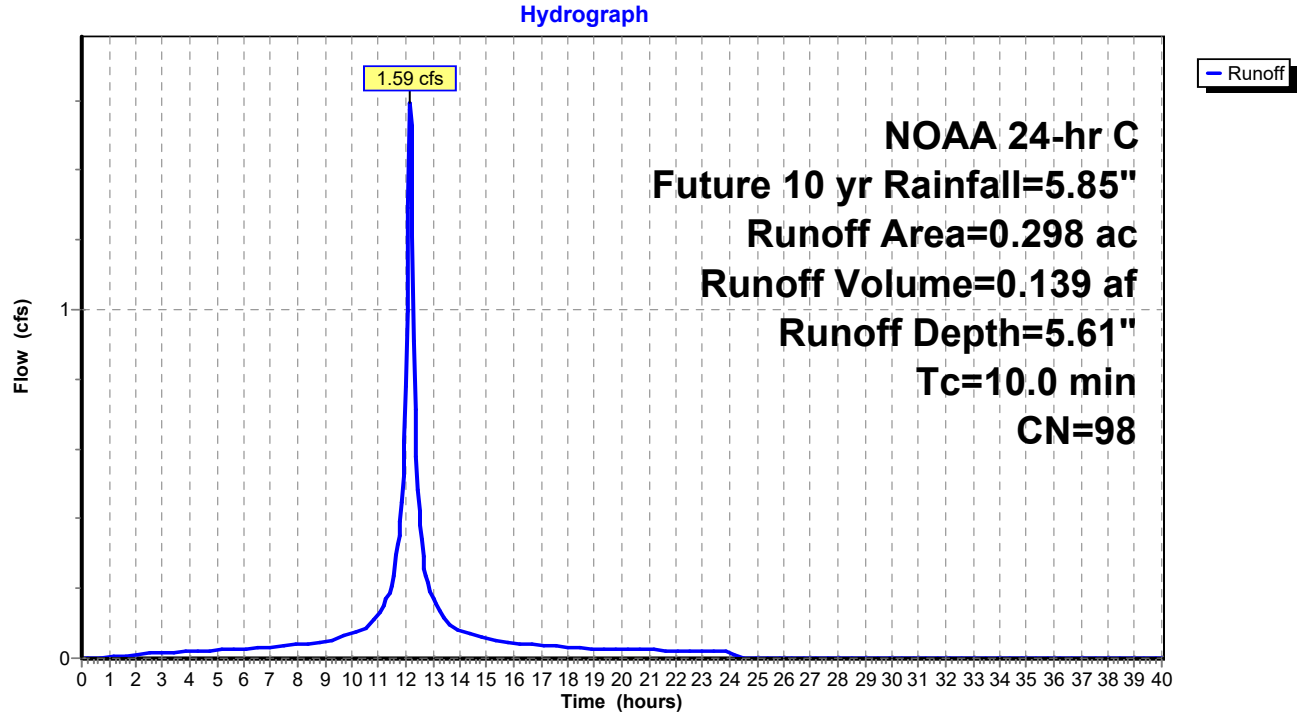
Runoff = 1.59 cfs @ 12.17 hrs, Volume= 0.139 af, Depth= 5.61"
Routed to Pond B-42 : Basin #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.000	98	Pavement, HSG C
*	0.298	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.298	98	Weighted Average
	0.298		100.00% Impervious Area

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

Subcatchment 42l: PDA-42 (impervious)



Summary for Subcatchment 42P: PDA-42 (pervious)

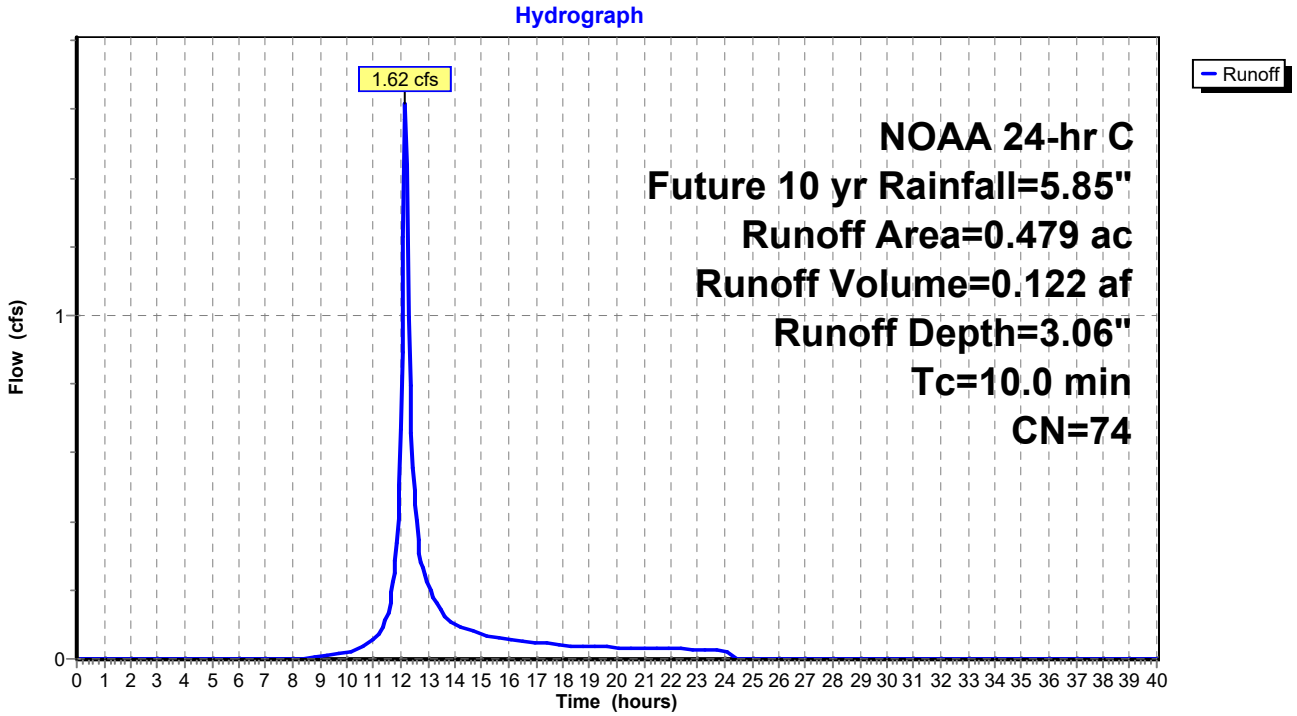
Runoff = 1.62 cfs @ 12.18 hrs, Volume= 0.122 af, Depth= 3.06"
Routed to Pond B-42 : Basin #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.479	74	>75% Grass cover, Good, HSG C
0.479		100.00% Pervious Area

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

Subcatchment 42P: PDA-42 (pervious)



Summary for Subcatchment 43I: PDA-43 (impervious)

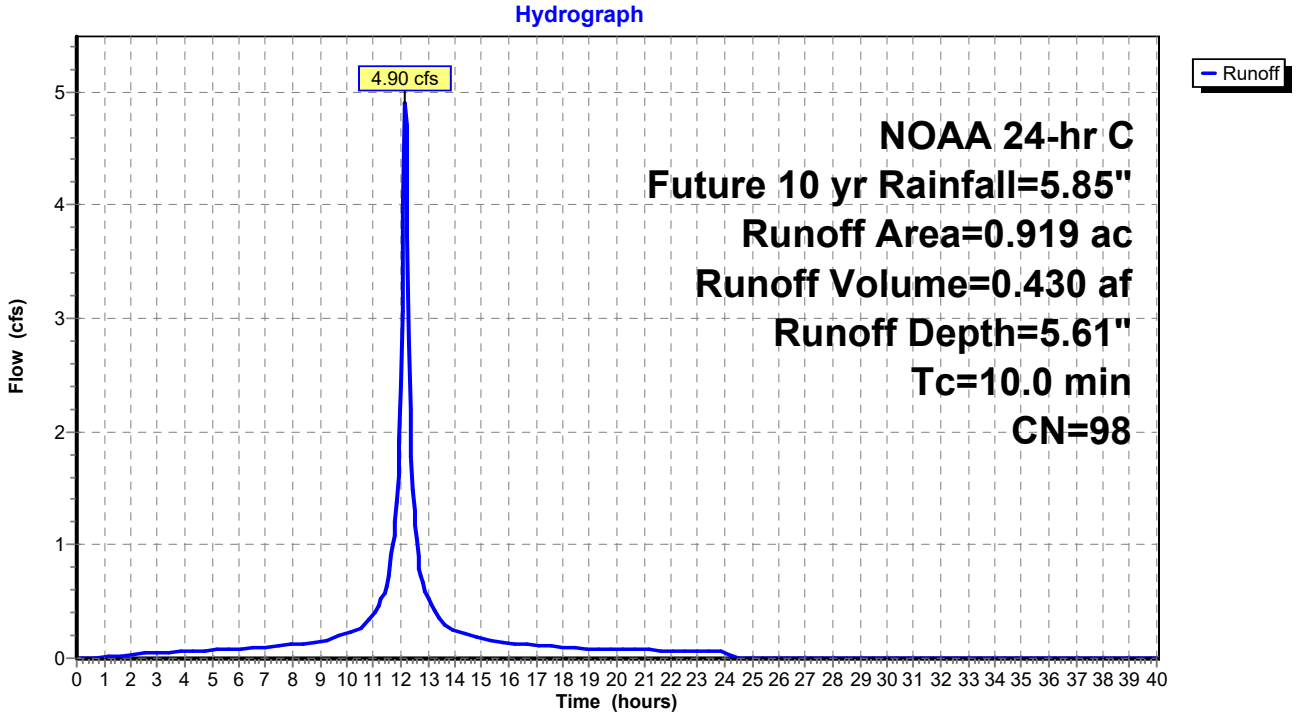
Runoff = 4.90 cfs @ 12.17 hrs, Volume= 0.430 af, Depth= 5.61"
Routed to Pond B-43 : Basin #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.326	98	Pavement, HSG C
*	0.522	98	Roof, HSG C
*	0.071	98	Concrete, HSC C
	0.919	98	Weighted Average
	0.919		100.00% Impervious Area

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

Subcatchment 43I: PDA-43 (impervious)



Summary for Subcatchment 43P: PDA-43 (pervious)

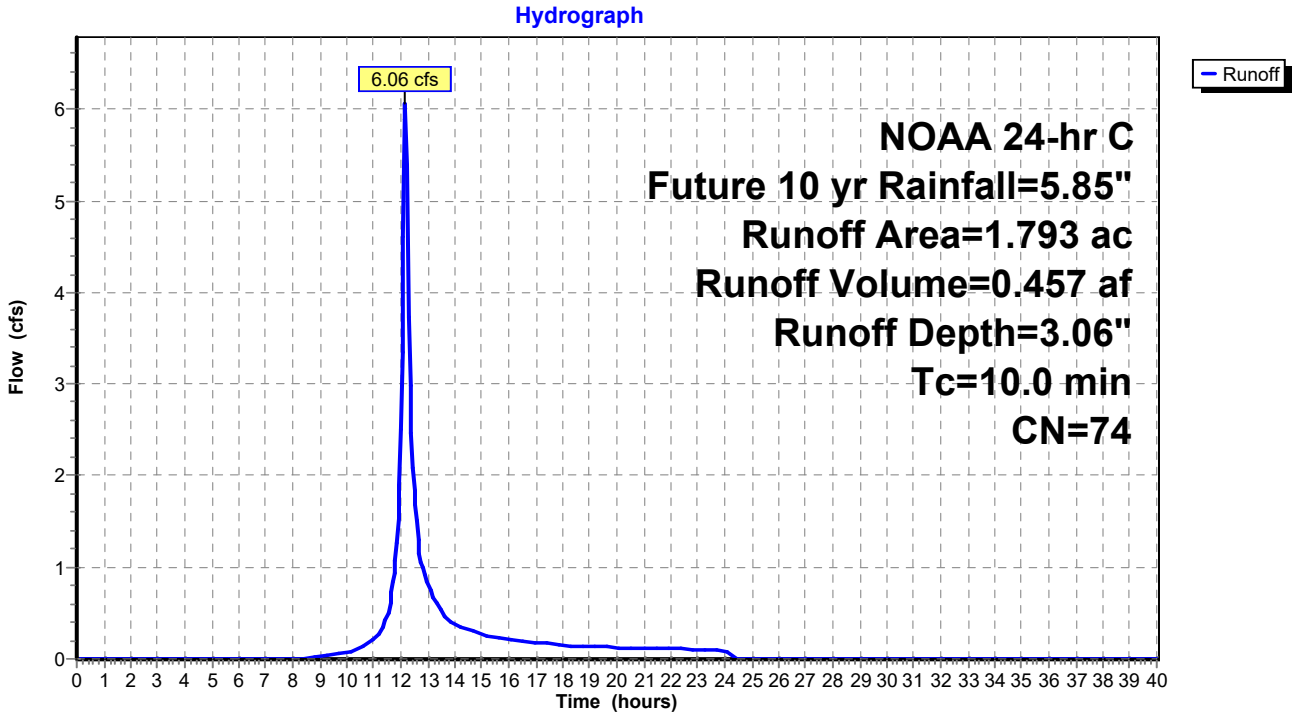
Runoff = 6.06 cfs @ 12.18 hrs, Volume= 0.457 af, Depth= 3.06"
Routed to Pond B-43 : Basin #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.793	74	>75% Grass cover, Good, HSG C
1.793		100.00% Pervious Area

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

Subcatchment 43P: PDA-43 (pervious)



Summary for Subcatchment 44l: PDA-44 (impervious)

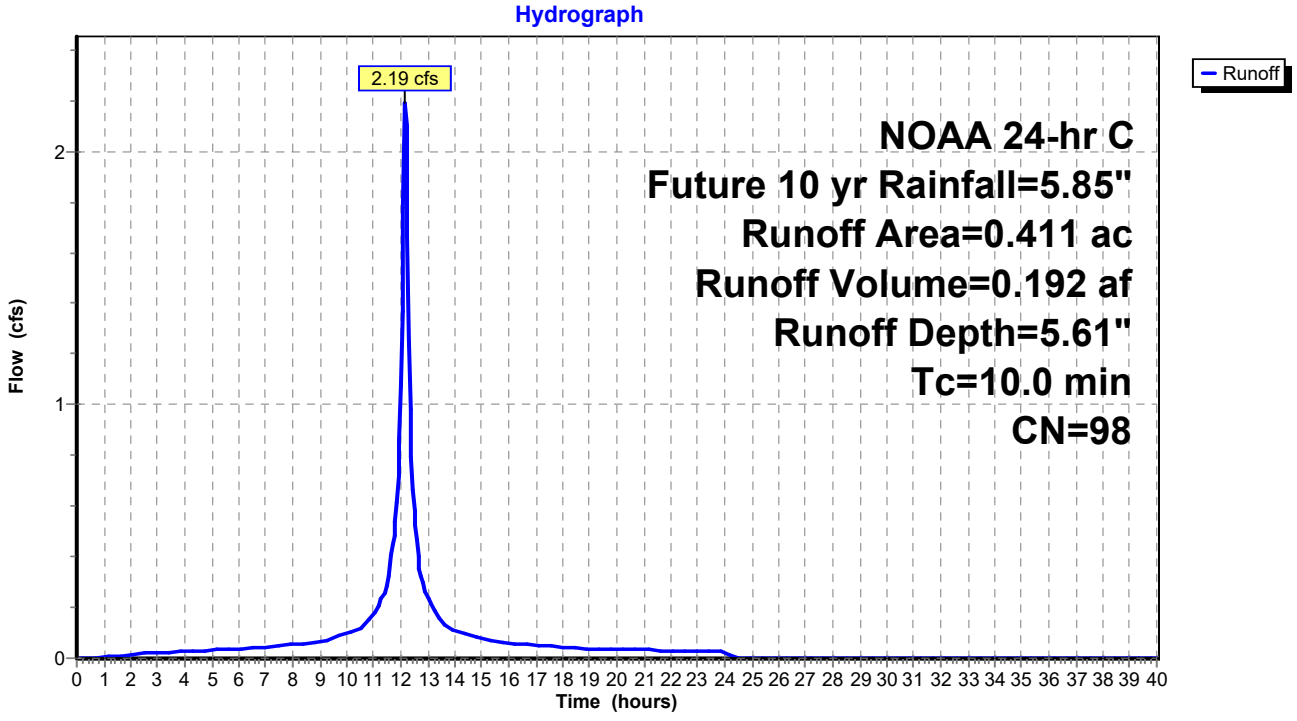
Runoff = 2.19 cfs @ 12.17 hrs, Volume= 0.192 af, Depth= 5.61"
Routed to Pond B-44 : Basin #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.283	98	Pavement, HSG C
*	0.104	98	Roof, HSG C
*	0.024	98	Concrete, HSC C
	0.411	98	Weighted Average
	0.411		100.00% Impervious Area

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

Subcatchment 44l: PDA-44 (impervious)



Summary for Subcatchment 44P: PDA-44 (pervious)

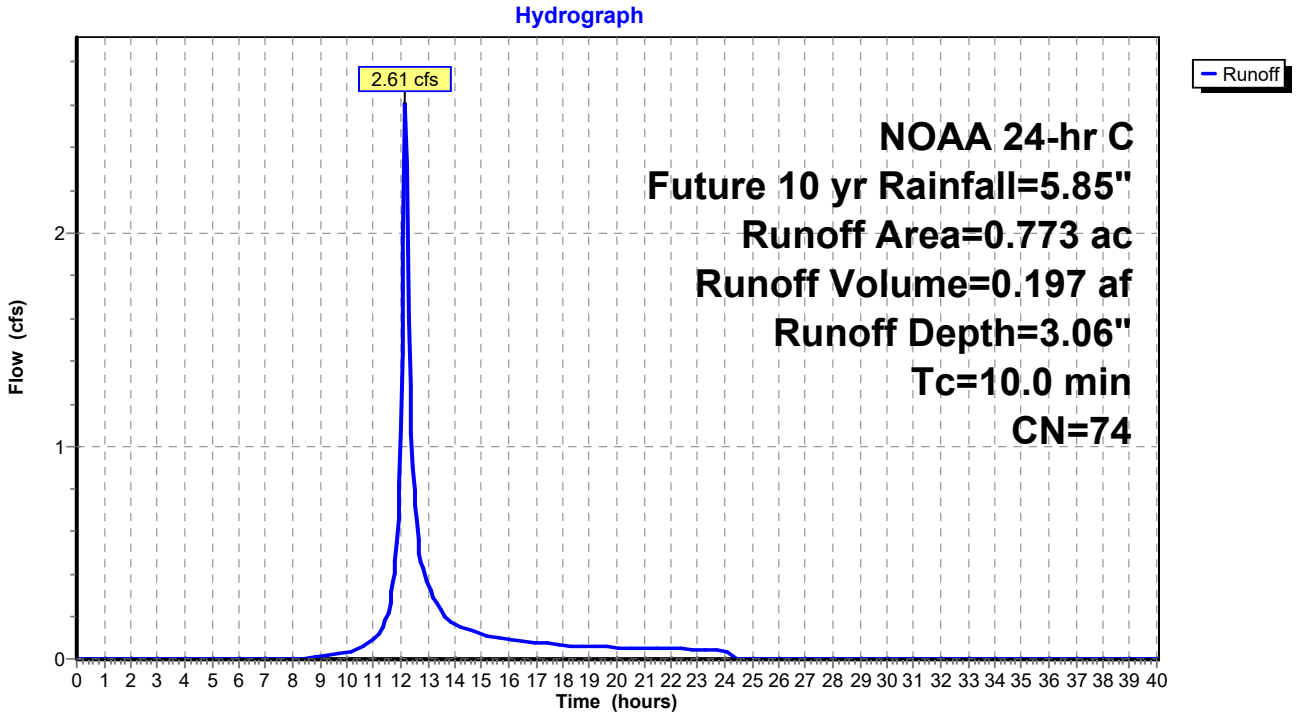
Runoff = 2.61 cfs @ 12.18 hrs, Volume= 0.197 af, Depth= 3.06"
Routed to Pond B-44 : Basin #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.773	74	>75% Grass cover, Good, HSG C
0.773		100.00% Pervious Area

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

Subcatchment 44P: PDA-44 (pervious)



Summary for Subcatchment 45l: PDA-45 (impervious)

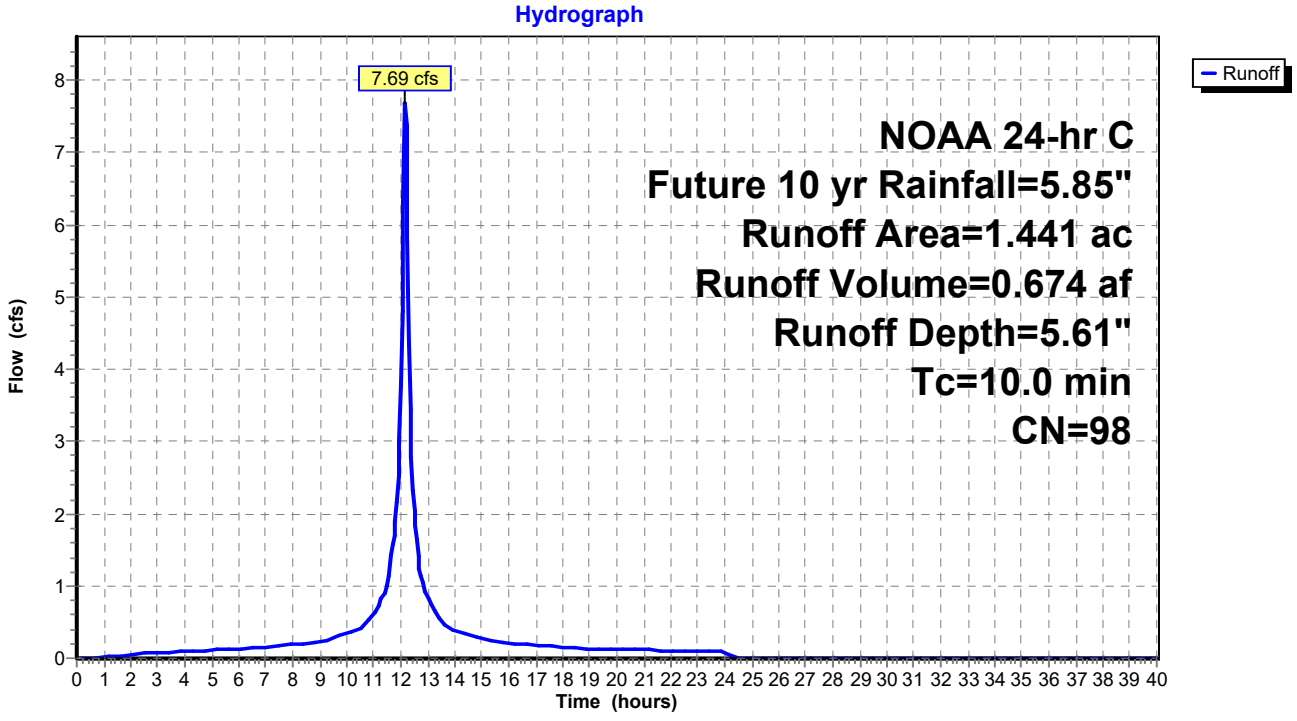
Runoff = 7.69 cfs @ 12.17 hrs, Volume= 0.674 af, Depth= 5.61"
Routed to Pond B-45 : Basin #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.394	98	Pavement, HSG C
*	1.045	98	Roof, HSG C
*	0.002	98	Concrete, HSG C
	1.441	98	Weighted Average
	1.441		100.00% Impervious Area

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

Subcatchment 45l: PDA-45 (impervious)



Summary for Subcatchment 45P: PDA-45 (pervious)

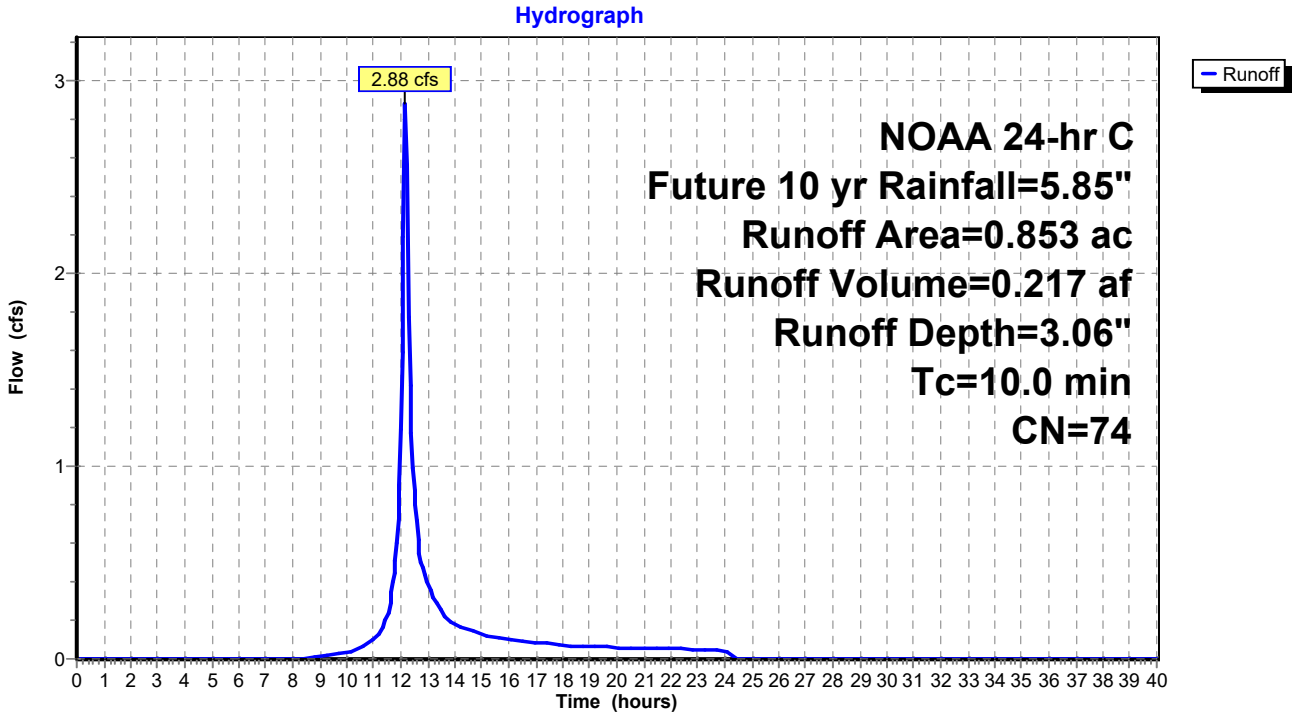
Runoff = 2.88 cfs @ 12.18 hrs, Volume= 0.217 af, Depth= 3.06"
Routed to Pond B-45 : Basin #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.853	74	>75% Grass cover, Good, HSG C
0.853		100.00% Pervious Area

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

Subcatchment 45P: PDA-45 (pervious)



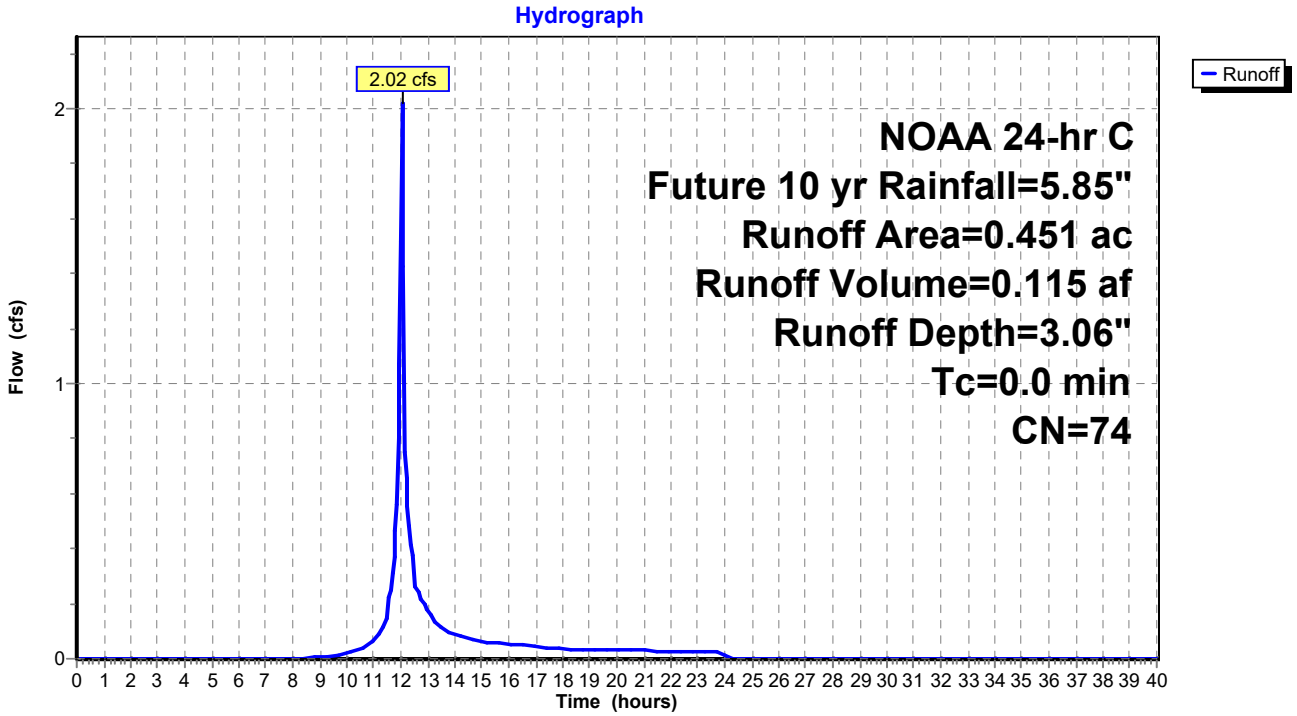
Summary for Subcatchment 46BP: PDA-46B (pervious)

Runoff = 2.02 cfs @ 12.05 hrs, Volume= 0.115 af, Depth= 3.06"
Routed to Pond B-46B : Basin #46B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.451	74	>75% Grass cover, Good, HSG C
0.451		100.00% Pervious Area

Subcatchment 46BP: PDA-46B (pervious)



Summary for Subcatchment 46I: PDA-46 (impervious)

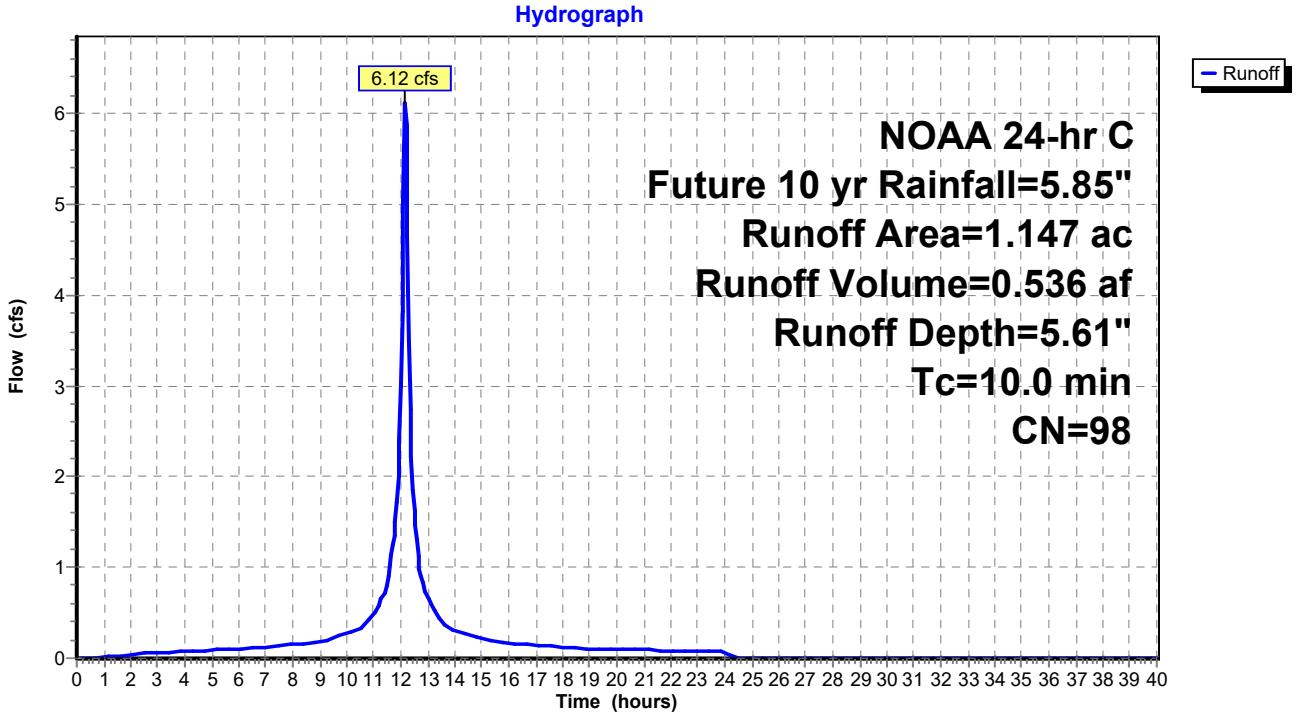
Runoff = 6.12 cfs @ 12.17 hrs, Volume= 0.536 af, Depth= 5.61"
Routed to Pond B-46A : Basin #46A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.430	98	Pavement, HSG C
*	0.653	98	Roof, HSG C
*	0.064	98	Concrete, HSG C
	1.147	98	Weighted Average
	1.147		100.00% Impervious Area

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

Subcatchment 46I: PDA-46 (impervious)



Summary for Subcatchment 46P: PDA-46 (pervious)

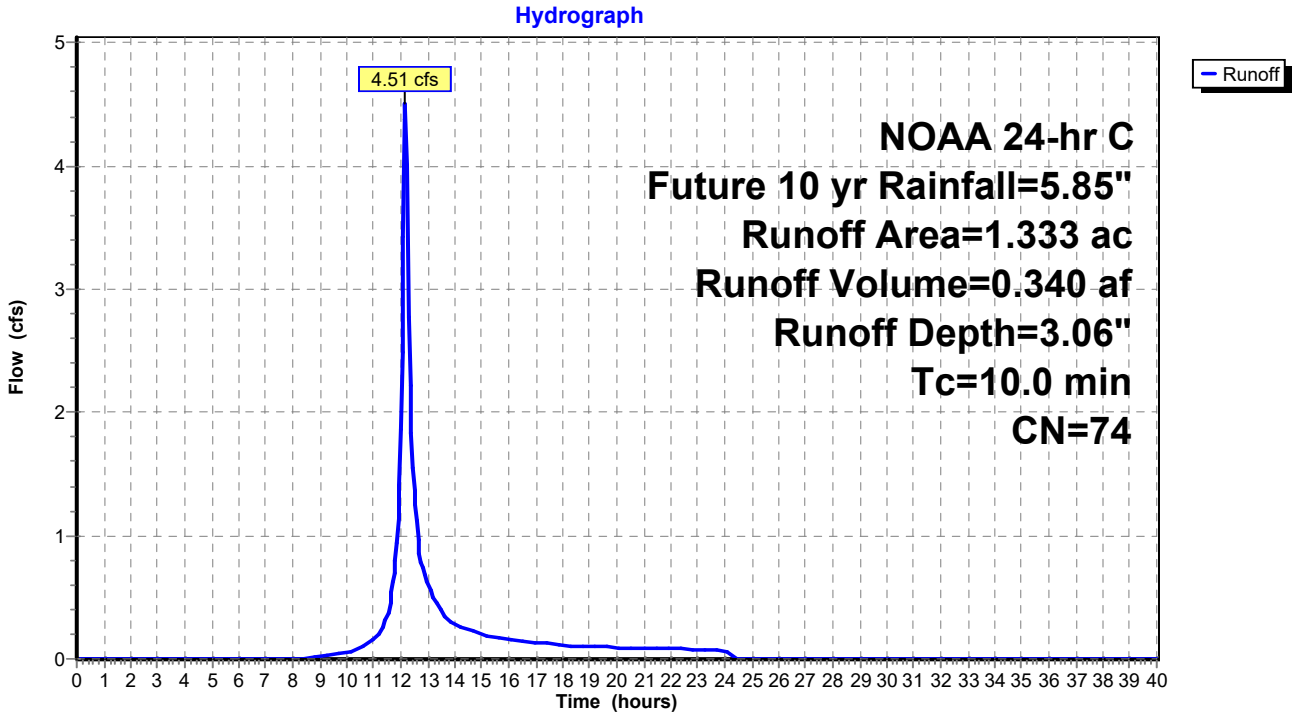
Runoff = 4.51 cfs @ 12.18 hrs, Volume= 0.340 af, Depth= 3.06"
Routed to Pond B-46A : Basin #46A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.333	74	>75% Grass cover, Good, HSG C
1.333		100.00% Pervious Area

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

Subcatchment 46P: PDA-46 (pervious)



Summary for Subcatchment 47I: PDA-47 (impervious)

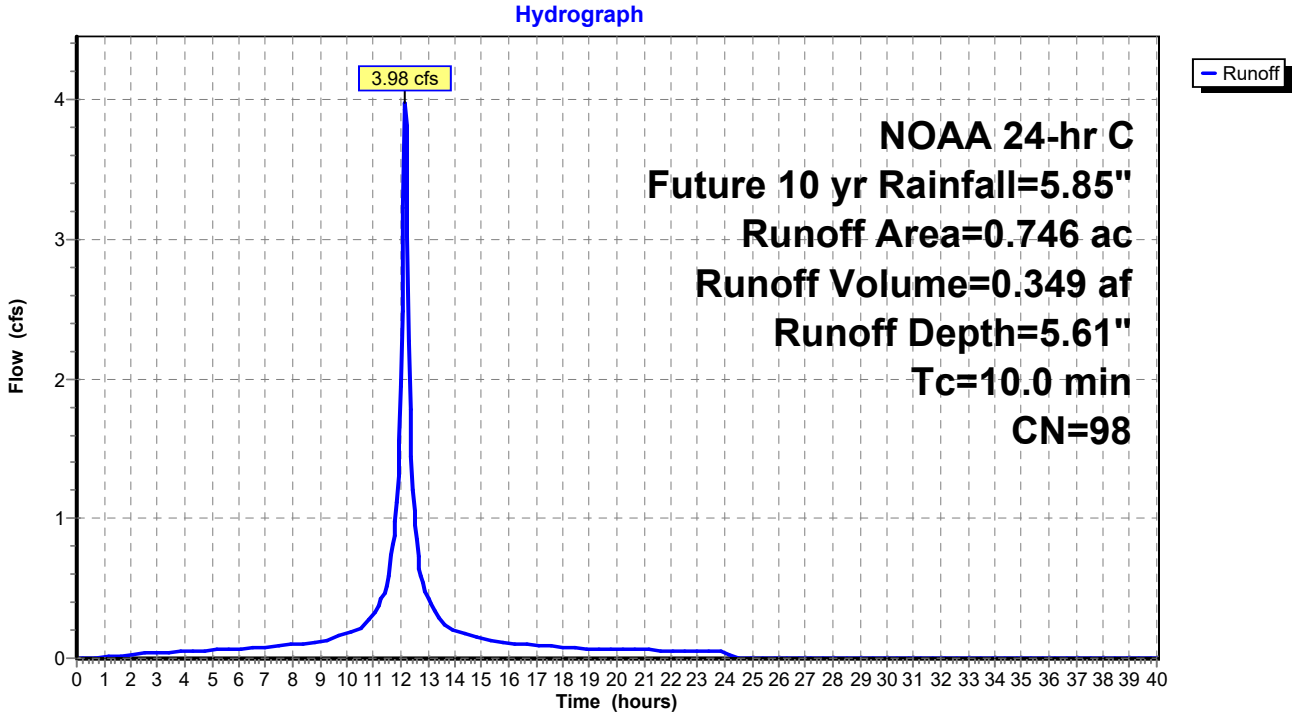
Runoff = 3.98 cfs @ 12.17 hrs, Volume= 0.349 af, Depth= 5.61"
Routed to Pond B-47 : Basin #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

	Area (ac)	CN	Description
*	0.244	98	Pavement, HSG C
*	0.484	98	Roof, HSG C
*	0.018	98	Concrete, HSG C
	0.746	98	Weighted Average
	0.746		100.00% Impervious Area

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

Subcatchment 47I: PDA-47 (impervious)



Summary for Subcatchment 47P: PDA-47 (pervious)

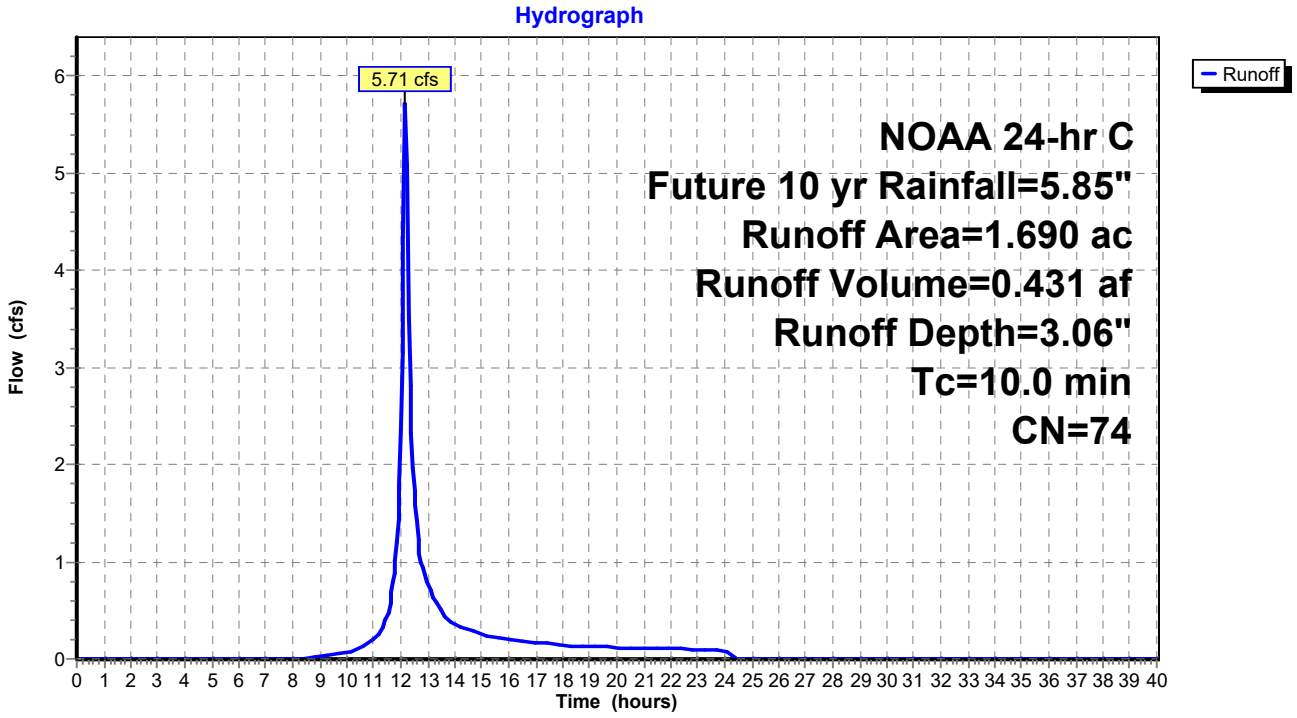
Runoff = 5.71 cfs @ 12.18 hrs, Volume= 0.431 af, Depth= 3.06"
Routed to Pond B-47 : Basin #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.690	74	>75% Grass cover, Good, HSG C
1.690		100.00% Pervious Area

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

Subcatchment 47P: PDA-47 (pervious)



Summary for Subcatchment UPDA-4: PDA-4 (undetained)

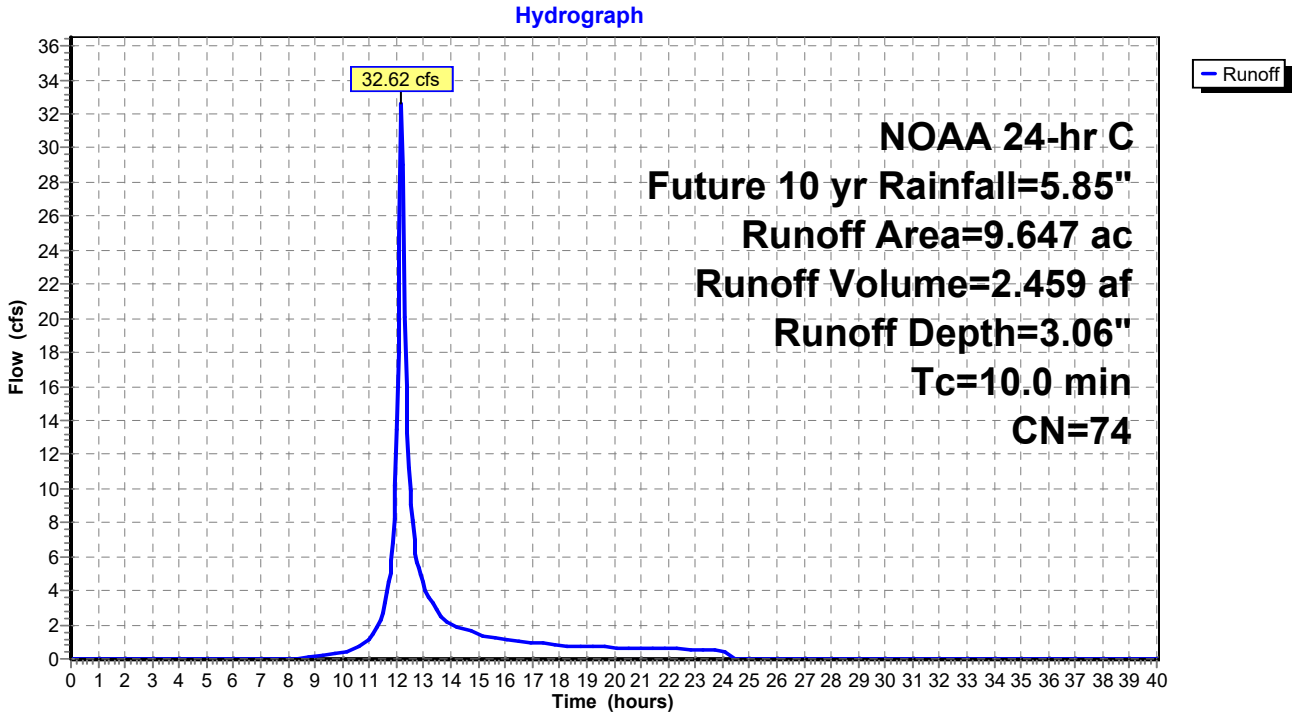
Runoff = 32.62 cfs @ 12.18 hrs, Volume= 2.459 af, Depth= 3.06"
Routed to Link PDA-4 : Proposed Drainage Area #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
9.647	74	>75% Grass cover, Good, HSG C
9.647		100.00% Pervious Area

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

Subcatchment UPDA-4: PDA-4 (undetained)



Summary for Pond B-41: Basin #41

Inflow Area = 2.368 ac, 29.05% Impervious, Inflow Depth = 3.80" for Future 10 yr event
Inflow = 9.36 cfs @ 12.17 hrs, Volume= 0.750 af
Outflow = 6.07 cfs @ 12.29 hrs, Volume= 0.690 af, Atten= 35%, Lag= 7.2 min
Primary = 6.07 cfs @ 12.29 hrs, Volume= 0.690 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 184.73' @ 12.29 hrs Surf.Area= 5,331 sf Storage= 12,525 cf

Plug-Flow detention time= 314.8 min calculated for 0.689 af (92% of inflow)
Center-of-Mass det. time= 272.6 min (1,072.2 - 799.7)

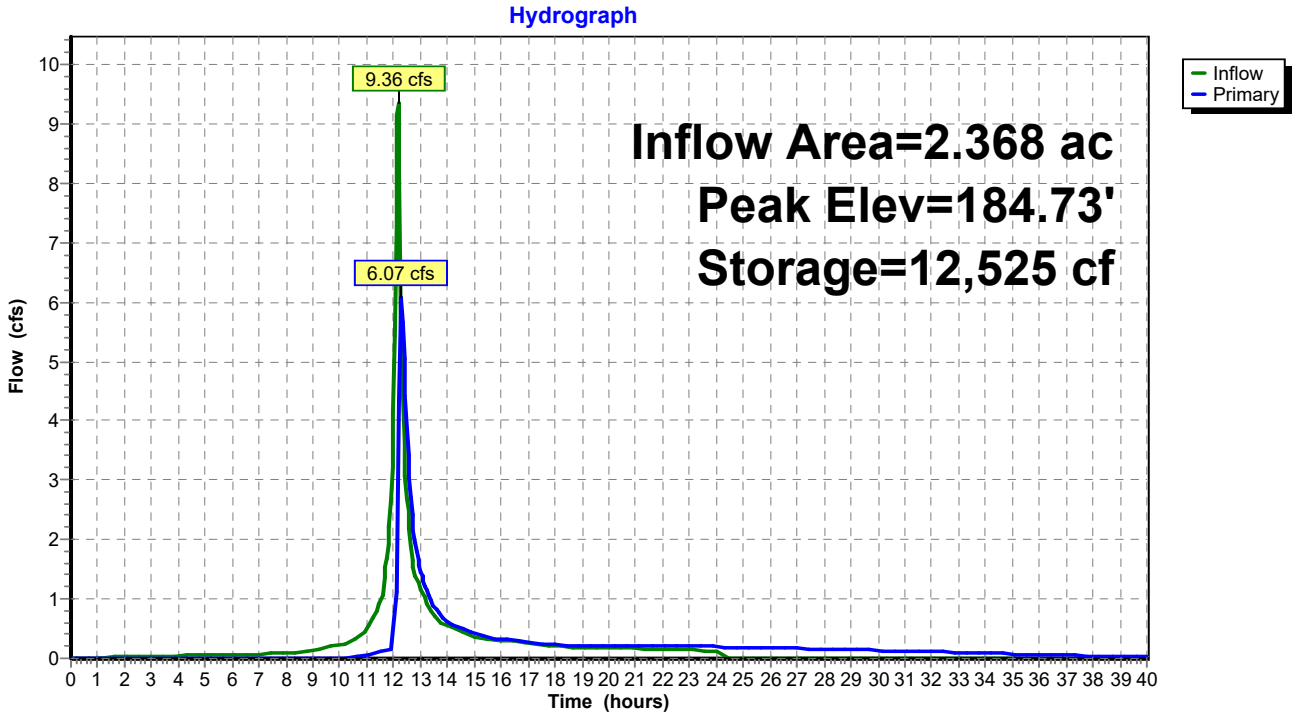
Volume	Invert	Avail.Storage	Storage Description
#1	181.85'	23,005 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
181.85	0	0	0
182.00	3,695	277	277
183.00	4,265	3,980	4,257
184.00	4,870	4,568	8,825
185.00	5,505	5,188	14,012
186.00	6,153	5,829	19,841
186.50	6,502	3,164	23,005

Device	Routing	Invert	Outlet Devices
#1	Primary	181.85'	**18.0" Round Culvert** L= 59.0' Ke= 0.500 Inlet / Outlet Invert= 181.85' / 181.55' S= 0.0051 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	182.50'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.13'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.39'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=6.04 cfs @ 12.29 hrs HW=184.72' (Free Discharge)
- **1=Culvert** (Passes 6.04 cfs of 11.42 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.24 cfs @ 7.01 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 5.80 cfs @ 2.52 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-41: Basin #41



Stage-Discharge for Pond B-41: Basin #41

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.85	0.00	182.37	0.00	182.89	0.09	183.41	0.15
181.86	0.00	182.38	0.00	182.90	0.09	183.42	0.15
181.87	0.00	182.39	0.00	182.91	0.09	183.43	0.15
181.88	0.00	182.40	0.00	182.92	0.09	183.44	0.15
181.89	0.00	182.41	0.00	182.93	0.09	183.45	0.15
181.90	0.00	182.42	0.00	182.94	0.10	183.46	0.15
181.91	0.00	182.43	0.00	182.95	0.10	183.47	0.15
181.92	0.00	182.44	0.00	182.96	0.10	183.48	0.15
181.93	0.00	182.45	0.00	182.97	0.10	183.49	0.15
181.94	0.00	182.46	0.00	182.98	0.10	183.50	0.16
181.95	0.00	182.47	0.00	182.99	0.10	183.51	0.16
181.96	0.00	182.48	0.00	183.00	0.10	183.52	0.16
181.97	0.00	182.49	0.00	183.01	0.10	183.53	0.16
181.98	0.00	182.50	0.00	183.02	0.11	183.54	0.16
181.99	0.00	182.51	0.00	183.03	0.11	183.55	0.16
182.00	0.00	182.52	0.00	183.04	0.11	183.56	0.16
182.01	0.00	182.53	0.00	183.05	0.11	183.57	0.16
182.02	0.00	182.54	0.00	183.06	0.11	183.58	0.16
182.03	0.00	182.55	0.00	183.07	0.11	183.59	0.16
182.04	0.00	182.56	0.01	183.08	0.11	183.60	0.16
182.05	0.00	182.57	0.01	183.09	0.11	183.61	0.16
182.06	0.00	182.58	0.01	183.10	0.12	183.62	0.17
182.07	0.00	182.59	0.01	183.11	0.12	183.63	0.17
182.08	0.00	182.60	0.02	183.12	0.12	183.64	0.17
182.09	0.00	182.61	0.02	183.13	0.12	183.65	0.17
182.10	0.00	182.62	0.02	183.14	0.12	183.66	0.17
182.11	0.00	182.63	0.03	183.15	0.12	183.67	0.17
182.12	0.00	182.64	0.03	183.16	0.12	183.68	0.17
182.13	0.00	182.65	0.03	183.17	0.12	183.69	0.17
182.14	0.00	182.66	0.04	183.18	0.12	183.70	0.17
182.15	0.00	182.67	0.04	183.19	0.13	183.71	0.17
182.16	0.00	182.68	0.05	183.20	0.13	183.72	0.17
182.17	0.00	182.69	0.05	183.21	0.13	183.73	0.17
182.18	0.00	182.70	0.05	183.22	0.13	183.74	0.17
182.19	0.00	182.71	0.05	183.23	0.13	183.75	0.18
182.20	0.00	182.72	0.06	183.24	0.13	183.76	0.18
182.21	0.00	182.73	0.06	183.25	0.13	183.77	0.18
182.22	0.00	182.74	0.06	183.26	0.13	183.78	0.18
182.23	0.00	182.75	0.06	183.27	0.13	183.79	0.18
182.24	0.00	182.76	0.06	183.28	0.13	183.80	0.18
182.25	0.00	182.77	0.07	183.29	0.14	183.81	0.18
182.26	0.00	182.78	0.07	183.30	0.14	183.82	0.18
182.27	0.00	182.79	0.07	183.31	0.14	183.83	0.18
182.28	0.00	182.80	0.07	183.32	0.14	183.84	0.18
182.29	0.00	182.81	0.07	183.33	0.14	183.85	0.18
182.30	0.00	182.82	0.08	183.34	0.14	183.86	0.18
182.31	0.00	182.83	0.08	183.35	0.14	183.87	0.18
182.32	0.00	182.84	0.08	183.36	0.14	183.88	0.19
182.33	0.00	182.85	0.08	183.37	0.14	183.89	0.19
182.34	0.00	182.86	0.08	183.38	0.14	183.90	0.19
182.35	0.00	182.87	0.08	183.39	0.15	183.91	0.19
182.36	0.00	182.88	0.09	183.40	0.15	183.92	0.19

Stage-Discharge for Pond B-41: Basin #41 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.93	0.19	184.45	2.55	184.97	9.90	185.49	17.51
183.94	0.19	184.46	2.66	184.98	10.07	185.50	18.11
183.95	0.19	184.47	2.77	184.99	10.24	185.51	18.74
183.96	0.19	184.48	2.89	185.00	10.41	185.52	19.40
183.97	0.19	184.49	3.00	185.01	10.58	185.53	20.08
183.98	0.19	184.50	3.12	185.02	10.75	185.54	20.78
183.99	0.19	184.51	3.23	185.03	10.92	185.55	21.51
184.00	0.19	184.52	3.35	185.04	11.09	185.56	22.26
184.01	0.19	184.53	3.47	185.05	11.27	185.57	23.03
184.02	0.20	184.54	3.59	185.06	11.44	185.58	23.82
184.03	0.20	184.55	3.71	185.07	11.62	185.59	24.64
184.04	0.20	184.56	3.84	185.08	11.79	185.60	25.51
184.05	0.20	184.57	3.96	185.09	11.97	185.61	26.41
184.06	0.20	184.58	4.09	185.10	12.15	185.62	27.34
184.07	0.20	184.59	4.22	185.11	12.33	185.63	28.29
184.08	0.20	184.60	4.35	185.12	12.51	185.64	29.27
184.09	0.20	184.61	4.48	185.13	12.69	185.65	30.27
184.10	0.20	184.62	4.61	185.14	12.77	185.66	31.29
184.11	0.20	184.63	4.74	185.15	12.80	185.67	32.34
184.12	0.20	184.64	4.88	185.16	12.83	185.68	33.42
184.13	0.20	184.65	5.01	185.17	12.86	185.69	34.52
184.14	0.22	184.66	5.15	185.18	12.89	185.70	35.64
184.15	0.24	184.67	5.29	185.19	12.92	185.71	36.79
184.16	0.27	184.68	5.42	185.20	12.95	185.72	37.96
184.17	0.31	184.69	5.56	185.21	12.98	185.73	39.16
184.18	0.35	184.70	5.71	185.22	13.01	185.74	40.38
184.19	0.40	184.71	5.85	185.23	13.04	185.75	41.63
184.20	0.45	184.72	5.99	185.24	13.07	185.76	42.89
184.21	0.50	184.73	6.14	185.25	13.10	185.77	44.19
184.22	0.56	184.74	6.28	185.26	13.13	185.78	45.51
184.23	0.62	184.75	6.43	185.27	13.16	185.79	46.85
184.24	0.68	184.76	6.58	185.28	13.19	185.80	48.24
184.25	0.75	184.77	6.72	185.29	13.22	185.81	49.66
184.26	0.82	184.78	6.87	185.30	13.25	185.82	51.10
184.27	0.89	184.79	7.02	185.31	13.28	185.83	52.57
184.28	0.97	184.80	7.18	185.32	13.30	185.84	54.07
184.29	1.04	184.81	7.33	185.33	13.33	185.85	55.59
184.30	1.12	184.82	7.48	185.34	13.36	185.86	57.14
184.31	1.20	184.83	7.64	185.35	13.39	185.87	58.72
184.32	1.29	184.84	7.79	185.36	13.42	185.88	60.32
184.33	1.37	184.85	7.95	185.37	13.45	185.89	61.95
184.34	1.46	184.86	8.11	185.38	13.48	185.90	63.60
184.35	1.55	184.87	8.27	185.39	13.51	185.91	65.28
184.36	1.64	184.88	8.42	185.40	13.65	185.92	66.99
184.37	1.74	184.89	8.59	185.41	13.90	185.93	68.72
184.38	1.83	184.90	8.75	185.42	14.20	185.94	70.48
184.39	1.93	184.91	8.91	185.43	14.56	185.95	72.27
184.40	2.03	184.92	9.07	185.44	14.96	185.96	74.09
184.41	2.13	184.93	9.24	185.45	15.40	185.97	75.93
184.42	2.23	184.94	9.40	185.46	15.88	185.98	77.80
184.43	2.34	184.95	9.57	185.47	16.39	185.99	79.69
184.44	2.45	184.96	9.73	185.48	16.94	186.00	81.34

Stage-Discharge for Pond B-41: Basin #41 (continued)

Elevation (feet)	Primary (cfs)
186.01	83.01
186.02	84.69
186.03	86.38
186.04	88.09
186.05	89.81
186.06	91.54
186.07	93.29
186.08	95.04
186.09	96.81
186.10	98.60
186.11	100.40
186.12	102.20
186.13	104.03
186.14	105.86
186.15	107.71
186.16	109.56
186.17	111.44
186.18	113.32
186.19	115.21
186.20	117.16
186.21	119.11
186.22	121.09
186.23	123.07
186.24	125.07
186.25	127.08
186.26	129.10
186.27	131.14
186.28	133.19
186.29	135.25
186.30	137.32
186.31	139.41
186.32	141.51
186.33	143.63
186.34	145.75
186.35	147.89
186.36	150.04
186.37	152.21
186.38	154.38
186.39	156.57
186.40	158.72
186.41	160.88
186.42	163.05
186.43	165.23
186.44	167.42
186.45	169.62
186.46	171.83
186.47	174.05
186.48	176.29
186.49	178.53
186.50	**180.78**

Stage-Area-Storage for Pond B-41: Basin #41

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.85	0	0	182.37	3,906	1,683
181.86	246	1	182.38	3,912	1,722
181.87	493	5	182.39	3,917	1,762
181.88	739	11	182.40	3,923	1,801
181.89	985	20	182.41	3,929	1,840
181.90	1,232	31	182.42	3,934	1,879
181.91	1,478	44	182.43	3,940	1,919
181.92	1,724	60	182.44	3,946	1,958
181.93	1,971	79	182.45	3,951	1,998
181.94	2,217	100	182.46	3,957	2,037
181.95	2,463	123	182.47	3,963	2,077
181.96	2,710	149	182.48	3,969	2,116
181.97	2,956	177	182.49	3,974	2,156
181.98	3,202	208	182.50	3,980	2,196
181.99	3,449	241	182.51	3,986	2,236
182.00	3,695	277	182.52	3,991	2,276
182.01	3,701	314	182.53	3,997	2,316
182.02	3,706	351	182.54	4,003	2,356
182.03	3,712	388	182.55	4,008	2,396
182.04	3,718	425	182.56	4,014	2,436
182.05	3,723	463	182.57	4,020	2,476
182.06	3,729	500	182.58	4,026	2,516
182.07	3,735	537	182.59	4,031	2,556
182.08	3,741	575	182.60	4,037	2,597
182.09	3,746	612	182.61	4,043	2,637
182.10	3,752	649	182.62	4,048	2,678
182.11	3,758	687	182.63	4,054	2,718
182.12	3,763	725	182.64	4,060	2,759
182.13	3,769	762	182.65	4,066	2,799
182.14	3,775	800	182.66	4,071	2,840
182.15	3,781	838	182.67	4,077	2,881
182.16	3,786	876	182.68	4,083	2,922
182.17	3,792	914	182.69	4,088	2,962
182.18	3,798	951	182.70	4,094	3,003
182.19	3,803	989	182.71	4,100	3,044
182.20	3,809	1,028	182.72	4,105	3,085
182.21	3,815	1,066	182.73	4,111	3,126
182.22	3,820	1,104	182.74	4,117	3,167
182.23	3,826	1,142	182.75	4,123	3,209
182.24	3,832	1,180	182.76	4,128	3,250
182.25	3,838	1,219	182.77	4,134	3,291
182.26	3,843	1,257	182.78	4,140	3,333
182.27	3,849	1,296	182.79	4,145	3,374
182.28	3,855	1,334	182.80	4,151	3,416
182.29	3,860	1,373	182.81	4,157	3,457
182.30	3,866	1,411	182.82	4,162	3,499
182.31	3,872	1,450	182.83	4,168	3,540
182.32	3,877	1,489	182.84	4,174	3,582
182.33	3,883	1,528	182.85	4,179	3,624
182.34	3,889	1,566	182.86	4,185	3,666
182.35	3,894	1,605	182.87	4,191	3,707
182.36	3,900	1,644	182.88	4,197	3,749

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.89	4,202	3,791	183.41	4,513	6,057
182.90	4,208	3,833	183.42	4,519	6,102
182.91	4,214	3,876	183.43	4,525	6,147
182.92	4,219	3,918	183.44	4,531	6,192
182.93	4,225	3,960	183.45	4,537	6,238
182.94	4,231	4,002	183.46	4,543	6,283
182.95	4,236	4,045	183.47	4,549	6,328
182.96	4,242	4,087	183.48	4,555	6,374
182.97	4,248	4,129	183.49	4,561	6,420
182.98	4,254	4,172	183.50	4,568	6,465
182.99	4,259	4,215	183.51	4,574	6,511
183.00	4,265	4,257	183.52	4,580	6,557
183.01	4,271	4,300	183.53	4,586	6,603
183.02	4,277	4,343	183.54	4,592	6,648
183.03	4,283	4,385	183.55	4,598	6,694
183.04	4,289	4,428	183.56	4,604	6,740
183.05	4,295	4,471	183.57	4,610	6,786
183.06	4,301	4,514	183.58	4,616	6,833
183.07	4,307	4,557	183.59	4,622	6,879
183.08	4,313	4,600	183.60	4,628	6,925
183.09	4,319	4,643	183.61	4,634	6,971
183.10	4,325	4,687	183.62	4,640	7,018
183.11	4,332	4,730	183.63	4,646	7,064
183.12	4,338	4,773	183.64	4,652	7,111
183.13	4,344	4,817	183.65	4,658	7,157
183.14	4,350	4,860	183.66	4,664	7,204
183.15	4,356	4,904	183.67	4,670	7,250
183.16	4,362	4,947	183.68	4,676	7,297
183.17	4,368	4,991	183.69	4,682	7,344
183.18	4,374	5,035	183.70	4,688	7,391
183.19	4,380	5,078	183.71	4,695	7,438
183.20	4,386	5,122	183.72	4,701	7,485
183.21	4,392	5,166	183.73	4,707	7,532
183.22	4,398	5,210	183.74	4,713	7,579
183.23	4,404	5,254	183.75	4,719	7,626
183.24	4,410	5,298	183.76	4,725	7,673
183.25	4,416	5,342	183.77	4,731	7,721
183.26	4,422	5,386	183.78	4,737	7,768
183.27	4,428	5,431	183.79	4,743	7,815
183.28	4,434	5,475	183.80	4,749	7,863
183.29	4,440	5,519	183.81	4,755	7,910
183.30	4,446	5,564	183.82	4,761	7,958
183.31	4,453	5,608	183.83	4,767	8,005
183.32	4,459	5,653	183.84	4,773	8,053
183.33	4,465	5,698	183.85	4,779	8,101
183.34	4,471	5,742	183.86	4,785	8,149
183.35	4,477	5,787	183.87	4,791	8,197
183.36	4,483	5,832	183.88	4,797	8,245
183.37	4,489	5,877	183.89	4,803	8,293
183.38	4,495	5,922	183.90	4,810	8,341
183.39	4,501	5,966	183.91	4,816	8,389
183.40	4,507	6,012	183.92	4,822	8,437

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.93	4,828	8,485	184.45	5,156	11,080
183.94	4,834	8,534	184.46	5,162	11,132
183.95	4,840	8,582	184.47	5,168	11,184
183.96	4,846	8,630	184.48	5,175	11,235
183.97	4,852	8,679	184.49	5,181	11,287
183.98	4,858	8,727	184.50	5,188	11,339
183.99	4,864	8,776	184.51	5,194	11,391
184.00	4,870	8,825	184.52	5,200	11,443
184.01	4,876	8,873	184.53	5,207	11,495
184.02	4,883	8,922	184.54	5,213	11,547
184.03	4,889	8,971	184.55	5,219	11,599
184.04	4,895	9,020	184.56	5,226	11,651
184.05	4,902	9,069	184.57	5,232	11,704
184.06	4,908	9,118	184.58	5,238	11,756
184.07	4,914	9,167	184.59	5,245	11,808
184.08	4,921	9,216	184.60	5,251	11,861
184.09	4,927	9,265	184.61	5,257	11,913
184.10	4,933	9,315	184.62	5,264	11,966
184.11	4,940	9,364	184.63	5,270	12,019
184.12	4,946	9,414	184.64	5,276	12,071
184.13	4,953	9,463	184.65	5,283	12,124
184.14	4,959	9,513	184.66	5,289	12,177
184.15	4,965	9,562	184.67	5,295	12,230
184.16	4,972	9,612	184.68	5,302	12,283
184.17	4,978	9,662	184.69	5,308	12,336
184.18	4,984	9,712	184.70	5,314	12,389
184.19	4,991	9,761	184.71	5,321	12,442
184.20	4,997	9,811	184.72	5,327	12,496
184.21	5,003	9,861	184.73	5,334	12,549
184.22	5,010	9,911	184.74	5,340	12,602
184.23	5,016	9,962	184.75	5,346	12,656
184.24	5,022	10,012	184.76	5,353	12,709
184.25	5,029	10,062	184.77	5,359	12,763
184.26	5,035	10,112	184.78	5,365	12,816
184.27	5,041	10,163	184.79	5,372	12,870
184.28	5,048	10,213	184.80	5,378	12,924
184.29	5,054	10,264	184.81	5,384	12,978
184.30	5,060	10,314	184.82	5,391	13,032
184.31	5,067	10,365	184.83	5,397	13,085
184.32	5,073	10,416	184.84	5,403	13,139
184.33	5,080	10,466	184.85	5,410	13,194
184.34	5,086	10,517	184.86	5,416	13,248
184.35	5,092	10,568	184.87	5,422	13,302
184.36	5,099	10,619	184.88	5,429	13,356
184.37	5,105	10,670	184.89	5,435	13,410
184.38	5,111	10,721	184.90	5,442	13,465
184.39	5,118	10,772	184.91	5,448	13,519
184.40	5,124	10,823	184.92	5,454	13,574
184.41	5,130	10,875	184.93	5,461	13,628
184.42	5,137	10,926	184.94	5,467	13,683
184.43	5,143	10,977	184.95	5,473	13,738
184.44	5,149	11,029	184.96	5,480	13,792

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.97	5,486	13,847	185.49	5,823	16,787
184.98	5,492	13,902	185.50	5,829	16,846
184.99	5,499	13,957	185.51	5,835	16,904
185.00	5,505	14,012	185.52	5,842	16,962
185.01	5,511	14,067	185.53	5,848	17,021
185.02	5,518	14,122	185.54	5,855	17,079
185.03	5,524	14,178	185.55	5,861	17,138
185.04	5,531	14,233	185.56	5,868	17,197
185.05	5,537	14,288	185.57	5,874	17,255
185.06	5,544	14,344	185.58	5,881	17,314
185.07	5,550	14,399	185.59	5,887	17,373
185.08	5,557	14,455	185.60	5,894	17,432
185.09	5,563	14,510	185.61	5,900	17,491
185.10	5,570	14,566	185.62	5,907	17,550
185.11	5,576	14,622	185.63	5,913	17,609
185.12	5,583	14,677	185.64	5,920	17,668
185.13	5,589	14,733	185.65	5,926	17,727
185.14	5,596	14,789	185.66	5,933	17,787
185.15	5,602	14,845	185.67	5,939	17,846
185.16	5,609	14,901	185.68	5,946	17,905
185.17	5,615	14,957	185.69	5,952	17,965
185.18	5,622	15,014	185.70	5,959	18,024
185.19	5,628	15,070	185.71	5,965	18,084
185.20	5,635	15,126	185.72	5,972	18,144
185.21	5,641	15,182	185.73	5,978	18,203
185.22	5,648	15,239	185.74	5,985	18,263
185.23	5,654	15,295	185.75	5,991	18,323
185.24	5,661	15,352	185.76	5,997	18,383
185.25	5,667	15,409	185.77	6,004	18,443
185.26	5,673	15,465	185.78	6,010	18,503
185.27	5,680	15,522	185.79	6,017	18,563
185.28	5,686	15,579	185.80	6,023	18,623
185.29	5,693	15,636	185.81	6,030	18,684
185.30	5,699	15,693	185.82	6,036	18,744
185.31	5,706	15,750	185.83	6,043	18,804
185.32	5,712	15,807	185.84	6,049	18,865
185.33	5,719	15,864	185.85	6,056	18,925
185.34	5,725	15,921	185.86	6,062	18,986
185.35	5,732	15,979	185.87	6,069	19,047
185.36	5,738	16,036	185.88	6,075	19,107
185.37	5,745	16,093	185.89	6,082	19,168
185.38	5,751	16,151	185.90	6,088	19,229
185.39	5,758	16,208	185.91	6,095	19,290
185.40	5,764	16,266	185.92	6,101	19,351
185.41	5,771	16,324	185.93	6,108	19,412
185.42	5,777	16,381	185.94	6,114	19,473
185.43	5,784	16,439	185.95	6,121	19,534
185.44	5,790	16,497	185.96	6,127	19,596
185.45	5,797	16,555	185.97	6,134	19,657
185.46	5,803	16,613	185.98	6,140	19,718
185.47	5,810	16,671	185.99	6,147	19,780
185.48	5,816	16,729	186.00	6,153	19,841

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.01	6,160	19,903
186.02	6,167	19,964
186.03	6,174	20,026
186.04	6,181	20,088
186.05	6,188	20,150
186.06	6,195	20,212
186.07	6,202	20,274
186.08	6,209	20,336
186.09	6,216	20,398
186.10	6,223	20,460
186.11	6,230	20,522
186.12	6,237	20,585
186.13	6,244	20,647
186.14	6,251	20,709
186.15	6,258	20,772
186.16	6,265	20,835
186.17	6,272	20,897
186.18	6,279	20,960
186.19	6,286	21,023
186.20	6,293	21,086
186.21	6,300	21,149
186.22	6,307	21,212
186.23	6,314	21,275
186.24	6,321	21,338
186.25	6,328	21,401
186.26	6,334	21,464
186.27	6,341	21,528
186.28	6,348	21,591
186.29	6,355	21,655
186.30	6,362	21,718
186.31	6,369	21,782
186.32	6,376	21,846
186.33	6,383	21,910
186.34	6,390	21,973
186.35	6,397	22,037
186.36	6,404	22,101
186.37	6,411	22,166
186.38	6,418	22,230
186.39	6,425	22,294
186.40	6,432	22,358
186.41	6,439	22,423
186.42	6,446	22,487
186.43	6,453	22,551
186.44	6,460	22,616
186.45	6,467	22,681
186.46	6,474	22,745
186.47	6,481	22,810
186.48	6,488	22,875
186.49	6,495	22,940
186.50	**6,502**	**23,005**

Summary for Pond B-42: Basin #42

Inflow Area = 0.777 ac, 38.35% Impervious, Inflow Depth = 4.04" for Future 10 yr event
Inflow = 3.21 cfs @ 12.17 hrs, Volume= 0.261 af
Outflow = 0.17 cfs @ 14.31 hrs, Volume= 0.166 af, Atten= 95%, Lag= 128.2 min
Primary = 0.17 cfs @ 14.31 hrs, Volume= 0.166 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 183.72' @ 14.31 hrs Surf.Area= 3,504 sf Storage= 7,660 cf

Plug-Flow detention time= 483.3 min calculated for 0.166 af (63% of inflow)
Center-of-Mass det. time= 375.4 min (1,166.0 - 790.6)

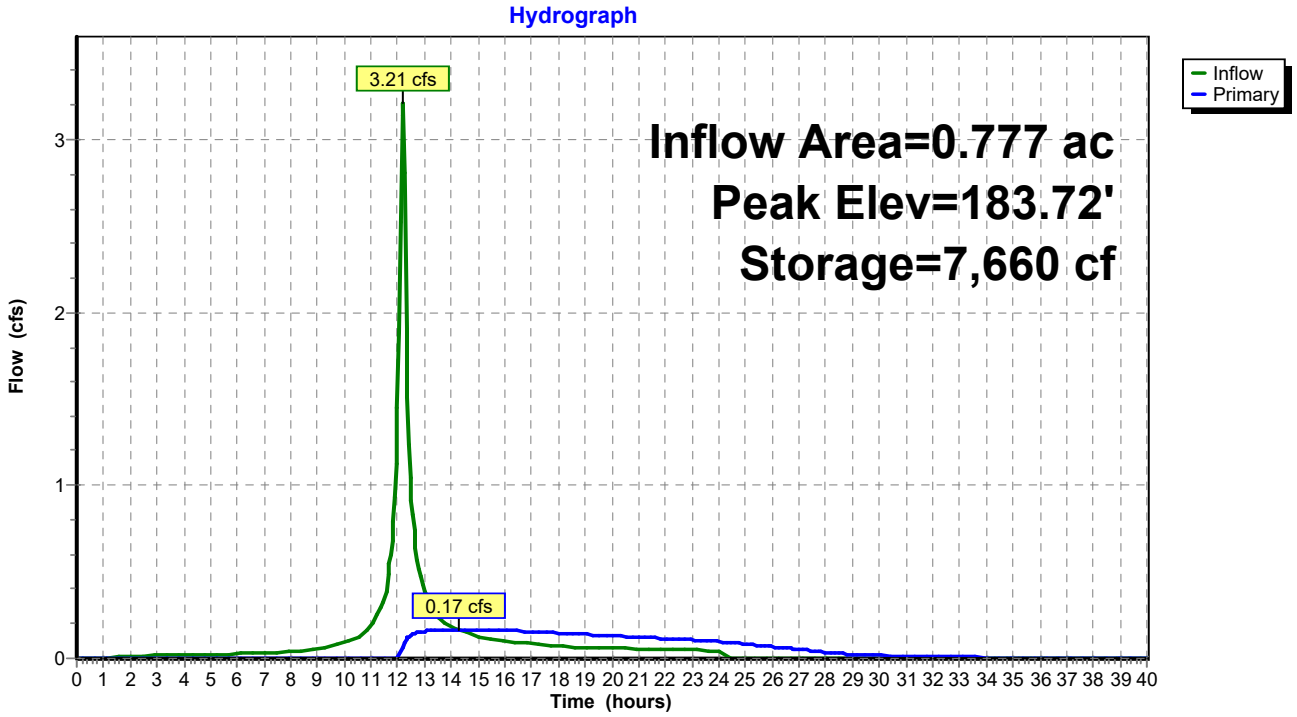
Volume	Invert	Avail.Storage	Storage Description
#1	180.96'	22,293 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
180.96	0	0	0
181.00	2,142	43	43
182.00	2,613	2,378	2,420
183.00	3,118	2,866	5,286
184.00	3,656	3,387	8,673
185.00	4,227	3,942	12,614
186.00	4,831	4,529	17,143
187.00	5,468	5,150	22,293

Device	Routing	Invert	Outlet Devices
#1	Primary	181.96'	**18.0" Round Culvert** L= 192.0' Ke= 0.500 Inlet / Outlet Invert= 181.96' / 181.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	182.60'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.01'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.99'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.17 cfs @ 14.31 hrs HW=183.72' (Free Discharge)
- **1=Culvert** (Passes 0.17 cfs of 7.58 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.17 cfs @ 4.85 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-42: Basin #42



Stage-Discharge for Pond B-42: Basin #42

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.96	0.00	181.48	0.00	182.00	0.00	182.52	0.00
180.97	0.00	181.49	0.00	182.01	0.00	182.53	0.00
180.98	0.00	181.50	0.00	182.02	0.00	182.54	0.00
180.99	0.00	181.51	0.00	182.03	0.00	182.55	0.00
181.00	0.00	181.52	0.00	182.04	0.00	182.56	0.00
181.01	0.00	181.53	0.00	182.05	0.00	182.57	0.00
181.02	0.00	181.54	0.00	182.06	0.00	182.58	0.00
181.03	0.00	181.55	0.00	182.07	0.00	182.59	0.00
181.04	0.00	181.56	0.00	182.08	0.00	182.60	0.00
181.05	0.00	181.57	0.00	182.09	0.00	182.61	0.00
181.06	0.00	181.58	0.00	182.10	0.00	182.62	0.00
181.07	0.00	181.59	0.00	182.11	0.00	182.63	0.00
181.08	0.00	181.60	0.00	182.12	0.00	182.64	0.00
181.09	0.00	181.61	0.00	182.13	0.00	182.65	0.00
181.10	0.00	181.62	0.00	182.14	0.00	182.66	0.01
181.11	0.00	181.63	0.00	182.15	0.00	182.67	0.01
181.12	0.00	181.64	0.00	182.16	0.00	182.68	0.01
181.13	0.00	181.65	0.00	182.17	0.00	182.69	0.01
181.14	0.00	181.66	0.00	182.18	0.00	182.70	0.02
181.15	0.00	181.67	0.00	182.19	0.00	182.71	0.02
181.16	0.00	181.68	0.00	182.20	0.00	182.72	0.02
181.17	0.00	181.69	0.00	182.21	0.00	182.73	0.03
181.18	0.00	181.70	0.00	182.22	0.00	182.74	0.03
181.19	0.00	181.71	0.00	182.23	0.00	182.75	0.03
181.20	0.00	181.72	0.00	182.24	0.00	182.76	0.04
181.21	0.00	181.73	0.00	182.25	0.00	182.77	0.04
181.22	0.00	181.74	0.00	182.26	0.00	182.78	0.05
181.23	0.00	181.75	0.00	182.27	0.00	182.79	0.05
181.24	0.00	181.76	0.00	182.28	0.00	182.80	0.05
181.25	0.00	181.77	0.00	182.29	0.00	182.81	0.05
181.26	0.00	181.78	0.00	182.30	0.00	182.82	0.06
181.27	0.00	181.79	0.00	182.31	0.00	182.83	0.06
181.28	0.00	181.80	0.00	182.32	0.00	182.84	0.06
181.29	0.00	181.81	0.00	182.33	0.00	182.85	0.06
181.30	0.00	181.82	0.00	182.34	0.00	182.86	0.06
181.31	0.00	181.83	0.00	182.35	0.00	182.87	0.07
181.32	0.00	181.84	0.00	182.36	0.00	182.88	0.07
181.33	0.00	181.85	0.00	182.37	0.00	182.89	0.07
181.34	0.00	181.86	0.00	182.38	0.00	182.90	0.07
181.35	0.00	181.87	0.00	182.39	0.00	182.91	0.07
181.36	0.00	181.88	0.00	182.40	0.00	182.92	0.08
181.37	0.00	181.89	0.00	182.41	0.00	182.93	0.08
181.38	0.00	181.90	0.00	182.42	0.00	182.94	0.08
181.39	0.00	181.91	0.00	182.43	0.00	182.95	0.08
181.40	0.00	181.92	0.00	182.44	0.00	182.96	0.08
181.41	0.00	181.93	0.00	182.45	0.00	182.97	0.08
181.42	0.00	181.94	0.00	182.46	0.00	182.98	0.09
181.43	0.00	181.95	0.00	182.47	0.00	182.99	0.09
181.44	0.00	181.96	0.00	182.48	0.00	183.00	0.09
181.45	0.00	181.97	0.00	182.49	0.00	183.01	0.09
181.46	0.00	181.98	0.00	182.50	0.00	183.02	0.09
181.47	0.00	181.99	0.00	182.51	0.00	183.03	0.09

Stage-Discharge for Pond B-42: Basin #42 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.04	0.10	183.56	0.15	184.08	0.43	184.60	5.98
183.05	0.10	183.57	0.15	184.09	0.49	184.61	6.12
183.06	0.10	183.58	0.15	184.10	0.55	184.62	6.27
183.07	0.10	183.59	0.15	184.11	0.61	184.63	6.42
183.08	0.10	183.60	0.16	184.12	0.67	184.64	6.56
183.09	0.10	183.61	0.16	184.13	0.74	184.65	6.71
183.10	0.10	183.62	0.16	184.14	0.81	184.66	6.86
183.11	0.10	183.63	0.16	184.15	0.88	184.67	7.01
183.12	0.11	183.64	0.16	184.16	0.95	184.68	7.16
183.13	0.11	183.65	0.16	184.17	1.03	184.69	7.32
183.14	0.11	183.66	0.16	184.18	1.11	184.70	7.47
183.15	0.11	183.67	0.16	184.19	1.19	184.71	7.62
183.16	0.11	183.68	0.16	184.20	1.27	184.72	7.78
183.17	0.11	183.69	0.16	184.21	1.36	184.73	7.94
183.18	0.11	183.70	0.16	184.22	1.45	184.74	8.09
183.19	0.11	183.71	0.16	184.23	1.54	184.75	8.25
183.20	0.12	183.72	0.17	184.24	1.63	184.76	8.41
183.21	0.12	183.73	0.17	184.25	1.72	184.77	8.57
183.22	0.12	183.74	0.17	184.26	1.82	184.78	8.73
183.23	0.12	183.75	0.17	184.27	1.92	184.79	8.90
183.24	0.12	183.76	0.17	184.28	2.02	184.80	9.06
183.25	0.12	183.77	0.17	184.29	2.12	184.81	9.22
183.26	0.12	183.78	0.17	184.30	2.22	184.82	9.39
183.27	0.12	183.79	0.17	184.31	2.33	184.83	9.55
183.28	0.12	183.80	0.17	184.32	2.43	184.84	9.69
183.29	0.13	183.81	0.17	184.33	2.54	184.85	9.71
183.30	0.13	183.82	0.17	184.34	2.65	184.86	9.73
183.31	0.13	183.83	0.17	184.35	2.76	184.87	9.75
183.32	0.13	183.84	0.17	184.36	2.87	184.88	9.77
183.33	0.13	183.85	0.18	184.37	2.99	184.89	9.79
183.34	0.13	183.86	0.18	184.38	3.10	184.90	9.81
183.35	0.13	183.87	0.18	184.39	3.22	184.91	9.83
183.36	0.13	183.88	0.18	184.40	3.34	184.92	9.85
183.37	0.13	183.89	0.18	184.41	3.46	184.93	9.88
183.38	0.13	183.90	0.18	184.42	3.58	184.94	9.90
183.39	0.14	183.91	0.18	184.43	3.70	184.95	9.92
183.40	0.14	183.92	0.18	184.44	3.83	184.96	9.94
183.41	0.14	183.93	0.18	184.45	3.95	184.97	9.96
183.42	0.14	183.94	0.18	184.46	4.08	184.98	9.98
183.43	0.14	183.95	0.18	184.47	4.21	184.99	10.00
183.44	0.14	183.96	0.18	184.48	4.33	185.00	10.02
183.45	0.14	183.97	0.18	184.49	4.46	185.01	10.04
183.46	0.14	183.98	0.19	184.50	4.60	185.02	10.06
183.47	0.14	183.99	0.19	184.51	4.73	185.03	10.08
183.48	0.14	184.00	0.19	184.52	4.86	185.04	10.10
183.49	0.15	184.01	0.19	184.53	5.00	185.05	10.12
183.50	0.15	184.02	0.20	184.54	5.14	185.06	10.14
183.51	0.15	184.03	0.23	184.55	5.27	185.07	10.16
183.52	0.15	184.04	0.26	184.56	5.41	185.08	10.18
183.53	0.15	184.05	0.29	184.57	5.55	185.09	10.20
183.54	0.15	184.06	0.34	184.58	5.69	185.10	10.21
183.55	0.15	184.07	0.38	184.59	5.84	185.11	10.23

Stage-Discharge for Pond B-42: Basin #42 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.12	10.25	185.64	11.23	186.16	20.39	186.68	92.62
185.13	10.27	185.65	11.24	186.17	21.15	186.69	94.39
185.14	10.29	185.66	11.26	186.18	21.93	186.70	96.16
185.15	10.31	185.67	11.28	186.19	22.73	186.71	97.95
185.16	10.33	185.68	11.30	186.20	23.60	186.72	99.75
185.17	10.35	185.69	11.31	186.21	24.49	186.73	101.56
185.18	10.37	185.70	11.33	186.22	25.40	186.74	103.38
185.19	10.39	185.71	11.35	186.23	26.34	186.75	105.22
185.20	10.41	185.72	11.37	186.24	27.30	186.76	107.07
185.21	10.43	185.73	11.39	186.25	28.29	186.77	108.93
185.22	10.45	185.74	11.40	186.26	29.31	186.78	110.80
185.23	10.47	185.75	11.42	186.27	30.35	186.79	112.69
185.24	10.49	185.76	11.44	186.28	31.41	186.80	114.62
185.25	10.51	185.77	11.46	186.29	32.50	186.81	116.57
185.26	10.52	185.78	11.47	186.30	33.61	186.82	118.53
185.27	10.54	185.79	11.49	186.31	34.75	186.83	120.50
185.28	10.56	185.80	11.51	186.32	35.91	186.84	122.49
185.29	10.58	185.81	11.53	186.33	37.10	186.85	124.49
185.30	10.60	185.82	11.54	186.34	38.31	186.86	126.51
185.31	10.62	185.83	11.56	186.35	39.54	186.87	128.53
185.32	10.64	185.84	11.58	186.36	40.80	186.88	130.57
185.33	10.66	185.85	11.59	186.37	42.09	186.89	132.63
185.34	10.68	185.86	11.61	186.38	43.39	186.90	134.69
185.35	10.69	185.87	11.63	186.39	44.72	186.91	136.77
185.36	10.71	185.88	11.65	186.40	46.11	186.92	138.86
185.37	10.73	185.89	11.66	186.41	47.51	186.93	140.97
185.38	10.75	185.90	11.68	186.42	48.95	186.94	143.08
185.39	10.77	185.91	11.70	186.43	50.41	186.95	145.21
185.40	10.79	185.92	11.72	186.44	51.89	186.96	147.35
185.41	10.81	185.93	11.73	186.45	53.41	186.97	149.51
185.42	10.83	185.94	11.75	186.46	54.95	186.98	151.68
185.43	10.84	185.95	11.77	186.47	56.51	186.99	153.86
185.44	10.86	185.96	11.78	186.48	58.10	187.00	**155.99**
185.45	10.88	185.97	11.80	186.49	59.72		
185.46	10.90	185.98	11.82	186.50	61.36		
185.47	10.92	185.99	11.83	186.51	63.03		
185.48	10.94	186.00	11.97	186.52	64.73		
185.49	10.95	186.01	12.20	186.53	66.45		
185.50	10.97	186.02	12.49	186.54	68.21		
185.51	10.99	186.03	12.84	186.55	69.98		
185.52	11.01	186.04	13.23	186.56	71.79		
185.53	11.03	186.05	13.66	186.57	73.62		
185.54	11.05	186.06	14.13	186.58	75.48		
185.55	11.06	186.07	14.63	186.59	77.36		
185.56	11.08	186.08	15.16	186.60	79.00		
185.57	11.10	186.09	15.72	186.61	80.66		
185.58	11.12	186.10	16.31	186.62	82.33		
185.59	11.14	186.11	16.93	186.63	84.01		
185.60	11.15	186.12	17.57	186.64	85.71		
185.61	11.17	186.13	18.24	186.65	87.42		
185.62	11.19	186.14	18.93	186.66	89.14		
185.63	11.21	186.15	19.65	186.67	90.88		

Stage-Area-Storage for Pond B-42: Basin #42

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.96	0	0	181.48	2,368	1,125
180.97	535	3	181.49	2,373	1,149
180.98	1,071	11	181.50	2,378	1,173
180.99	1,607	24	181.51	2,382	1,197
181.00	2,142	43	181.52	2,387	1,220
181.01	2,147	64	181.53	2,392	1,244
181.02	2,151	86	181.54	2,396	1,268
181.03	2,156	107	181.55	2,401	1,292
181.04	2,161	129	181.56	2,406	1,316
181.05	2,166	151	181.57	2,410	1,340
181.06	2,170	172	181.58	2,415	1,364
181.07	2,175	194	181.59	2,420	1,389
181.08	2,180	216	181.60	2,425	1,413
181.09	2,184	238	181.61	2,429	1,437
181.10	2,189	259	181.62	2,434	1,461
181.11	2,194	281	181.63	2,439	1,486
181.12	2,199	303	181.64	2,443	1,510
181.13	2,203	325	181.65	2,448	1,535
181.14	2,208	347	181.66	2,453	1,559
181.15	2,213	369	181.67	2,458	1,584
181.16	2,217	392	181.68	2,462	1,608
181.17	2,222	414	181.69	2,467	1,633
181.18	2,227	436	181.70	2,472	1,658
181.19	2,231	458	181.71	2,476	1,682
181.20	2,236	481	181.72	2,481	1,707
181.21	2,241	503	181.73	2,486	1,732
181.22	2,246	525	181.74	2,491	1,757
181.23	2,250	548	181.75	2,495	1,782
181.24	2,255	570	181.76	2,500	1,807
181.25	2,260	593	181.77	2,505	1,832
181.26	2,264	616	181.78	2,509	1,857
181.27	2,269	638	181.79	2,514	1,882
181.28	2,274	661	181.80	2,519	1,907
181.29	2,279	684	181.81	2,524	1,932
181.30	2,283	707	181.82	2,528	1,958
181.31	2,288	729	181.83	2,533	1,983
181.32	2,293	752	181.84	2,538	2,008
181.33	2,297	775	181.85	2,542	2,034
181.34	2,302	798	181.86	2,547	2,059
181.35	2,307	821	181.87	2,552	2,085
181.36	2,312	844	181.88	2,556	2,110
181.37	2,316	868	181.89	2,561	2,136
181.38	2,321	891	181.90	2,566	2,161
181.39	2,326	914	181.91	2,571	2,187
181.40	2,330	937	181.92	2,575	2,213
181.41	2,335	961	181.93	2,580	2,239
181.42	2,340	984	181.94	2,585	2,264
181.43	2,345	1,007	181.95	2,589	2,290
181.44	2,349	1,031	181.96	2,594	2,316
181.45	2,354	1,054	181.97	2,599	2,342
181.46	2,359	1,078	181.98	2,604	2,368
181.47	2,363	1,102	181.99	2,608	2,394

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.00	2,613	2,420	182.52	2,876	3,847
182.01	2,618	2,446	182.53	2,881	3,876
182.02	2,623	2,473	182.54	2,886	3,905
182.03	2,628	2,499	182.55	2,891	3,934
182.04	2,633	2,525	182.56	2,896	3,963
182.05	2,638	2,552	182.57	2,901	3,992
182.06	2,643	2,578	182.58	2,906	4,021
182.07	2,648	2,604	182.59	2,911	4,050
182.08	2,653	2,631	182.60	2,916	4,079
182.09	2,658	2,658	182.61	2,921	4,108
182.10	2,663	2,684	182.62	2,926	4,137
182.11	2,669	2,711	182.63	2,931	4,167
182.12	2,674	2,738	182.64	2,936	4,196
182.13	2,679	2,764	182.65	2,941	4,225
182.14	2,684	2,791	182.66	2,946	4,255
182.15	2,689	2,818	182.67	2,951	4,284
182.16	2,694	2,845	182.68	2,956	4,314
182.17	2,699	2,872	182.69	2,961	4,344
182.18	2,704	2,899	182.70	2,967	4,373
182.19	2,709	2,926	182.71	2,972	4,403
182.20	2,714	2,953	182.72	2,977	4,433
182.21	2,719	2,980	182.73	2,982	4,462
182.22	2,724	3,007	182.74	2,987	4,492
182.23	2,729	3,035	182.75	2,992	4,522
182.24	2,734	3,062	182.76	2,997	4,552
182.25	2,739	3,089	182.77	3,002	4,582
182.26	2,744	3,117	182.78	3,007	4,612
182.27	2,749	3,144	182.79	3,012	4,642
182.28	2,754	3,172	182.80	3,017	4,672
182.29	2,759	3,199	182.81	3,022	4,703
182.30	2,765	3,227	182.82	3,027	4,733
182.31	2,770	3,255	182.83	3,032	4,763
182.32	2,775	3,282	182.84	3,037	4,793
182.33	2,780	3,310	182.85	3,042	4,824
182.34	2,785	3,338	182.86	3,047	4,854
182.35	2,790	3,366	182.87	3,052	4,885
182.36	2,795	3,394	182.88	3,057	4,915
182.37	2,800	3,422	182.89	3,062	4,946
182.38	2,805	3,450	182.90	3,068	4,977
182.39	2,810	3,478	182.91	3,073	5,007
182.40	2,815	3,506	182.92	3,078	5,038
182.41	2,820	3,534	182.93	3,083	5,069
182.42	2,825	3,562	182.94	3,088	5,100
182.43	2,830	3,591	182.95	3,093	5,131
182.44	2,835	3,619	182.96	3,098	5,162
182.45	2,840	3,647	182.97	3,103	5,193
182.46	2,845	3,676	182.98	3,108	5,224
182.47	2,850	3,704	182.99	3,113	5,255
182.48	2,855	3,733	183.00	3,118	5,286
182.49	2,860	3,761	183.01	3,123	5,317
182.50	2,866	3,790	183.02	3,129	5,348
182.51	2,871	3,819	183.03	3,134	5,380

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.04	3,140	5,411	183.56	3,419	7,116
183.05	3,145	5,442	183.57	3,425	7,150
183.06	3,150	5,474	183.58	3,430	7,185
183.07	3,156	5,505	183.59	3,435	7,219
183.08	3,161	5,537	183.60	3,441	7,253
183.09	3,166	5,569	183.61	3,446	7,288
183.10	3,172	5,600	183.62	3,452	7,322
183.11	3,177	5,632	183.63	3,457	7,357
183.12	3,183	5,664	183.64	3,462	7,392
183.13	3,188	5,696	183.65	3,468	7,426
183.14	3,193	5,728	183.66	3,473	7,461
183.15	3,199	5,760	183.67	3,478	7,496
183.16	3,204	5,792	183.68	3,484	7,530
183.17	3,209	5,824	183.69	3,489	7,565
183.18	3,215	5,856	183.70	3,495	7,600
183.19	3,220	5,888	183.71	3,500	7,635
183.20	3,226	5,920	183.72	3,505	7,670
183.21	3,231	5,952	183.73	3,511	7,705
183.22	3,236	5,985	183.74	3,516	7,740
183.23	3,242	6,017	183.75	3,522	7,776
183.24	3,247	6,050	183.76	3,527	7,811
183.25	3,253	6,082	183.77	3,532	7,846
183.26	3,258	6,115	183.78	3,538	7,882
183.27	3,263	6,147	183.79	3,543	7,917
183.28	3,269	6,180	183.80	3,548	7,952
183.29	3,274	6,213	183.81	3,554	7,988
183.30	3,279	6,245	183.82	3,559	8,023
183.31	3,285	6,278	183.83	3,565	8,059
183.32	3,290	6,311	183.84	3,570	8,095
183.33	3,296	6,344	183.85	3,575	8,130
183.34	3,301	6,377	183.86	3,581	8,166
183.35	3,306	6,410	183.87	3,586	8,202
183.36	3,312	6,443	183.88	3,591	8,238
183.37	3,317	6,476	183.89	3,597	8,274
183.38	3,322	6,510	183.90	3,602	8,310
183.39	3,328	6,543	183.91	3,608	8,346
183.40	3,333	6,576	183.92	3,613	8,382
183.41	3,339	6,609	183.93	3,618	8,418
183.42	3,344	6,643	183.94	3,624	8,454
183.43	3,349	6,676	183.95	3,629	8,491
183.44	3,355	6,710	183.96	3,634	8,527
183.45	3,360	6,743	183.97	3,640	8,563
183.46	3,365	6,777	183.98	3,645	8,600
183.47	3,371	6,811	183.99	3,651	8,636
183.48	3,376	6,844	184.00	3,656	8,673
183.49	3,382	6,878	184.01	3,662	8,709
183.50	3,387	6,912	184.02	3,667	8,746
183.51	3,392	6,946	184.03	3,673	8,783
183.52	3,398	6,980	184.04	3,679	8,820
183.53	3,403	7,014	184.05	3,685	8,856
183.54	3,409	7,048	184.06	3,690	8,893
183.55	3,414	7,082	184.07	3,696	8,930

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.08	3,702	8,967	184.60	3,999	10,969
184.09	3,707	9,004	184.61	4,004	11,009
184.10	3,713	9,041	184.62	4,010	11,049
184.11	3,719	9,078	184.63	4,016	11,089
184.12	3,725	9,116	184.64	4,021	11,130
184.13	3,730	9,153	184.65	4,027	11,170
184.14	3,736	9,190	184.66	4,033	11,210
184.15	3,742	9,228	184.67	4,039	11,251
184.16	3,747	9,265	184.68	4,044	11,291
184.17	3,753	9,303	184.69	4,050	11,331
184.18	3,759	9,340	184.70	4,056	11,372
184.19	3,764	9,378	184.71	4,061	11,413
184.20	3,770	9,415	184.72	4,067	11,453
184.21	3,776	9,453	184.73	4,073	11,494
184.22	3,782	9,491	184.74	4,079	11,535
184.23	3,787	9,529	184.75	4,084	11,575
184.24	3,793	9,567	184.76	4,090	11,616
184.25	3,799	9,605	184.77	4,096	11,657
184.26	3,804	9,643	184.78	4,101	11,698
184.27	3,810	9,681	184.79	4,107	11,739
184.28	3,816	9,719	184.80	4,113	11,780
184.29	3,822	9,757	184.81	4,119	11,822
184.30	3,827	9,795	184.82	4,124	11,863
184.31	3,833	9,834	184.83	4,130	11,904
184.32	3,839	9,872	184.84	4,136	11,945
184.33	3,844	9,910	184.85	4,141	11,987
184.34	3,850	9,949	184.86	4,147	12,028
184.35	3,856	9,987	184.87	4,153	12,070
184.36	3,862	10,026	184.88	4,158	12,111
184.37	3,867	10,065	184.89	4,164	12,153
184.38	3,873	10,103	184.90	4,170	12,194
184.39	3,879	10,142	184.91	4,176	12,236
184.40	3,884	10,181	184.92	4,181	12,278
184.41	3,890	10,220	184.93	4,187	12,320
184.42	3,896	10,259	184.94	4,193	12,362
184.43	3,902	10,298	184.95	4,198	12,404
184.44	3,907	10,337	184.96	4,204	12,446
184.45	3,913	10,376	184.97	4,210	12,488
184.46	3,919	10,415	184.98	4,216	12,530
184.47	3,924	10,454	184.99	4,221	12,572
184.48	3,930	10,493	185.00	4,227	12,614
184.49	3,936	10,533	185.01	4,233	12,657
184.50	3,942	10,572	185.02	4,239	12,699
184.51	3,947	10,612	185.03	4,245	12,741
184.52	3,953	10,651	185.04	4,251	12,784
184.53	3,959	10,691	185.05	4,257	12,826
184.54	3,964	10,730	185.06	4,263	12,869
184.55	3,970	10,770	185.07	4,269	12,912
184.56	3,976	10,810	185.08	4,275	12,954
184.57	3,981	10,850	185.09	4,281	12,997
184.58	3,987	10,889	185.10	4,287	13,040
184.59	3,993	10,929	185.11	4,293	13,083

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.12	4,299	13,126	185.64	4,614	15,443
185.13	4,306	13,169	185.65	4,620	15,489
185.14	4,312	13,212	185.66	4,626	15,536
185.15	4,318	13,255	185.67	4,632	15,582
185.16	4,324	13,298	185.68	4,638	15,628
185.17	4,330	13,342	185.69	4,644	15,675
185.18	4,336	13,385	185.70	4,650	15,721
185.19	4,342	13,428	185.71	4,656	15,768
185.20	4,348	13,472	185.72	4,662	15,814
185.21	4,354	13,515	185.73	4,668	15,861
185.22	4,360	13,559	185.74	4,674	15,908
185.23	4,366	13,603	185.75	4,680	15,954
185.24	4,372	13,646	185.76	4,686	16,001
185.25	4,378	13,690	185.77	4,692	16,048
185.26	4,384	13,734	185.78	4,698	16,095
185.27	4,390	13,778	185.79	4,704	16,142
185.28	4,396	13,822	185.80	4,710	16,189
185.29	4,402	13,866	185.81	4,716	16,236
185.30	4,408	13,910	185.82	4,722	16,284
185.31	4,414	13,954	185.83	4,728	16,331
185.32	4,420	13,998	185.84	4,734	16,378
185.33	4,426	14,042	185.85	4,740	16,425
185.34	4,432	14,086	185.86	4,746	16,473
185.35	4,438	14,131	185.87	4,752	16,520
185.36	4,444	14,175	185.88	4,759	16,568
185.37	4,450	14,220	185.89	4,765	16,616
185.38	4,457	14,264	185.90	4,771	16,663
185.39	4,463	14,309	185.91	4,777	16,711
185.40	4,469	14,353	185.92	4,783	16,759
185.41	4,475	14,398	185.93	4,789	16,807
185.42	4,481	14,443	185.94	4,795	16,855
185.43	4,487	14,488	185.95	4,801	16,903
185.44	4,493	14,533	185.96	4,807	16,951
185.45	4,499	14,578	185.97	4,813	16,999
185.46	4,505	14,623	185.98	4,819	17,047
185.47	4,511	14,668	185.99	4,825	17,095
185.48	4,517	14,713	186.00	4,831	17,143
185.49	4,523	14,758	186.01	4,837	17,192
185.50	4,529	14,803	186.02	4,844	17,240
185.51	4,535	14,849	186.03	4,850	17,289
185.52	4,541	14,894	186.04	4,856	17,337
185.53	4,547	14,939	186.05	4,863	17,386
185.54	4,553	14,985	186.06	4,869	17,434
185.55	4,559	15,031	186.07	4,876	17,483
185.56	4,565	15,076	186.08	4,882	17,532
185.57	4,571	15,122	186.09	4,888	17,581
185.58	4,577	15,168	186.10	4,895	17,630
185.59	4,583	15,213	186.11	4,901	17,679
185.60	4,589	15,259	186.12	4,907	17,728
185.61	4,595	15,305	186.13	4,914	17,777
185.62	4,601	15,351	186.14	4,920	17,826
185.63	4,608	15,397	186.15	4,927	17,875

Stage-Area-Storage for Pond B-42: Basin #42 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.16	4,933	17,924
186.17	4,939	17,974
186.18	4,946	18,023
186.19	4,952	18,073
186.20	4,958	18,122
186.21	4,965	18,172
186.22	4,971	18,222
186.23	4,978	18,271
186.24	4,984	18,321
186.25	4,990	18,371
186.26	4,997	18,421
186.27	5,003	18,471
186.28	5,009	18,521
186.29	5,016	18,571
186.30	5,022	18,621
186.31	5,028	18,672
186.32	5,035	18,722
186.33	5,041	18,772
186.34	5,048	18,823
186.35	5,054	18,873
186.36	5,060	18,924
186.37	5,067	18,974
186.38	5,073	19,025
186.39	5,079	19,076
186.40	5,086	19,127
186.41	5,092	19,178
186.42	5,099	19,229
186.43	5,105	19,280
186.44	5,111	19,331
186.45	5,118	19,382
186.46	5,124	19,433
186.47	5,130	19,484
186.48	5,137	19,536
186.49	5,143	19,587
186.50	5,150	19,638
186.51	5,156	19,690
186.52	5,162	19,742
186.53	5,169	19,793
186.54	5,175	19,845
186.55	5,181	19,897
186.56	5,188	19,949
186.57	5,194	20,000
186.58	5,200	20,052
186.59	5,207	20,104
186.60	5,213	20,157
186.61	5,220	20,209
186.62	5,226	20,261
186.63	5,232	20,313
186.64	5,239	20,366
186.65	5,245	20,418
186.66	5,251	20,471
186.67	5,258	20,523
186.68	5,264	20,576
186.69	5,271	20,628
186.70	5,277	20,681
186.71	5,283	20,734
186.72	5,290	20,787
186.73	5,296	20,840
186.74	5,302	20,893
186.75	5,309	20,946
186.76	5,315	20,999
186.77	5,321	21,052
186.78	5,328	21,105
186.79	5,334	21,159
186.80	5,341	21,212
186.81	5,347	21,265
186.82	5,353	21,319
186.83	5,360	21,372
186.84	5,366	21,426
186.85	5,372	21,480
186.86	5,379	21,534
186.87	5,385	21,587
186.88	5,392	21,641
186.89	5,398	21,695
186.90	5,404	21,749
186.91	5,411	21,803
186.92	5,417	21,857
186.93	5,423	21,912
186.94	5,430	21,966
186.95	5,436	22,020
186.96	5,443	22,075
186.97	5,449	22,129
186.98	5,455	22,184
186.99	5,462	22,238
187.00	**5,468**	**22,293**

Summary for Pond B-43: Basin #43

Inflow Area = 2.712 ac, 33.89% Impervious, Inflow Depth = 3.92" for Future 10 yr event
Inflow = 10.97 cfs @ 12.17 hrs, Volume= 0.887 af
Outflow = 7.92 cfs @ 12.27 hrs, Volume= 0.775 af, Atten= 28%, Lag= 5.8 min
Primary = 7.92 cfs @ 12.27 hrs, Volume= 0.775 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 179.30' @ 12.27 hrs Surf.Area= 6,482 sf Storage= 13,964 cf

Plug-Flow detention time= 263.1 min calculated for 0.775 af (87% of inflow)
Center-of-Mass det. time= 201.8 min (996.6 - 794.8)

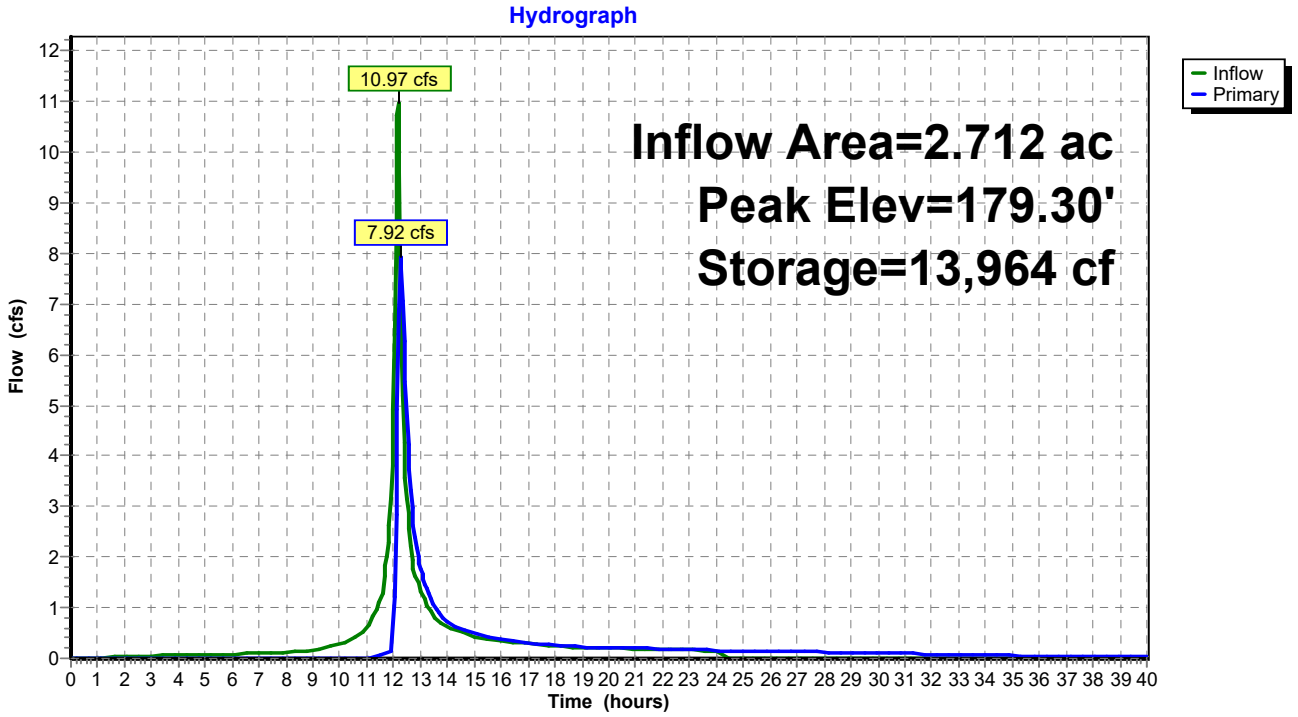
Volume	Invert	Avail.Storage	Storage Description
#1	176.35'	26,392 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
176.35	0	0	0
177.00	4,447	1,445	1,445
178.00	5,292	4,870	6,315
179.00	6,194	5,743	12,058
180.00	7,153	6,674	18,731
181.00	8,168	7,661	26,392

Device	Routing	Invert	Outlet Devices
#1	Primary	176.30'	**18.0" Round Culvert** L= 200.0' Ke= 0.500 Inlet / Outlet Invert= 176.30' / 166.10' S= 0.0510 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	177.62'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	178.58'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	180.00'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=7.79 cfs @ 12.27 hrs HW=179.29' (Free Discharge)
- **1=Culvert** (Passes 7.79 cfs of 12.74 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.21 cfs @ 6.03 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 7.59 cfs @ 2.76 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-43: Basin #43



Stage-Discharge for Pond B-43: Basin #43

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
176.35	0.00	176.87	0.00	177.39	0.00	177.91	0.07
176.36	0.00	176.88	0.00	177.40	0.00	177.92	0.07
176.37	0.00	176.89	0.00	177.41	0.00	177.93	0.07
176.38	0.00	176.90	0.00	177.42	0.00	177.94	0.08
176.39	0.00	176.91	0.00	177.43	0.00	177.95	0.08
176.40	0.00	176.92	0.00	177.44	0.00	177.96	0.08
176.41	0.00	176.93	0.00	177.45	0.00	177.97	0.08
176.42	0.00	176.94	0.00	177.46	0.00	177.98	0.08
176.43	0.00	176.95	0.00	177.47	0.00	177.99	0.08
176.44	0.00	176.96	0.00	177.48	0.00	178.00	0.09
176.45	0.00	176.97	0.00	177.49	0.00	178.01	0.09
176.46	0.00	176.98	0.00	177.50	0.00	178.02	0.09
176.47	0.00	176.99	0.00	177.51	0.00	178.03	0.09
176.48	0.00	177.00	0.00	177.52	0.00	178.04	0.09
176.49	0.00	177.01	0.00	177.53	0.00	178.05	0.09
176.50	0.00	177.02	0.00	177.54	0.00	178.06	0.10
176.51	0.00	177.03	0.00	177.55	0.00	178.07	0.10
176.52	0.00	177.04	0.00	177.56	0.00	178.08	0.10
176.53	0.00	177.05	0.00	177.57	0.00	178.09	0.10
176.54	0.00	177.06	0.00	177.58	0.00	178.10	0.10
176.55	0.00	177.07	0.00	177.59	0.00	178.11	0.10
176.56	0.00	177.08	0.00	177.60	0.00	178.12	0.10
176.57	0.00	177.09	0.00	177.61	0.00	178.13	0.10
176.58	0.00	177.10	0.00	177.62	0.00	178.14	0.11
176.59	0.00	177.11	0.00	177.63	0.00	178.15	0.11
176.60	0.00	177.12	0.00	177.64	0.00	178.16	0.11
176.61	0.00	177.13	0.00	177.65	0.00	178.17	0.11
176.62	0.00	177.14	0.00	177.66	0.00	178.18	0.11
176.63	0.00	177.15	0.00	177.67	0.00	178.19	0.11
176.64	0.00	177.16	0.00	177.68	0.01	178.20	0.11
176.65	0.00	177.17	0.00	177.69	0.01	178.21	0.11
176.66	0.00	177.18	0.00	177.70	0.01	178.22	0.12
176.67	0.00	177.19	0.00	177.71	0.01	178.23	0.12
176.68	0.00	177.20	0.00	177.72	0.02	178.24	0.12
176.69	0.00	177.21	0.00	177.73	0.02	178.25	0.12
176.70	0.00	177.22	0.00	177.74	0.02	178.26	0.12
176.71	0.00	177.23	0.00	177.75	0.03	178.27	0.12
176.72	0.00	177.24	0.00	177.76	0.03	178.28	0.12
176.73	0.00	177.25	0.00	177.77	0.03	178.29	0.12
176.74	0.00	177.26	0.00	177.78	0.04	178.30	0.12
176.75	0.00	177.27	0.00	177.79	0.04	178.31	0.13
176.76	0.00	177.28	0.00	177.80	0.05	178.32	0.13
176.77	0.00	177.29	0.00	177.81	0.05	178.33	0.13
176.78	0.00	177.30	0.00	177.82	0.05	178.34	0.13
176.79	0.00	177.31	0.00	177.83	0.05	178.35	0.13
176.80	0.00	177.32	0.00	177.84	0.06	178.36	0.13
176.81	0.00	177.33	0.00	177.85	0.06	178.37	0.13
176.82	0.00	177.34	0.00	177.86	0.06	178.38	0.13
176.83	0.00	177.35	0.00	177.87	0.06	178.39	0.13
176.84	0.00	177.36	0.00	177.88	0.06	178.40	0.13
176.85	0.00	177.37	0.00	177.89	0.07	178.41	0.14
176.86	0.00	177.38	0.00	177.90	0.07	178.42	0.14

Stage-Discharge for Pond B-43: Basin #43 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
178.43	0.14	178.95	3.07	179.47	10.71	179.99	14.59
178.44	0.14	178.96	3.19	179.48	10.88	180.00	14.61
178.45	0.14	178.97	3.31	179.49	11.06	180.01	14.76
178.46	0.14	178.98	3.43	179.50	11.23	180.02	14.99
178.47	0.14	178.99	3.55	179.51	11.40	180.03	15.30
178.48	0.14	179.00	3.67	179.52	11.58	180.04	15.65
178.49	0.14	179.01	3.79	179.53	11.76	180.05	16.05
178.50	0.14	179.02	3.92	179.54	11.93	180.06	16.49
178.51	0.15	179.03	4.05	179.55	12.11	180.07	16.96
178.52	0.15	179.04	4.18	179.56	12.29	180.08	17.47
178.53	0.15	179.05	4.30	179.57	12.47	180.09	18.01
178.54	0.15	179.06	4.44	179.58	12.65	180.10	18.58
178.55	0.15	179.07	4.57	179.59	12.83	180.11	19.18
178.56	0.15	179.08	4.70	179.60	13.01	180.12	19.80
178.57	0.15	179.09	4.83	179.61	13.19	180.13	20.45
178.58	0.15	179.10	4.97	179.62	13.38	180.14	21.13
178.59	0.17	179.11	5.11	179.63	13.56	180.15	21.83
178.60	0.19	179.12	5.24	179.64	13.69	180.16	22.55
178.61	0.22	179.13	5.38	179.65	13.72	180.17	23.30
178.62	0.26	179.14	5.52	179.66	13.75	180.18	24.07
178.63	0.30	179.15	5.66	179.67	13.77	180.19	24.86
178.64	0.35	179.16	5.81	179.68	13.80	180.20	25.67
178.65	0.40	179.17	5.95	179.69	13.83	180.21	26.54
178.66	0.45	179.18	6.09	179.70	13.85	180.22	27.43
178.67	0.51	179.19	6.24	179.71	13.88	180.23	28.36
178.68	0.57	179.20	6.39	179.72	13.90	180.24	29.30
178.69	0.64	179.21	6.53	179.73	13.93	180.25	30.27
178.70	0.70	179.22	6.68	179.74	13.96	180.26	31.27
178.71	0.77	179.23	6.83	179.75	13.98	180.27	32.29
178.72	0.84	179.24	6.98	179.76	14.01	180.28	33.34
178.73	0.92	179.25	7.14	179.77	14.03	180.29	34.41
178.74	1.00	179.26	7.29	179.78	14.06	180.30	35.51
178.75	1.08	179.27	7.44	179.79	14.08	180.31	36.63
178.76	1.16	179.28	7.60	179.80	14.11	180.32	37.77
178.77	1.24	179.29	7.75	179.81	14.14	180.33	38.94
178.78	1.33	179.30	7.91	179.82	14.16	180.34	40.14
178.79	1.41	179.31	8.07	179.83	14.19	180.35	41.35
178.80	1.51	179.32	8.23	179.84	14.21	180.36	42.60
178.81	1.60	179.33	8.39	179.85	14.24	180.37	43.86
178.82	1.69	179.34	8.55	179.86	14.26	180.38	45.15
178.83	1.79	179.35	8.71	179.87	14.29	180.39	46.47
178.84	1.88	179.36	8.87	179.88	14.31	180.40	47.80
178.85	1.98	179.37	9.03	179.89	14.34	180.41	49.19
178.86	2.09	179.38	9.20	179.90	14.36	180.42	50.61
178.87	2.19	179.39	9.36	179.91	14.39	180.43	52.05
178.88	2.29	179.40	9.53	179.92	14.41	180.44	53.52
178.89	2.40	179.41	9.69	179.93	14.44	180.45	55.01
178.90	2.51	179.42	9.86	179.94	14.46	180.46	56.53
178.91	2.62	179.43	10.03	179.95	14.49	180.47	58.07
178.92	2.73	179.44	10.20	179.96	14.51	180.48	59.65
178.93	2.84	179.45	10.37	179.97	14.54	180.49	61.24
178.94	2.96	179.46	10.54	179.98	14.56	180.50	62.87

Stage-Discharge for Pond B-43: Basin #43 (continued)

Elevation (feet)	Primary (cfs)
180.51	64.52
180.52	66.20
180.53	67.90
180.54	69.63
180.55	71.39
180.56	73.18
180.57	74.99
180.58	76.82
180.59	78.69
180.60	80.58
180.61	82.23
180.62	83.89
180.63	85.57
180.64	87.26
180.65	88.96
180.66	90.68
180.67	92.41
180.68	94.15
180.69	95.91
180.70	97.67
180.71	99.46
180.72	101.25
180.73	103.05
180.74	104.87
180.75	106.70
180.76	108.55
180.77	110.40
180.78	112.27
180.79	114.15
180.80	116.04
180.81	117.98
180.82	119.94
180.83	121.91
180.84	123.89
180.85	125.88
180.86	127.89
180.87	129.91
180.88	131.94
180.89	133.99
180.90	136.05
180.91	138.12
180.92	140.21
180.93	142.30
180.94	144.41
180.95	146.54
180.96	148.67
180.97	150.82
180.98	152.98
180.99	155.16
181.00	**157.34**

Stage-Area-Storage for Pond B-43: Basin #43

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
176.35	0	0	176.87	3,558	925
176.36	68	0	176.88	3,626	961
176.37	137	1	176.89	3,694	997
176.38	205	3	176.90	3,763	1,035
176.39	274	5	176.91	3,831	1,073
176.40	342	9	176.92	3,900	1,111
176.41	410	12	176.93	3,968	1,151
176.42	479	17	176.94	4,037	1,191
176.43	547	22	176.95	4,105	1,231
176.44	616	28	176.96	4,173	1,273
176.45	684	34	176.97	4,242	1,315
176.46	753	41	176.98	4,310	1,358
176.47	821	49	176.99	4,379	1,401
176.48	889	58	177.00	4,447	1,445
176.49	958	67	177.01	4,455	1,490
176.50	1,026	77	177.02	4,464	1,534
176.51	1,095	88	177.03	4,472	1,579
176.52	1,163	99	177.04	4,481	1,624
176.53	1,231	111	177.05	4,489	1,669
176.54	1,300	123	177.06	4,498	1,714
176.55	1,368	137	177.07	4,506	1,759
176.56	1,437	151	177.08	4,515	1,804
176.57	1,505	166	177.09	4,523	1,849
176.58	1,574	181	177.10	4,531	1,894
176.59	1,642	197	177.11	4,540	1,940
176.60	1,710	214	177.12	4,548	1,985
176.61	1,779	231	177.13	4,557	2,031
176.62	1,847	249	177.14	4,565	2,076
176.63	1,916	268	177.15	4,574	2,122
176.64	1,984	288	177.16	4,582	2,168
176.65	2,052	308	177.17	4,591	2,213
176.66	2,121	329	177.18	4,599	2,259
176.67	2,189	350	177.19	4,608	2,305
176.68	2,258	373	177.20	4,616	2,352
176.69	2,326	395	177.21	4,624	2,398
176.70	2,395	419	177.22	4,633	2,444
176.71	2,463	443	177.23	4,641	2,490
176.72	2,531	468	177.24	4,650	2,537
176.73	2,600	494	177.25	4,658	2,583
176.74	2,668	520	177.26	4,667	2,630
176.75	2,737	547	177.27	4,675	2,677
176.76	2,805	575	177.28	4,684	2,724
176.77	2,873	603	177.29	4,692	2,770
176.78	2,942	633	177.30	4,700	2,817
176.79	3,010	662	177.31	4,709	2,864
176.80	3,079	693	177.32	4,717	2,912
176.81	3,147	724	177.33	4,726	2,959
176.82	3,216	756	177.34	4,734	3,006
176.83	3,284	788	177.35	4,743	3,053
176.84	3,352	821	177.36	4,751	3,101
176.85	3,421	855	177.37	4,760	3,149
176.86	3,489	890	177.38	4,768	3,196

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
177.39	4,777	3,244	177.91	5,216	5,842
177.40	4,785	3,292	177.92	5,224	5,894
177.41	4,793	3,340	177.93	5,233	5,946
177.42	4,802	3,388	177.94	5,241	5,999
177.43	4,810	3,436	177.95	5,250	6,051
177.44	4,819	3,484	177.96	5,258	6,104
177.45	4,827	3,532	177.97	5,267	6,156
177.46	4,836	3,580	177.98	5,275	6,209
177.47	4,844	3,629	177.99	5,284	6,262
177.48	4,853	3,677	178.00	5,292	6,315
177.49	4,861	3,726	178.01	5,301	6,368
177.50	4,870	3,774	178.02	5,310	6,421
177.51	4,878	3,823	178.03	5,319	6,474
177.52	4,886	3,872	178.04	5,328	6,527
177.53	4,895	3,921	178.05	5,337	6,581
177.54	4,903	3,970	178.06	5,346	6,634
177.55	4,912	4,019	178.07	5,355	6,687
177.56	4,920	4,068	178.08	5,364	6,741
177.57	4,929	4,117	178.09	5,373	6,795
177.58	4,937	4,167	178.10	5,382	6,848
177.59	4,946	4,216	178.11	5,391	6,902
177.60	4,954	4,266	178.12	5,400	6,956
177.61	4,962	4,315	178.13	5,409	7,010
177.62	4,971	4,365	178.14	5,418	7,064
177.63	4,979	4,415	178.15	5,427	7,119
177.64	4,988	4,464	178.16	5,436	7,173
177.65	4,996	4,514	178.17	5,445	7,227
177.66	5,005	4,564	178.18	5,454	7,282
177.67	5,013	4,614	178.19	5,463	7,337
177.68	5,022	4,665	178.20	5,472	7,391
177.69	5,030	4,715	178.21	5,481	7,446
177.70	5,038	4,765	178.22	5,490	7,501
177.71	5,047	4,816	178.23	5,499	7,556
177.72	5,055	4,866	178.24	5,508	7,611
177.73	5,064	4,917	178.25	5,518	7,666
177.74	5,072	4,967	178.26	5,527	7,721
177.75	5,081	5,018	178.27	5,536	7,776
177.76	5,089	5,069	178.28	5,545	7,832
177.77	5,098	5,120	178.29	5,554	7,887
177.78	5,106	5,171	178.30	5,563	7,943
177.79	5,115	5,222	178.31	5,572	7,999
177.80	5,123	5,273	178.32	5,581	8,054
177.81	5,131	5,325	178.33	5,590	8,110
177.82	5,140	5,376	178.34	5,599	8,166
177.83	5,148	5,427	178.35	5,608	8,222
177.84	5,157	5,479	178.36	5,617	8,278
177.85	5,165	5,530	178.37	5,626	8,335
177.86	5,174	5,582	178.38	5,635	8,391
177.87	5,182	5,634	178.39	5,644	8,447
177.88	5,191	5,686	178.40	5,653	8,504
177.89	5,199	5,738	178.41	5,662	8,560
177.90	5,208	5,790	178.42	5,671	8,617

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.43	5,680	8,674	178.95	6,149	11,749
178.44	5,689	8,731	178.96	6,158	11,811
178.45	5,698	8,788	178.97	6,167	11,872
178.46	5,707	8,845	178.98	6,176	11,934
178.47	5,716	8,902	178.99	6,185	11,996
178.48	5,725	8,959	179.00	6,194	12,058
178.49	5,734	9,016	179.01	6,204	12,120
178.50	5,743	9,074	179.02	6,213	12,182
178.51	5,752	9,131	179.03	6,223	12,244
178.52	5,761	9,189	179.04	6,232	12,306
178.53	5,770	9,246	179.05	6,242	12,369
178.54	5,779	9,304	179.06	6,252	12,431
178.55	5,788	9,362	179.07	6,261	12,494
178.56	5,797	9,420	179.08	6,271	12,556
178.57	5,806	9,478	179.09	6,280	12,619
178.58	5,815	9,536	179.10	6,290	12,682
178.59	5,824	9,594	179.11	6,299	12,745
178.60	5,833	9,652	179.12	6,309	12,808
178.61	5,842	9,711	179.13	6,319	12,871
178.62	5,851	9,769	179.14	6,328	12,934
178.63	5,860	9,828	179.15	6,338	12,998
178.64	5,869	9,886	179.16	6,347	13,061
178.65	5,878	9,945	179.17	6,357	13,125
178.66	5,887	10,004	179.18	6,367	13,188
178.67	5,896	10,063	179.19	6,376	13,252
178.68	5,905	10,122	179.20	6,386	13,316
178.69	5,914	10,181	179.21	6,395	13,380
178.70	5,923	10,240	179.22	6,405	13,444
178.71	5,932	10,299	179.23	6,415	13,508
178.72	5,941	10,359	179.24	6,424	13,572
178.73	5,950	10,418	179.25	6,434	13,636
178.74	5,959	10,478	179.26	6,443	13,701
178.75	5,969	10,537	179.27	6,453	13,765
178.76	5,978	10,597	179.28	6,463	13,830
178.77	5,987	10,657	179.29	6,472	13,894
178.78	5,996	10,717	179.30	6,482	13,959
178.79	6,005	10,777	179.31	6,491	14,024
178.80	6,014	10,837	179.32	6,501	14,089
178.81	6,023	10,897	179.33	6,510	14,154
178.82	6,032	10,957	179.34	6,520	14,219
178.83	6,041	11,018	179.35	6,530	14,284
178.84	6,050	11,078	179.36	6,539	14,350
178.85	6,059	11,139	179.37	6,549	14,415
178.86	6,068	11,199	179.38	6,558	14,481
178.87	6,077	11,260	179.39	6,568	14,546
178.88	6,086	11,321	179.40	6,578	14,612
178.89	6,095	11,382	179.41	6,587	14,678
178.90	6,104	11,443	179.42	6,597	14,744
178.91	6,113	11,504	179.43	6,606	14,810
178.92	6,122	11,565	179.44	6,616	14,876
178.93	6,131	11,626	179.45	6,626	14,942
178.94	6,140	11,688	179.46	6,635	15,008

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.47	6,645	15,075	179.99	7,143	18,660
179.48	6,654	15,141	180.00	7,153	18,731
179.49	6,664	15,208	180.01	7,163	18,803
179.50	6,674	15,275	180.02	7,173	18,875
179.51	6,683	15,341	180.03	7,183	18,946
179.52	6,693	15,408	180.04	7,194	19,018
179.53	6,702	15,475	180.05	7,204	19,090
179.54	6,712	15,542	180.06	7,214	19,162
179.55	6,721	15,610	180.07	7,224	19,234
179.56	6,731	15,677	180.08	7,234	19,307
179.57	6,741	15,744	180.09	7,244	19,379
179.58	6,750	15,812	180.10	7,254	19,452
179.59	6,760	15,879	180.11	7,265	19,524
179.60	6,769	15,947	180.12	7,275	19,597
179.61	6,779	16,015	180.13	7,285	19,670
179.62	6,789	16,082	180.14	7,295	19,743
179.63	6,798	16,150	180.15	7,305	19,816
179.64	6,808	16,218	180.16	7,315	19,889
179.65	6,817	16,286	180.17	7,326	19,962
179.66	6,827	16,355	180.18	7,336	20,035
179.67	6,837	16,423	180.19	7,346	20,109
179.68	6,846	16,491	180.20	7,356	20,182
179.69	6,856	16,560	180.21	7,366	20,256
179.70	6,865	16,629	180.22	7,376	20,329
179.71	6,875	16,697	180.23	7,386	20,403
179.72	6,884	16,766	180.24	7,397	20,477
179.73	6,894	16,835	180.25	7,407	20,551
179.74	6,904	16,904	180.26	7,417	20,625
179.75	6,913	16,973	180.27	7,427	20,700
179.76	6,923	17,042	180.28	7,437	20,774
179.77	6,932	17,111	180.29	7,447	20,848
179.78	6,942	17,181	180.30	7,457	20,923
179.79	6,952	17,250	180.31	7,468	20,997
179.80	6,961	17,320	180.32	7,478	21,072
179.81	6,971	17,390	180.33	7,488	21,147
179.82	6,980	17,459	180.34	7,498	21,222
179.83	6,990	17,529	180.35	7,508	21,297
179.84	7,000	17,599	180.36	7,518	21,372
179.85	7,009	17,669	180.37	7,529	21,447
179.86	7,019	17,739	180.38	7,539	21,523
179.87	7,028	17,809	180.39	7,549	21,598
179.88	7,038	17,880	180.40	7,559	21,674
179.89	7,048	17,950	180.41	7,569	21,749
179.90	7,057	18,021	180.42	7,579	21,825
179.91	7,067	18,091	180.43	7,589	21,901
179.92	7,076	18,162	180.44	7,600	21,977
179.93	7,086	18,233	180.45	7,610	22,053
179.94	7,095	18,304	180.46	7,620	22,129
179.95	7,105	18,375	180.47	7,630	22,205
179.96	7,115	18,446	180.48	7,640	22,282
179.97	7,124	18,517	180.49	7,650	22,358
179.98	7,134	18,588	180.50	7,661	22,435

Stage-Area-Storage for Pond B-43: Basin #43 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.51	7,671	22,511
180.52	7,681	22,588
180.53	7,691	22,665
180.54	7,701	22,742
180.55	7,711	22,819
180.56	7,721	22,896
180.57	7,732	22,973
180.58	7,742	23,051
180.59	7,752	23,128
180.60	7,762	23,206
180.61	7,772	23,283
180.62	7,782	23,361
180.63	7,792	23,439
180.64	7,803	23,517
180.65	7,813	23,595
180.66	7,823	23,673
180.67	7,833	23,752
180.68	7,843	23,830
180.69	7,853	23,908
180.70	7,863	23,987
180.71	7,874	24,066
180.72	7,884	24,145
180.73	7,894	24,223
180.74	7,904	24,302
180.75	7,914	24,381
180.76	7,924	24,461
180.77	7,935	24,540
180.78	7,945	24,619
180.79	7,955	24,699
180.80	7,965	24,778
180.81	7,975	24,858
180.82	7,985	24,938
180.83	7,995	25,018
180.84	8,006	25,098
180.85	8,016	25,178
180.86	8,026	25,258
180.87	8,036	25,339
180.88	8,046	25,419
180.89	8,056	25,499
180.90	8,067	25,580
180.91	8,077	25,661
180.92	8,087	25,742
180.93	8,097	25,823
180.94	8,107	25,904
180.95	8,117	25,985
180.96	8,127	26,066
180.97	8,138	26,147
180.98	8,148	26,229
180.99	8,158	26,310
181.00	**8,168**	**26,392**

Summary for Pond B-44: Basin #44

Inflow Area = 1.184 ac, 34.71% Impervious, Inflow Depth = 3.95" for Future 10 yr event
Inflow = 4.81 cfs @ 12.17 hrs, Volume= 0.389 af
Outflow = 0.25 cfs @ 14.27 hrs, Volume= 0.272 af, Atten= 95%, Lag= 125.7 min
Primary = 0.25 cfs @ 14.27 hrs, Volume= 0.272 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 167.53' @ 14.27 hrs Surf.Area= 6,990 sf Storage= 11,683 cf

Plug-Flow detention time= 662.8 min calculated for 0.272 af (70% of inflow)
Center-of-Mass det. time= 563.1 min (1,357.1 - 794.0)

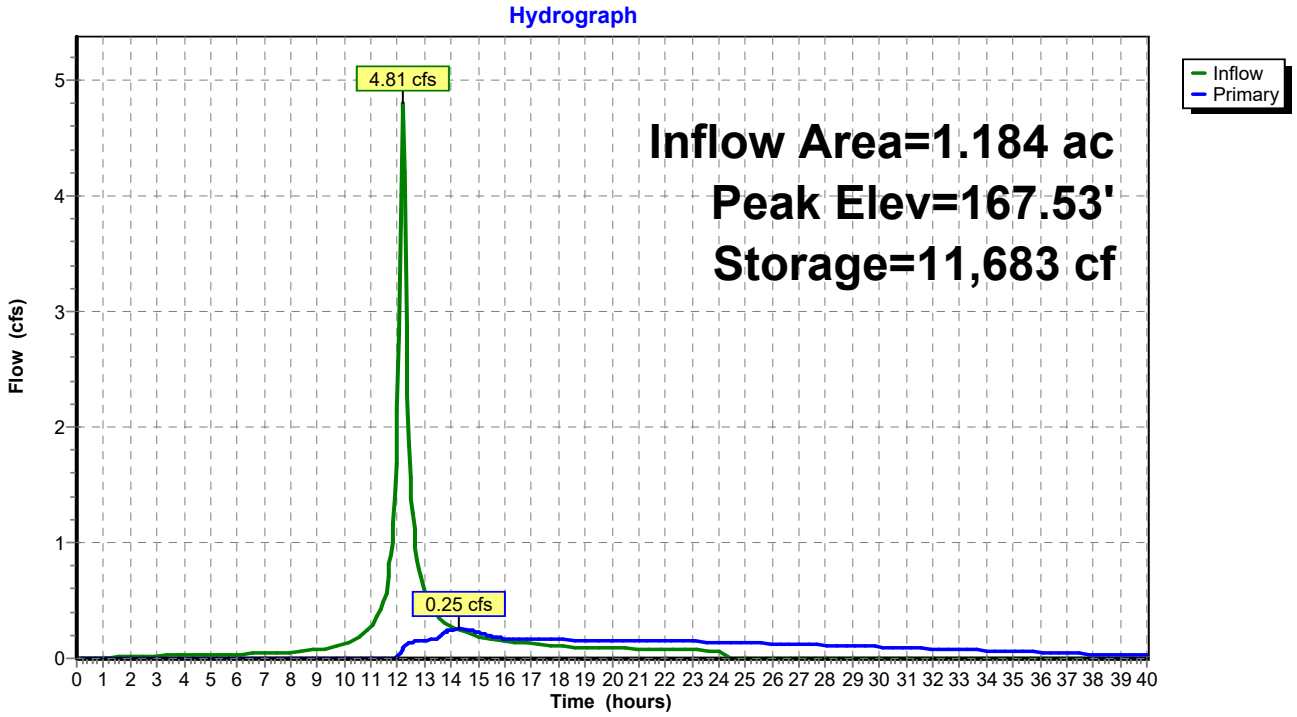
Volume	Invert	Avail.Storage	Storage Description
#1	165.30'	31,812 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
165.30	0	0	0
166.00	5,690	1,991	1,991
167.00	6,518	6,104	8,095
168.00	7,407	6,963	15,058
169.00	8,360	7,884	22,941
170.00	9,381	8,871	31,812

Device	Routing	Invert	Outlet Devices
#1	Primary	165.30'	**18.0" Round Culvert** L= 44.0' Ke= 0.500 Inlet / Outlet Invert= 165.30' / 164.00' S= 0.0295 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	166.41'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	167.50'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	168.98'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.24 cfs @ 14.27 hrs HW=167.53' (Free Discharge)
- **1=Culvert** (Passes 0.24 cfs of 10.36 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.17 cfs @ 4.86 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.07 cfs @ 0.58 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-44: Basin #44



Stage-Discharge for Pond B-44: Basin #44

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
165.30	0.00	165.82	0.00	166.34	0.00	166.86	0.10
165.31	0.00	165.83	0.00	166.35	0.00	166.87	0.10
165.32	0.00	165.84	0.00	166.36	0.00	166.88	0.10
165.33	0.00	165.85	0.00	166.37	0.00	166.89	0.10
165.34	0.00	165.86	0.00	166.38	0.00	166.90	0.10
165.35	0.00	165.87	0.00	166.39	0.00	166.91	0.10
165.36	0.00	165.88	0.00	166.40	0.00	166.92	0.10
165.37	0.00	165.89	0.00	166.41	0.00	166.93	0.11
165.38	0.00	165.90	0.00	166.42	0.00	166.94	0.11
165.39	0.00	165.91	0.00	166.43	0.00	166.95	0.11
165.40	0.00	165.92	0.00	166.44	0.00	166.96	0.11
165.41	0.00	165.93	0.00	166.45	0.00	166.97	0.11
165.42	0.00	165.94	0.00	166.46	0.00	166.98	0.11
165.43	0.00	165.95	0.00	166.47	0.01	166.99	0.11
165.44	0.00	165.96	0.00	166.48	0.01	167.00	0.11
165.45	0.00	165.97	0.00	166.49	0.01	167.01	0.12
165.46	0.00	165.98	0.00	166.50	0.01	167.02	0.12
165.47	0.00	165.99	0.00	166.51	0.02	167.03	0.12
165.48	0.00	166.00	0.00	166.52	0.02	167.04	0.12
165.49	0.00	166.01	0.00	166.53	0.02	167.05	0.12
165.50	0.00	166.02	0.00	166.54	0.03	167.06	0.12
165.51	0.00	166.03	0.00	166.55	0.03	167.07	0.12
165.52	0.00	166.04	0.00	166.56	0.03	167.08	0.12
165.53	0.00	166.05	0.00	166.57	0.04	167.09	0.12
165.54	0.00	166.06	0.00	166.58	0.04	167.10	0.13
165.55	0.00	166.07	0.00	166.59	0.05	167.11	0.13
165.56	0.00	166.08	0.00	166.60	0.05	167.12	0.13
165.57	0.00	166.09	0.00	166.61	0.05	167.13	0.13
165.58	0.00	166.10	0.00	166.62	0.05	167.14	0.13
165.59	0.00	166.11	0.00	166.63	0.06	167.15	0.13
165.60	0.00	166.12	0.00	166.64	0.06	167.16	0.13
165.61	0.00	166.13	0.00	166.65	0.06	167.17	0.13
165.62	0.00	166.14	0.00	166.66	0.06	167.18	0.13
165.63	0.00	166.15	0.00	166.67	0.06	167.19	0.13
165.64	0.00	166.16	0.00	166.68	0.07	167.20	0.14
165.65	0.00	166.17	0.00	166.69	0.07	167.21	0.14
165.66	0.00	166.18	0.00	166.70	0.07	167.22	0.14
165.67	0.00	166.19	0.00	166.71	0.07	167.23	0.14
165.68	0.00	166.20	0.00	166.72	0.07	167.24	0.14
165.69	0.00	166.21	0.00	166.73	0.08	167.25	0.14
165.70	0.00	166.22	0.00	166.74	0.08	167.26	0.14
165.71	0.00	166.23	0.00	166.75	0.08	167.27	0.14
165.72	0.00	166.24	0.00	166.76	0.08	167.28	0.14
165.73	0.00	166.25	0.00	166.77	0.08	167.29	0.14
165.74	0.00	166.26	0.00	166.78	0.08	167.30	0.15
165.75	0.00	166.27	0.00	166.79	0.09	167.31	0.15
165.76	0.00	166.28	0.00	166.80	0.09	167.32	0.15
165.77	0.00	166.29	0.00	166.81	0.09	167.33	0.15
165.78	0.00	166.30	0.00	166.82	0.09	167.34	0.15
165.79	0.00	166.31	0.00	166.83	0.09	167.35	0.15
165.80	0.00	166.32	0.00	166.84	0.09	167.36	0.15
165.81	0.00	166.33	0.00	166.85	0.10	167.37	0.15

Stage-Discharge for Pond B-44: Basin #44 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
167.38	0.15	167.90	3.44	168.42	11.24	168.94	14.46
167.39	0.15	167.91	3.56	168.43	11.41	168.95	14.49
167.40	0.15	167.92	3.68	168.44	11.59	168.96	14.51
167.41	0.16	167.93	3.80	168.45	11.76	168.97	14.54
167.42	0.16	167.94	3.93	168.46	11.94	168.98	14.56
167.43	0.16	167.95	4.06	168.47	12.12	168.99	14.71
167.44	0.16	167.96	4.18	168.48	12.30	169.00	14.95
167.45	0.16	167.97	4.31	168.49	12.48	169.01	15.25
167.46	0.16	167.98	4.44	168.50	12.66	169.02	15.60
167.47	0.16	167.99	4.58	168.51	12.84	169.03	16.00
167.48	0.16	168.00	4.71	168.52	13.02	169.04	16.44
167.49	0.16	168.01	4.84	168.53	13.20	169.05	16.91
167.50	0.16	168.02	4.98	168.54	13.38	169.06	17.42
167.51	0.18	168.03	5.12	168.55	13.45	169.07	17.96
167.52	0.20	168.04	5.25	168.56	13.48	169.08	18.53
167.53	0.23	168.05	5.39	168.57	13.51	169.09	19.13
167.54	0.27	168.06	5.53	168.58	13.53	169.10	19.75
167.55	0.31	168.07	5.67	168.59	13.56	169.11	20.40
167.56	0.36	168.08	5.82	168.60	13.59	169.12	21.08
167.57	0.41	168.09	5.96	168.61	13.61	169.13	21.78
167.58	0.46	168.10	6.10	168.62	13.64	169.14	22.50
167.59	0.52	168.11	6.25	168.63	13.67	169.15	23.25
167.60	0.58	168.12	6.40	168.64	13.69	169.16	24.02
167.61	0.65	168.13	6.54	168.65	13.72	169.17	24.81
167.62	0.71	168.14	6.69	168.66	13.75	169.18	25.62
167.63	0.78	168.15	6.84	168.67	13.77	169.19	26.49
167.64	0.85	168.16	6.99	168.68	13.80	169.20	27.39
167.65	0.93	168.17	7.14	168.69	13.83	169.21	28.31
167.66	1.01	168.18	7.30	168.70	13.85	169.22	29.25
167.67	1.09	168.19	7.45	168.71	13.88	169.23	30.23
167.68	1.17	168.20	7.61	168.72	13.90	169.24	31.22
167.69	1.25	168.21	7.76	168.73	13.93	169.25	32.25
167.70	1.34	168.22	7.92	168.74	13.96	169.26	33.29
167.71	1.43	168.23	8.08	168.75	13.98	169.27	34.36
167.72	1.52	168.24	8.23	168.76	14.01	169.28	35.46
167.73	1.61	168.25	8.39	168.77	14.03	169.29	36.58
167.74	1.70	168.26	8.55	168.78	14.06	169.30	37.73
167.75	1.80	168.27	8.72	168.79	14.08	169.31	38.90
167.76	1.89	168.28	8.88	168.80	14.11	169.32	40.09
167.77	1.99	168.29	9.04	168.81	14.14	169.33	41.31
167.78	2.10	168.30	9.20	168.82	14.16	169.34	42.55
167.79	2.20	168.31	9.37	168.83	14.19	169.35	43.81
167.80	2.30	168.32	9.53	168.84	14.21	169.36	45.10
167.81	2.41	168.33	9.70	168.85	14.24	169.37	46.42
167.82	2.52	168.34	9.87	168.86	14.26	169.38	47.76
167.83	2.63	168.35	10.04	168.87	14.29	169.39	49.15
167.84	2.74	168.36	10.21	168.88	14.31	169.40	50.56
167.85	2.85	168.37	10.38	168.89	14.34	169.41	52.00
167.86	2.96	168.38	10.55	168.90	14.36	169.42	53.47
167.87	3.08	168.39	10.72	168.91	14.39	169.43	54.96
167.88	3.20	168.40	10.89	168.92	14.41	169.44	56.48
167.89	3.32	168.41	11.06	168.93	14.44	169.45	58.03

Stage-Discharge for Pond B-44: Basin #44 (continued)

Elevation (feet)	Primary (cfs)
169.46	59.60
169.47	61.20
169.48	62.82
169.49	64.47
169.50	66.15
169.51	67.86
169.52	69.59
169.53	71.35
169.54	73.13
169.55	74.94
169.56	76.78
169.57	78.64
169.58	80.54
169.59	82.19
169.60	83.85
169.61	85.52
169.62	87.21
169.63	88.92
169.64	90.63
169.65	92.36
169.66	94.11
169.67	95.86
169.68	97.63
169.69	99.41
169.70	101.20
169.71	103.01
169.72	104.83
169.73	106.66
169.74	108.50
169.75	110.36
169.76	112.23
169.77	114.11
169.78	116.00
169.79	117.94
169.80	119.89
169.81	121.86
169.82	123.84
169.83	125.84
169.84	127.85
169.85	129.87
169.86	131.90
169.87	133.95
169.88	136.01
169.89	138.08
169.90	140.16
169.91	142.26
169.92	144.37
169.93	146.49
169.94	148.63
169.95	150.78
169.96	152.94
169.97	155.11
169.98	157.30
169.99	159.45
170.00	**161.60**

Stage-Area-Storage for Pond B-44: Basin #44

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
165.30	0	0
165.31	81	0
165.32	163	2
165.33	244	4
165.34	325	7
165.35	406	10
165.36	488	15
165.37	569	20
165.38	650	26
165.39	732	33
165.40	813	41
165.41	894	49
165.42	975	59
165.43	1,057	69
165.44	1,138	80
165.45	1,219	91
165.46	1,301	104
165.47	1,382	117
165.48	1,463	132
165.49	1,544	147
165.50	1,626	163
165.51	1,707	179
165.52	1,788	197
165.53	1,870	215
165.54	1,951	234
165.55	2,032	254
165.56	2,113	275
165.57	2,195	296
165.58	2,276	319
165.59	2,357	342
165.60	2,439	366
165.61	2,520	391
165.62	2,601	416
165.63	2,682	443
165.64	2,764	470
165.65	2,845	498
165.66	2,926	527
165.67	3,008	556
165.68	3,089	587
165.69	3,170	618
165.70	3,251	650
165.71	3,333	683
165.72	3,414	717
165.73	3,495	751
165.74	3,577	787
165.75	3,658	823
165.76	3,739	860
165.77	3,820	898
165.78	3,902	936
165.79	3,983	976
165.80	4,064	1,016
165.81	4,146	1,057
165.82	4,227	1,099
165.83	4,308	1,142
165.84	4,389	1,185
165.85	4,471	1,229
165.86	4,552	1,275
165.87	4,633	1,320
165.88	4,715	1,367
165.89	4,796	1,415
165.90	4,877	1,463
165.91	4,958	1,512
165.92	5,040	1,562
165.93	5,121	1,613
165.94	5,202	1,665
165.95	5,284	1,717
165.96	5,365	1,770
165.97	5,446	1,824
165.98	5,527	1,879
165.99	5,609	1,935
166.00	5,690	1,991
166.01	5,698	2,048
166.02	5,707	2,105
166.03	5,715	2,163
166.04	5,723	2,220
166.05	5,731	2,277
166.06	5,740	2,334
166.07	5,748	2,392
166.08	5,756	2,449
166.09	5,765	2,507
166.10	5,773	2,565
166.11	5,781	2,622
166.12	5,789	2,680
166.13	5,798	2,738
166.14	5,806	2,796
166.15	5,814	2,854
166.16	5,822	2,912
166.17	5,831	2,971
166.18	5,839	3,029
166.19	5,847	3,088
166.20	5,856	3,146
166.21	5,864	3,205
166.22	5,872	3,263
166.23	5,880	3,322
166.24	5,889	3,381
166.25	5,897	3,440
166.26	5,905	3,499
166.27	5,914	3,558
166.28	5,922	3,617
166.29	5,930	3,676
166.30	5,938	3,736
166.31	5,947	3,795
166.32	5,955	3,855
166.33	5,963	3,914

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
166.34	5,972	3,974	166.86	6,402	7,191
166.35	5,980	4,034	166.87	6,410	7,255
166.36	5,988	4,094	166.88	6,419	7,319
166.37	5,996	4,153	166.89	6,427	7,384
166.38	6,005	4,213	166.90	6,435	7,448
166.39	6,013	4,274	166.91	6,443	7,512
166.40	6,021	4,334	166.92	6,452	7,577
166.41	6,029	4,394	166.93	6,460	7,641
166.42	6,038	4,454	166.94	6,468	7,706
166.43	6,046	4,515	166.95	6,477	7,771
166.44	6,054	4,575	166.96	6,485	7,835
166.45	6,063	4,636	166.97	6,493	7,900
166.46	6,071	4,697	166.98	6,501	7,965
166.47	6,079	4,757	166.99	6,510	8,030
166.48	6,087	4,818	167.00	6,518	8,095
166.49	6,096	4,879	167.01	6,527	8,161
166.50	6,104	4,940	167.02	6,536	8,226
166.51	6,112	5,001	167.03	6,545	8,291
166.52	6,121	5,062	167.04	6,554	8,357
166.53	6,129	5,123	167.05	6,562	8,423
166.54	6,137	5,185	167.06	6,571	8,488
166.55	6,145	5,246	167.07	6,580	8,554
166.56	6,154	5,308	167.08	6,589	8,620
166.57	6,162	5,369	167.09	6,598	8,686
166.58	6,170	5,431	167.10	6,607	8,752
166.59	6,179	5,493	167.11	6,616	8,818
166.60	6,187	5,555	167.12	6,625	8,884
166.61	6,195	5,616	167.13	6,634	8,950
166.62	6,203	5,678	167.14	6,642	9,017
166.63	6,212	5,741	167.15	6,651	9,083
166.64	6,220	5,803	167.16	6,660	9,150
166.65	6,228	5,865	167.17	6,669	9,216
166.66	6,236	5,927	167.18	6,678	9,283
166.67	6,245	5,990	167.19	6,687	9,350
166.68	6,253	6,052	167.20	6,696	9,417
166.69	6,261	6,115	167.21	6,705	9,484
166.70	6,270	6,177	167.22	6,714	9,551
166.71	6,278	6,240	167.23	6,722	9,618
166.72	6,286	6,303	167.24	6,731	9,685
166.73	6,294	6,366	167.25	6,740	9,753
166.74	6,303	6,429	167.26	6,749	9,820
166.75	6,311	6,492	167.27	6,758	9,888
166.76	6,319	6,555	167.28	6,767	9,955
166.77	6,328	6,618	167.29	6,776	10,023
166.78	6,336	6,682	167.30	6,785	10,091
166.79	6,344	6,745	167.31	6,794	10,159
166.80	6,352	6,808	167.32	6,802	10,227
166.81	6,361	6,872	167.33	6,811	10,295
166.82	6,369	6,936	167.34	6,820	10,363
166.83	6,377	6,999	167.35	6,829	10,431
166.84	6,386	7,063	167.36	6,838	10,500
166.85	6,394	7,127	167.37	6,847	10,568

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
167.38	6,856	10,637	167.90	7,318	14,322
167.39	6,865	10,705	167.91	7,327	14,395
167.40	6,874	10,774	167.92	7,336	14,468
167.41	6,882	10,843	167.93	7,345	14,542
167.42	6,891	10,911	167.94	7,354	14,615
167.43	6,900	10,980	167.95	7,363	14,689
167.44	6,909	11,049	167.96	7,371	14,762
167.45	6,918	11,119	167.97	7,380	14,836
167.46	6,927	11,188	167.98	7,389	14,910
167.47	6,936	11,257	167.99	7,398	14,984
167.48	6,945	11,327	168.00	7,407	15,058
167.49	6,954	11,396	168.01	7,417	15,132
167.50	6,963	11,466	168.02	7,426	15,206
167.51	6,971	11,535	168.03	7,436	15,281
167.52	6,980	11,605	168.04	7,445	15,355
167.53	6,989	11,675	168.05	7,455	15,430
167.54	6,998	11,745	168.06	7,464	15,504
167.55	7,007	11,815	168.07	7,474	15,579
167.56	7,016	11,885	168.08	7,483	15,654
167.57	7,025	11,955	168.09	7,493	15,728
167.58	7,034	12,025	168.10	7,502	15,803
167.59	7,043	12,096	168.11	7,512	15,879
167.60	7,051	12,166	168.12	7,521	15,954
167.61	7,060	12,237	168.13	7,531	16,029
167.62	7,069	12,308	168.14	7,540	16,104
167.63	7,078	12,378	168.15	7,550	16,180
167.64	7,087	12,449	168.16	7,559	16,255
167.65	7,096	12,520	168.17	7,569	16,331
167.66	7,105	12,591	168.18	7,579	16,407
167.67	7,114	12,662	168.19	7,588	16,483
167.68	7,123	12,733	168.20	7,598	16,558
167.69	7,131	12,805	168.21	7,607	16,634
167.70	7,140	12,876	168.22	7,617	16,711
167.71	7,149	12,947	168.23	7,626	16,787
167.72	7,158	13,019	168.24	7,636	16,863
167.73	7,167	13,091	168.25	7,645	16,940
167.74	7,176	13,162	168.26	7,655	17,016
167.75	7,185	13,234	168.27	7,664	17,093
167.76	7,194	13,306	168.28	7,674	17,169
167.77	7,203	13,378	168.29	7,683	17,246
167.78	7,211	13,450	168.30	7,693	17,323
167.79	7,220	13,522	168.31	7,702	17,400
167.80	7,229	13,594	168.32	7,712	17,477
167.81	7,238	13,667	168.33	7,721	17,554
167.82	7,247	13,739	168.34	7,731	17,631
167.83	7,256	13,812	168.35	7,741	17,709
167.84	7,265	13,884	168.36	7,750	17,786
167.85	7,274	13,957	168.37	7,760	17,864
167.86	7,283	14,030	168.38	7,769	17,941
167.87	7,291	14,103	168.39	7,779	18,019
167.88	7,300	14,176	168.40	7,788	18,097
167.89	7,309	14,249	168.41	7,798	18,175

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
168.42	7,807	18,253	168.94	8,303	22,442
168.43	7,817	18,331	168.95	8,312	22,525
168.44	7,826	18,409	168.96	8,322	22,608
168.45	7,836	18,488	168.97	8,331	22,691
168.46	7,845	18,566	168.98	8,341	22,774
168.47	7,855	18,645	168.99	8,350	22,858
168.48	7,864	18,723	169.00	8,360	22,941
168.49	7,874	18,802	169.01	8,370	23,025
168.50	7,884	18,881	169.02	8,380	23,109
168.51	7,893	18,960	169.03	8,391	23,193
168.52	7,903	19,038	169.04	8,401	23,277
168.53	7,912	19,118	169.05	8,411	23,361
168.54	7,922	19,197	169.06	8,421	23,445
168.55	7,931	19,276	169.07	8,431	23,529
168.56	7,941	19,355	169.08	8,442	23,614
168.57	7,950	19,435	169.09	8,452	23,698
168.58	7,960	19,514	169.10	8,462	23,783
168.59	7,969	19,594	169.11	8,472	23,867
168.60	7,979	19,674	169.12	8,483	23,952
168.61	7,988	19,754	169.13	8,493	24,037
168.62	7,998	19,834	169.14	8,503	24,122
168.63	8,007	19,914	169.15	8,513	24,207
168.64	8,017	19,994	169.16	8,523	24,292
168.65	8,026	20,074	169.17	8,534	24,377
168.66	8,036	20,154	169.18	8,544	24,463
168.67	8,046	20,235	169.19	8,554	24,548
168.68	8,055	20,315	169.20	8,564	24,634
168.69	8,065	20,396	169.21	8,574	24,720
168.70	8,074	20,476	169.22	8,585	24,805
168.71	8,084	20,557	169.23	8,595	24,891
168.72	8,093	20,638	169.24	8,605	24,977
168.73	8,103	20,719	169.25	8,615	25,063
168.74	8,112	20,800	169.26	8,625	25,150
168.75	8,122	20,881	169.27	8,636	25,236
168.76	8,131	20,963	169.28	8,646	25,322
168.77	8,141	21,044	169.29	8,656	25,409
168.78	8,150	21,125	169.30	8,666	25,495
168.79	8,160	21,207	169.31	8,677	25,582
168.80	8,169	21,289	169.32	8,687	25,669
168.81	8,179	21,370	169.33	8,697	25,756
168.82	8,188	21,452	169.34	8,707	25,843
168.83	8,198	21,534	169.35	8,717	25,930
168.84	8,208	21,616	169.36	8,728	26,017
168.85	8,217	21,698	169.37	8,738	26,105
168.86	8,227	21,780	169.38	8,748	26,192
168.87	8,236	21,863	169.39	8,758	26,280
168.88	8,246	21,945	169.40	8,768	26,367
168.89	8,255	22,028	169.41	8,779	26,455
168.90	8,265	22,110	169.42	8,789	26,543
168.91	8,274	22,193	169.43	8,799	26,631
168.92	8,284	22,276	169.44	8,809	26,719
168.93	8,293	22,359	169.45	8,819	26,807

Stage-Area-Storage for Pond B-44: Basin #44 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.46	8,830	26,895
169.47	8,840	26,983
169.48	8,850	27,072
169.49	8,860	27,160
169.50	8,871	27,249
169.51	8,881	27,338
169.52	8,891	27,427
169.53	8,901	27,516
169.54	8,911	27,605
169.55	8,922	27,694
169.56	8,932	27,783
169.57	8,942	27,873
169.58	8,952	27,962
169.59	8,962	28,052
169.60	8,973	28,141
169.61	8,983	28,231
169.62	8,993	28,321
169.63	9,003	28,411
169.64	9,013	28,501
169.65	9,024	28,591
169.66	9,034	28,681
169.67	9,044	28,772
169.68	9,054	28,862
169.69	9,064	28,953
169.70	9,075	29,044
169.71	9,085	29,134
169.72	9,095	29,225
169.73	9,105	29,316
169.74	9,116	29,407
169.75	9,126	29,499
169.76	9,136	29,590
169.77	9,146	29,681
169.78	9,156	29,773
169.79	9,167	29,865
169.80	9,177	29,956
169.81	9,187	30,048
169.82	9,197	30,140
169.83	9,207	30,232
169.84	9,218	30,324
169.85	9,228	30,416
169.86	9,238	30,509
169.87	9,248	30,601
169.88	9,258	30,694
169.89	9,269	30,786
169.90	9,279	30,879
169.91	9,289	30,972
169.92	9,299	31,065
169.93	9,310	31,158
169.94	9,320	31,251
169.95	9,330	31,344
169.96	9,340	31,438
169.97	9,350	31,531
169.98	9,361	31,625
169.99	9,371	31,718
170.00	**9,381**	**31,812**

Summary for Pond B-45: Basin #45

Inflow Area = 2.294 ac, 62.82% Impervious, Inflow Depth = 4.66" for Future 10 yr event
Inflow = 10.57 cfs @ 12.17 hrs, Volume= 0.891 af
Outflow = 7.14 cfs @ 12.28 hrs, Volume= 0.731 af, Atten= 32%, Lag= 6.5 min
Primary = 7.14 cfs @ 12.28 hrs, Volume= 0.731 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 169.33' @ 12.28 hrs Surf.Area= 5,799 sf Storage= 17,216 cf

Plug-Flow detention time= 336.6 min calculated for 0.730 af (82% of inflow)
Center-of-Mass det. time= 261.0 min (1,032.2 - 771.2)

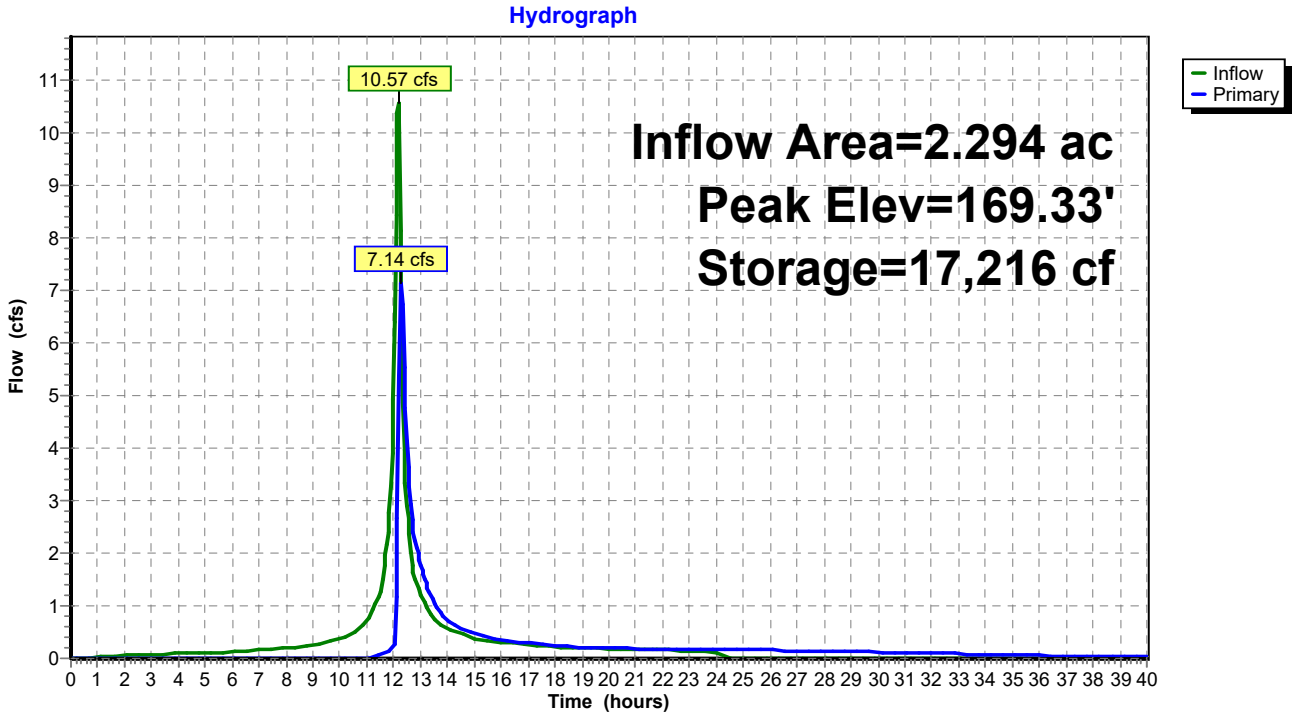
Volume	Invert	Avail.Storage	Storage Description
#1	165.30'	21,270 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
165.30	0	0	0
166.00	3,797	1,329	1,329
167.00	4,370	4,084	5,412
168.00	4,967	4,669	10,081
169.00	5,588	5,278	15,358
170.00	6,235	5,912	21,270

Device	Routing	Invert	Outlet Devices
#1	Primary	165.30'	**18.0" Round Culvert** L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 165.30' / 164.00' S= 0.0325 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	167.25'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	168.50'	**2.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Device 1	169.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#5	Primary	169.97'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=7.04 cfs @ 12.28 hrs HW=169.32' (Free Discharge)
- **1=Culvert** (Passes 7.04 cfs of 15.39 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.23 cfs @ 6.75 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 4.47 cfs @ 2.96 fps)
  - **4=Sharp-Crested Rectangular Weir** (Weir Controls 2.34 cfs @ 1.85 fps)
- **5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-45: Basin #45



Stage-Discharge for Pond B-45: Basin #45

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
165.30	0.00	165.82	0.00	166.34	0.00	166.86	0.00
165.31	0.00	165.83	0.00	166.35	0.00	166.87	0.00
165.32	0.00	165.84	0.00	166.36	0.00	166.88	0.00
165.33	0.00	165.85	0.00	166.37	0.00	166.89	0.00
165.34	0.00	165.86	0.00	166.38	0.00	166.90	0.00
165.35	0.00	165.87	0.00	166.39	0.00	166.91	0.00
165.36	0.00	165.88	0.00	166.40	0.00	166.92	0.00
165.37	0.00	165.89	0.00	166.41	0.00	166.93	0.00
165.38	0.00	165.90	0.00	166.42	0.00	166.94	0.00
165.39	0.00	165.91	0.00	166.43	0.00	166.95	0.00
165.40	0.00	165.92	0.00	166.44	0.00	166.96	0.00
165.41	0.00	165.93	0.00	166.45	0.00	166.97	0.00
165.42	0.00	165.94	0.00	166.46	0.00	166.98	0.00
165.43	0.00	165.95	0.00	166.47	0.00	166.99	0.00
165.44	0.00	165.96	0.00	166.48	0.00	167.00	0.00
165.45	0.00	165.97	0.00	166.49	0.00	167.01	0.00
165.46	0.00	165.98	0.00	166.50	0.00	167.02	0.00
165.47	0.00	165.99	0.00	166.51	0.00	167.03	0.00
165.48	0.00	166.00	0.00	166.52	0.00	167.04	0.00
165.49	0.00	166.01	0.00	166.53	0.00	167.05	0.00
165.50	0.00	166.02	0.00	166.54	0.00	167.06	0.00
165.51	0.00	166.03	0.00	166.55	0.00	167.07	0.00
165.52	0.00	166.04	0.00	166.56	0.00	167.08	0.00
165.53	0.00	166.05	0.00	166.57	0.00	167.09	0.00
165.54	0.00	166.06	0.00	166.58	0.00	167.10	0.00
165.55	0.00	166.07	0.00	166.59	0.00	167.11	0.00
165.56	0.00	166.08	0.00	166.60	0.00	167.12	0.00
165.57	0.00	166.09	0.00	166.61	0.00	167.13	0.00
165.58	0.00	166.10	0.00	166.62	0.00	167.14	0.00
165.59	0.00	166.11	0.00	166.63	0.00	167.15	0.00
165.60	0.00	166.12	0.00	166.64	0.00	167.16	0.00
165.61	0.00	166.13	0.00	166.65	0.00	167.17	0.00
165.62	0.00	166.14	0.00	166.66	0.00	167.18	0.00
165.63	0.00	166.15	0.00	166.67	0.00	167.19	0.00
165.64	0.00	166.16	0.00	166.68	0.00	167.20	0.00
165.65	0.00	166.17	0.00	166.69	0.00	167.21	0.00
165.66	0.00	166.18	0.00	166.70	0.00	167.22	0.00
165.67	0.00	166.19	0.00	166.71	0.00	167.23	0.00
165.68	0.00	166.20	0.00	166.72	0.00	167.24	0.00
165.69	0.00	166.21	0.00	166.73	0.00	167.25	0.00
165.70	0.00	166.22	0.00	166.74	0.00	167.26	0.00
165.71	0.00	166.23	0.00	166.75	0.00	167.27	0.00
165.72	0.00	166.24	0.00	166.76	0.00	167.28	0.00
165.73	0.00	166.25	0.00	166.77	0.00	167.29	0.00
165.74	0.00	166.26	0.00	166.78	0.00	167.30	0.00
165.75	0.00	166.27	0.00	166.79	0.00	167.31	0.01
165.76	0.00	166.28	0.00	166.80	0.00	167.32	0.01
165.77	0.00	166.29	0.00	166.81	0.00	167.33	0.01
165.78	0.00	166.30	0.00	166.82	0.00	167.34	0.01
165.79	0.00	166.31	0.00	166.83	0.00	167.35	0.02
165.80	0.00	166.32	0.00	166.84	0.00	167.36	0.02
165.81	0.00	166.33	0.00	166.85	0.00	167.37	0.02

Stage-Discharge for Pond B-45: Basin #45 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
167.38	0.03	167.90	0.12	168.42	0.17	168.94	2.03
167.39	0.03	167.91	0.12	168.43	0.17	168.95	2.09
167.40	0.03	167.92	0.12	168.44	0.17	168.96	2.15
167.41	0.04	167.93	0.12	168.45	0.17	168.97	2.22
167.42	0.04	167.94	0.13	168.46	0.17	168.98	2.28
167.43	0.05	167.95	0.13	168.47	0.17	168.99	2.34
167.44	0.05	167.96	0.13	168.48	0.17	169.00	2.41
167.45	0.05	167.97	0.13	168.49	0.17	169.01	2.48
167.46	0.05	167.98	0.13	168.50	0.18	169.02	2.57
167.47	0.06	167.99	0.13	168.51	0.18	169.03	2.67
167.48	0.06	168.00	0.13	168.52	0.20	169.04	2.77
167.49	0.06	168.01	0.13	168.53	0.21	169.05	2.88
167.50	0.06	168.02	0.13	168.54	0.23	169.06	2.99
167.51	0.06	168.03	0.13	168.55	0.25	169.07	3.11
167.52	0.07	168.04	0.14	168.56	0.28	169.08	3.23
167.53	0.07	168.05	0.14	168.57	0.30	169.09	3.36
167.54	0.07	168.06	0.14	168.58	0.33	169.10	3.49
167.55	0.07	168.07	0.14	168.59	0.36	169.11	3.62
167.56	0.07	168.08	0.14	168.60	0.39	169.12	3.75
167.57	0.08	168.09	0.14	168.61	0.42	169.13	3.89
167.58	0.08	168.10	0.14	168.62	0.45	169.14	4.03
167.59	0.08	168.11	0.14	168.63	0.49	169.15	4.18
167.60	0.08	168.12	0.14	168.64	0.52	169.16	4.33
167.61	0.08	168.13	0.14	168.65	0.56	169.17	4.48
167.62	0.08	168.14	0.15	168.66	0.60	169.18	4.63
167.63	0.09	168.15	0.15	168.67	0.64	169.19	4.79
167.64	0.09	168.16	0.15	168.68	0.68	169.20	4.94
167.65	0.09	168.17	0.15	168.69	0.72	169.21	5.10
167.66	0.09	168.18	0.15	168.70	0.76	169.22	5.27
167.67	0.09	168.19	0.15	168.71	0.81	169.23	5.43
167.68	0.09	168.20	0.15	168.72	0.85	169.24	5.60
167.69	0.10	168.21	0.15	168.73	0.90	169.25	5.77
167.70	0.10	168.22	0.15	168.74	0.94	169.26	5.94
167.71	0.10	168.23	0.15	168.75	0.99	169.27	6.12
167.72	0.10	168.24	0.15	168.76	1.04	169.28	6.29
167.73	0.10	168.25	0.16	168.77	1.09	169.29	6.47
167.74	0.10	168.26	0.16	168.78	1.14	169.30	6.65
167.75	0.10	168.27	0.16	168.79	1.19	169.31	6.83
167.76	0.10	168.28	0.16	168.80	1.24	169.32	7.02
167.77	0.11	168.29	0.16	168.81	1.29	169.33	7.20
167.78	0.11	168.30	0.16	168.82	1.34	169.34	7.39
167.79	0.11	168.31	0.16	168.83	1.40	169.35	7.58
167.80	0.11	168.32	0.16	168.84	1.45	169.36	7.77
167.81	0.11	168.33	0.16	168.85	1.51	169.37	7.97
167.82	0.11	168.34	0.16	168.86	1.56	169.38	8.16
167.83	0.11	168.35	0.16	168.87	1.62	169.39	8.36
167.84	0.11	168.36	0.16	168.88	1.68	169.40	8.56
167.85	0.12	168.37	0.17	168.89	1.73	169.41	8.76
167.86	0.12	168.38	0.17	168.90	1.79	169.42	8.96
167.87	0.12	168.39	0.17	168.91	1.85	169.43	9.17
167.88	0.12	168.40	0.17	168.92	1.91	169.44	9.37
167.89	0.12	168.41	0.17	168.93	1.97	169.45	9.58

Stage-Discharge for Pond B-45: Basin #45 (continued)

Elevation (feet)	Primary (cfs)
169.46	9.79
169.47	10.00
169.48	10.21
169.49	10.42
169.50	10.64
169.51	10.85
169.52	11.07
169.53	11.29
169.54	11.51
169.55	11.73
169.56	11.95
169.57	12.18
169.58	12.40
169.59	12.63
169.60	12.86
169.61	13.09
169.62	13.32
169.63	13.55
169.64	13.78
169.65	14.02
169.66	14.25
169.67	14.49
169.68	14.73
169.69	14.97
169.70	15.21
169.71	15.45
169.72	15.69
169.73	15.94
169.74	16.18
169.75	16.37
169.76	16.39
169.77	16.41
169.78	16.43
169.79	16.46
169.80	16.48
169.81	16.50
169.82	16.52
169.83	16.54
169.84	16.56
169.85	16.59
169.86	16.61
169.87	16.63
169.88	16.65
169.89	16.67
169.90	16.70
169.91	16.72
169.92	16.74
169.93	16.76
169.94	16.78
169.95	16.80
169.96	16.82
169.97	16.85
169.98	16.99
169.99	17.22
170.00	**17.52**

Stage-Area-Storage for Pond B-45: Basin #45

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
165.30	0	0	165.82	2,821	733
165.31	54	0	165.83	2,875	762
165.32	108	1	165.84	2,929	791
165.33	163	2	165.85	2,983	820
165.34	217	4	165.86	3,038	851
165.35	271	7	165.87	3,092	881
165.36	325	10	165.88	3,146	912
165.37	380	13	165.89	3,200	944
165.38	434	17	165.90	3,255	976
165.39	488	22	165.91	3,309	1,009
165.40	542	27	165.92	3,363	1,043
165.41	597	33	165.93	3,417	1,076
165.42	651	39	165.94	3,472	1,111
165.43	705	46	165.95	3,526	1,146
165.44	759	53	165.96	3,580	1,181
165.45	814	61	165.97	3,634	1,217
165.46	868	69	165.98	3,689	1,254
165.47	922	78	165.99	3,743	1,291
165.48	976	88	166.00	3,797	1,329
165.49	1,031	98	166.01	3,803	1,367
165.50	1,085	108	166.02	3,808	1,405
165.51	1,139	120	166.03	3,814	1,443
165.52	1,193	131	166.04	3,820	1,481
165.53	1,248	143	166.05	3,826	1,520
165.54	1,302	156	166.06	3,831	1,558
165.55	1,356	170	166.07	3,837	1,596
165.56	1,410	183	166.08	3,843	1,635
165.57	1,465	198	166.09	3,849	1,673
165.58	1,519	213	166.10	3,854	1,712
165.59	1,573	228	166.11	3,860	1,750
165.60	1,627	244	166.12	3,866	1,789
165.61	1,682	261	166.13	3,871	1,827
165.62	1,736	278	166.14	3,877	1,866
165.63	1,790	295	166.15	3,883	1,905
165.64	1,844	314	166.16	3,889	1,944
165.65	1,899	332	166.17	3,894	1,983
165.66	1,953	351	166.18	3,900	2,022
165.67	2,007	371	166.19	3,906	2,061
165.68	2,061	392	166.20	3,912	2,100
165.69	2,115	413	166.21	3,917	2,139
165.70	2,170	434	166.22	3,923	2,178
165.71	2,224	456	166.23	3,929	2,217
165.72	2,278	478	166.24	3,935	2,257
165.73	2,332	501	166.25	3,940	2,296
165.74	2,387	525	166.26	3,946	2,336
165.75	2,441	549	166.27	3,952	2,375
165.76	2,495	574	166.28	3,957	2,415
165.77	2,549	599	166.29	3,963	2,454
165.78	2,604	625	166.30	3,969	2,494
165.79	2,658	651	166.31	3,975	2,534
165.80	2,712	678	166.32	3,980	2,573
165.81	2,766	705	166.33	3,986	2,613

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
166.34	3,992	2,653
166.35	3,998	2,693
166.36	4,003	2,733
166.37	4,009	2,773
166.38	4,015	2,813
166.39	4,020	2,853
166.40	4,026	2,894
166.41	4,032	2,934
166.42	4,038	2,974
166.43	4,043	3,015
166.44	4,049	3,055
166.45	4,055	3,096
166.46	4,061	3,136
166.47	4,066	3,177
166.48	4,072	3,218
166.49	4,078	3,258
166.50	4,084	3,299
166.51	4,089	3,340
166.52	4,095	3,381
166.53	4,101	3,422
166.54	4,106	3,463
166.55	4,112	3,504
166.56	4,118	3,545
166.57	4,124	3,586
166.58	4,129	3,628
166.59	4,135	3,669
166.60	4,141	3,710
166.61	4,147	3,752
166.62	4,152	3,793
166.63	4,158	3,835
166.64	4,164	3,876
166.65	4,169	3,918
166.66	4,175	3,960
166.67	4,181	4,002
166.68	4,187	4,043
166.69	4,192	4,085
166.70	4,198	4,127
166.71	4,204	4,169
166.72	4,210	4,211
166.73	4,215	4,253
166.74	4,221	4,296
166.75	4,227	4,338
166.76	4,232	4,380
166.77	4,238	4,423
166.78	4,244	4,465
166.79	4,250	4,507
166.80	4,255	4,550
166.81	4,261	4,592
166.82	4,267	4,635
166.83	4,273	4,678
166.84	4,278	4,721
166.85	4,284	4,763
166.86	4,290	4,806
166.87	4,296	4,849
166.88	4,301	4,892
166.89	4,307	4,935
166.90	4,313	4,978
166.91	4,318	5,021
166.92	4,324	5,065
166.93	4,330	5,108
166.94	4,336	5,151
166.95	4,341	5,195
166.96	4,347	5,238
166.97	4,353	5,282
166.98	4,359	5,325
166.99	4,364	5,369
167.00	4,370	5,412
167.01	4,376	5,456
167.02	4,382	5,500
167.03	4,388	5,544
167.04	4,394	5,588
167.05	4,400	5,632
167.06	4,406	5,676
167.07	4,412	5,720
167.08	4,418	5,764
167.09	4,424	5,808
167.10	4,430	5,852
167.11	4,436	5,897
167.12	4,442	5,941
167.13	4,448	5,986
167.14	4,454	6,030
167.15	4,460	6,075
167.16	4,466	6,119
167.17	4,471	6,164
167.18	4,477	6,209
167.19	4,483	6,254
167.20	4,489	6,298
167.21	4,495	6,343
167.22	4,501	6,388
167.23	4,507	6,433
167.24	4,513	6,478
167.25	4,519	6,524
167.26	4,525	6,569
167.27	4,531	6,614
167.28	4,537	6,659
167.29	4,543	6,705
167.30	4,549	6,750
167.31	4,555	6,796
167.32	4,561	6,841
167.33	4,567	6,887
167.34	4,573	6,933
167.35	4,579	6,979
167.36	4,585	7,024
167.37	4,591	7,070

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
167.38	4,597	7,116	167.90	4,907	9,587
167.39	4,603	7,162	167.91	4,913	9,636
167.40	4,609	7,208	167.92	4,919	9,686
167.41	4,615	7,254	167.93	4,925	9,735
167.42	4,621	7,301	167.94	4,931	9,784
167.43	4,627	7,347	167.95	4,937	9,833
167.44	4,633	7,393	167.96	4,943	9,883
167.45	4,639	7,439	167.97	4,949	9,932
167.46	4,645	7,486	167.98	4,955	9,982
167.47	4,651	7,532	167.99	4,961	10,031
167.48	4,657	7,579	168.00	4,967	10,081
167.49	4,663	7,625	168.01	4,973	10,131
167.50	4,669	7,672	168.02	4,979	10,180
167.51	4,674	7,719	168.03	4,986	10,230
167.52	4,680	7,766	168.04	4,992	10,280
167.53	4,686	7,812	168.05	4,998	10,330
167.54	4,692	7,859	168.06	5,004	10,380
167.55	4,698	7,906	168.07	5,010	10,430
167.56	4,704	7,953	168.08	5,017	10,480
167.57	4,710	8,000	168.09	5,023	10,530
167.58	4,716	8,047	168.10	5,029	10,581
167.59	4,722	8,095	168.11	5,035	10,631
167.60	4,728	8,142	168.12	5,042	10,681
167.61	4,734	8,189	168.13	5,048	10,732
167.62	4,740	8,237	168.14	5,054	10,782
167.63	4,746	8,284	168.15	5,060	10,833
167.64	4,752	8,332	168.16	5,066	10,884
167.65	4,758	8,379	168.17	5,073	10,934
167.66	4,764	8,427	168.18	5,079	10,985
167.67	4,770	8,474	168.19	5,085	11,036
167.68	4,776	8,522	168.20	5,091	11,087
167.69	4,782	8,570	168.21	5,097	11,138
167.70	4,788	8,618	168.22	5,104	11,189
167.71	4,794	8,666	168.23	5,110	11,240
167.72	4,800	8,714	168.24	5,116	11,291
167.73	4,806	8,762	168.25	5,122	11,342
167.74	4,812	8,810	168.26	5,128	11,393
167.75	4,818	8,858	168.27	5,135	11,445
167.76	4,824	8,906	168.28	5,141	11,496
167.77	4,830	8,954	168.29	5,147	11,547
167.78	4,836	9,003	168.30	5,153	11,599
167.79	4,842	9,051	168.31	5,160	11,651
167.80	4,848	9,099	168.32	5,166	11,702
167.81	4,854	9,148	168.33	5,172	11,754
167.82	4,860	9,197	168.34	5,178	11,806
167.83	4,866	9,245	168.35	5,184	11,857
167.84	4,871	9,294	168.36	5,191	11,909
167.85	4,877	9,343	168.37	5,197	11,961
167.86	4,883	9,391	168.38	5,203	12,013
167.87	4,889	9,440	168.39	5,209	12,065
167.88	4,895	9,489	168.40	5,215	12,117
167.89	4,901	9,538	168.41	5,222	12,170

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
168.42	5,228	12,222	168.94	5,551	15,024
168.43	5,234	12,274	168.95	5,557	15,080
168.44	5,240	12,327	168.96	5,563	15,135
168.45	5,246	12,379	168.97	5,569	15,191
168.46	5,253	12,431	168.98	5,576	15,247
168.47	5,259	12,484	168.99	5,582	15,303
168.48	5,265	12,537	169.00	5,588	15,358
168.49	5,271	12,589	169.01	5,594	15,414
168.50	5,278	12,642	169.02	5,601	15,470
168.51	5,284	12,695	169.03	5,607	15,526
168.52	5,290	12,748	169.04	5,614	15,582
168.53	5,296	12,801	169.05	5,620	15,639
168.54	5,302	12,854	169.06	5,627	15,695
168.55	5,309	12,907	169.07	5,633	15,751
168.56	5,315	12,960	169.08	5,640	15,808
168.57	5,321	13,013	169.09	5,646	15,864
168.58	5,327	13,066	169.10	5,653	15,920
168.59	5,333	13,120	169.11	5,659	15,977
168.60	5,340	13,173	169.12	5,666	16,034
168.61	5,346	13,226	169.13	5,672	16,090
168.62	5,352	13,280	169.14	5,679	16,147
168.63	5,358	13,333	169.15	5,685	16,204
168.64	5,364	13,387	169.16	5,692	16,261
168.65	5,371	13,441	169.17	5,698	16,318
168.66	5,377	13,494	169.18	5,704	16,375
168.67	5,383	13,548	169.19	5,711	16,432
168.68	5,389	13,602	169.20	5,717	16,489
168.69	5,395	13,656	169.21	5,724	16,546
168.70	5,402	13,710	169.22	5,730	16,603
168.71	5,408	13,764	169.23	5,737	16,661
168.72	5,414	13,818	169.24	5,743	16,718
168.73	5,420	13,872	169.25	5,750	16,776
168.74	5,427	13,927	169.26	5,756	16,833
168.75	5,433	13,981	169.27	5,763	16,891
168.76	5,439	14,035	169.28	5,769	16,948
168.77	5,445	14,090	169.29	5,776	17,006
168.78	5,451	14,144	169.30	5,782	17,064
168.79	5,458	14,199	169.31	5,789	17,122
168.80	5,464	14,253	169.32	5,795	17,180
168.81	5,470	14,308	169.33	5,802	17,238
168.82	5,476	14,363	169.34	5,808	17,296
168.83	5,482	14,417	169.35	5,814	17,354
168.84	5,489	14,472	169.36	5,821	17,412
168.85	5,495	14,527	169.37	5,827	17,470
168.86	5,501	14,582	169.38	5,834	17,529
168.87	5,507	14,637	169.39	5,840	17,587
168.88	5,513	14,692	169.40	5,847	17,645
168.89	5,520	14,748	169.41	5,853	17,704
168.90	5,526	14,803	169.42	5,860	17,762
168.91	5,532	14,858	169.43	5,866	17,821
168.92	5,538	14,913	169.44	5,873	17,880
168.93	5,545	14,969	169.45	5,879	17,939

Stage-Area-Storage for Pond B-45: Basin #45 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.46	5,886	17,997
169.47	5,892	18,056
169.48	5,899	18,115
169.49	5,905	18,174
169.50	5,912	18,233
169.51	5,918	18,292
169.52	5,924	18,352
169.53	5,931	18,411
169.54	5,937	18,470
169.55	5,944	18,530
169.56	5,950	18,589
169.57	5,957	18,649
169.58	5,963	18,708
169.59	5,970	18,768
169.60	5,976	18,828
169.61	5,983	18,888
169.62	5,989	18,947
169.63	5,996	19,007
169.64	6,002	19,067
169.65	6,009	19,127
169.66	6,015	19,187
169.67	6,021	19,248
169.68	6,028	19,308
169.69	6,034	19,368
169.70	6,041	19,429
169.71	6,047	19,489
169.72	6,054	19,550
169.73	6,060	19,610
169.74	6,067	19,671
169.75	6,073	19,731
169.76	6,080	19,792
169.77	6,086	19,853
169.78	6,093	19,914
169.79	6,099	19,975
169.80	6,106	20,036
169.81	6,112	20,097
169.82	6,119	20,158
169.83	6,125	20,219
169.84	6,131	20,281
169.85	6,138	20,342
169.86	6,144	20,403
169.87	6,151	20,465
169.88	6,157	20,526
169.89	6,164	20,588
169.90	6,170	20,650
169.91	6,177	20,711
169.92	6,183	20,773
169.93	6,190	20,835
169.94	6,196	20,897
169.95	6,203	20,959
169.96	6,209	21,021
169.97	6,216	21,083
169.98	6,222	21,145
169.99	6,229	21,208
170.00	**6,235**	**21,270**

Summary for Pond B-46A: Basin #46A

Inflow Area = 2.480 ac, 46.25% Impervious, Inflow Depth = 4.24" for Future 10 yr event
Inflow = 10.63 cfs @ 12.17 hrs, Volume= 0.876 af
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Pond B-46B : Basin #46B

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 184.85' @ 24.60 hrs Surf.Area= 13,881 sf Storage= 38,169 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

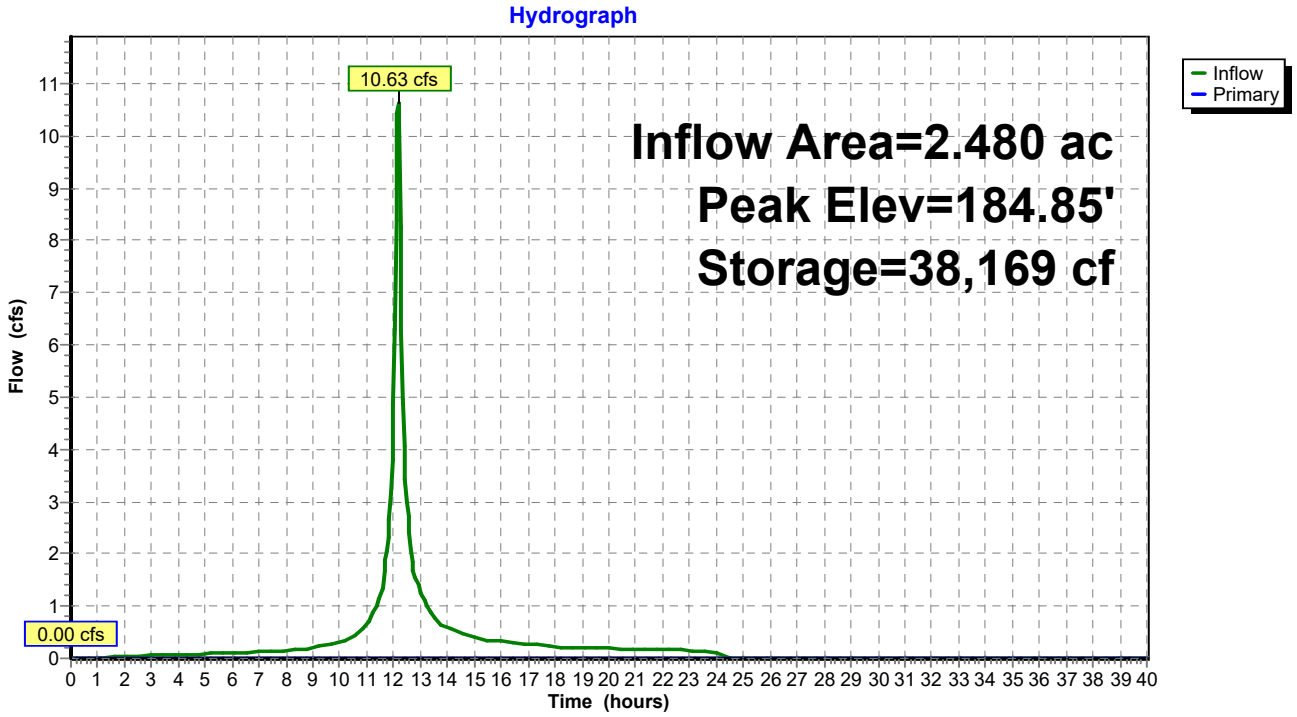
Volume	Invert	Avail.Storage	Storage Description
#1	181.00'	90,351 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
181.00	6,639	0	0
182.00	7,998	7,319	7,319
183.00	9,413	8,706	16,024
184.00	12,515	10,964	26,988
185.00	14,128	13,322	40,310
186.00	15,798	14,963	55,273
187.00	17,524	16,661	71,934
188.00	19,310	18,417	90,351

Device	Routing	Invert	Outlet Devices
#1	Primary	187.50'	**50.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s) 0.5' Crest Height

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=181.00' (Free Discharge)
1=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-46A: Basin #46A



Stage-Discharge for Pond B-46A: Basin #46A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.00	0.00	181.52	0.00	182.04	0.00	182.56	0.00
181.01	0.00	181.53	0.00	182.05	0.00	182.57	0.00
181.02	0.00	181.54	0.00	182.06	0.00	182.58	0.00
181.03	0.00	181.55	0.00	182.07	0.00	182.59	0.00
181.04	0.00	181.56	0.00	182.08	0.00	182.60	0.00
181.05	0.00	181.57	0.00	182.09	0.00	182.61	0.00
181.06	0.00	181.58	0.00	182.10	0.00	182.62	0.00
181.07	0.00	181.59	0.00	182.11	0.00	182.63	0.00
181.08	0.00	181.60	0.00	182.12	0.00	182.64	0.00
181.09	0.00	181.61	0.00	182.13	0.00	182.65	0.00
181.10	0.00	181.62	0.00	182.14	0.00	182.66	0.00
181.11	0.00	181.63	0.00	182.15	0.00	182.67	0.00
181.12	0.00	181.64	0.00	182.16	0.00	182.68	0.00
181.13	0.00	181.65	0.00	182.17	0.00	182.69	0.00
181.14	0.00	181.66	0.00	182.18	0.00	182.70	0.00
181.15	0.00	181.67	0.00	182.19	0.00	182.71	0.00
181.16	0.00	181.68	0.00	182.20	0.00	182.72	0.00
181.17	0.00	181.69	0.00	182.21	0.00	182.73	0.00
181.18	0.00	181.70	0.00	182.22	0.00	182.74	0.00
181.19	0.00	181.71	0.00	182.23	0.00	182.75	0.00
181.20	0.00	181.72	0.00	182.24	0.00	182.76	0.00
181.21	0.00	181.73	0.00	182.25	0.00	182.77	0.00
181.22	0.00	181.74	0.00	182.26	0.00	182.78	0.00
181.23	0.00	181.75	0.00	182.27	0.00	182.79	0.00
181.24	0.00	181.76	0.00	182.28	0.00	182.80	0.00
181.25	0.00	181.77	0.00	182.29	0.00	182.81	0.00
181.26	0.00	181.78	0.00	182.30	0.00	182.82	0.00
181.27	0.00	181.79	0.00	182.31	0.00	182.83	0.00
181.28	0.00	181.80	0.00	182.32	0.00	182.84	0.00
181.29	0.00	181.81	0.00	182.33	0.00	182.85	0.00
181.30	0.00	181.82	0.00	182.34	0.00	182.86	0.00
181.31	0.00	181.83	0.00	182.35	0.00	182.87	0.00
181.32	0.00	181.84	0.00	182.36	0.00	182.88	0.00
181.33	0.00	181.85	0.00	182.37	0.00	182.89	0.00
181.34	0.00	181.86	0.00	182.38	0.00	182.90	0.00
181.35	0.00	181.87	0.00	182.39	0.00	182.91	0.00
181.36	0.00	181.88	0.00	182.40	0.00	182.92	0.00
181.37	0.00	181.89	0.00	182.41	0.00	182.93	0.00
181.38	0.00	181.90	0.00	182.42	0.00	182.94	0.00
181.39	0.00	181.91	0.00	182.43	0.00	182.95	0.00
181.40	0.00	181.92	0.00	182.44	0.00	182.96	0.00
181.41	0.00	181.93	0.00	182.45	0.00	182.97	0.00
181.42	0.00	181.94	0.00	182.46	0.00	182.98	0.00
181.43	0.00	181.95	0.00	182.47	0.00	182.99	0.00
181.44	0.00	181.96	0.00	182.48	0.00	183.00	0.00
181.45	0.00	181.97	0.00	182.49	0.00	183.01	0.00
181.46	0.00	181.98	0.00	182.50	0.00	183.02	0.00
181.47	0.00	181.99	0.00	182.51	0.00	183.03	0.00
181.48	0.00	182.00	0.00	182.52	0.00	183.04	0.00
181.49	0.00	182.01	0.00	182.53	0.00	183.05	0.00
181.50	0.00	182.02	0.00	182.54	0.00	183.06	0.00
181.51	0.00	182.03	0.00	182.55	0.00	183.07	0.00

Stage-Discharge for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.08	0.00	183.60	0.00	184.12	0.00	184.64	0.00
183.09	0.00	183.61	0.00	184.13	0.00	184.65	0.00
183.10	0.00	183.62	0.00	184.14	0.00	184.66	0.00
183.11	0.00	183.63	0.00	184.15	0.00	184.67	0.00
183.12	0.00	183.64	0.00	184.16	0.00	184.68	0.00
183.13	0.00	183.65	0.00	184.17	0.00	184.69	0.00
183.14	0.00	183.66	0.00	184.18	0.00	184.70	0.00
183.15	0.00	183.67	0.00	184.19	0.00	184.71	0.00
183.16	0.00	183.68	0.00	184.20	0.00	184.72	0.00
183.17	0.00	183.69	0.00	184.21	0.00	184.73	0.00
183.18	0.00	183.70	0.00	184.22	0.00	184.74	0.00
183.19	0.00	183.71	0.00	184.23	0.00	184.75	0.00
183.20	0.00	183.72	0.00	184.24	0.00	184.76	0.00
183.21	0.00	183.73	0.00	184.25	0.00	184.77	0.00
183.22	0.00	183.74	0.00	184.26	0.00	184.78	0.00
183.23	0.00	183.75	0.00	184.27	0.00	184.79	0.00
183.24	0.00	183.76	0.00	184.28	0.00	184.80	0.00
183.25	0.00	183.77	0.00	184.29	0.00	184.81	0.00
183.26	0.00	183.78	0.00	184.30	0.00	184.82	0.00
183.27	0.00	183.79	0.00	184.31	0.00	184.83	0.00
183.28	0.00	183.80	0.00	184.32	0.00	184.84	0.00
183.29	0.00	183.81	0.00	184.33	0.00	184.85	0.00
183.30	0.00	183.82	0.00	184.34	0.00	184.86	0.00
183.31	0.00	183.83	0.00	184.35	0.00	184.87	0.00
183.32	0.00	183.84	0.00	184.36	0.00	184.88	0.00
183.33	0.00	183.85	0.00	184.37	0.00	184.89	0.00
183.34	0.00	183.86	0.00	184.38	0.00	184.90	0.00
183.35	0.00	183.87	0.00	184.39	0.00	184.91	0.00
183.36	0.00	183.88	0.00	184.40	0.00	184.92	0.00
183.37	0.00	183.89	0.00	184.41	0.00	184.93	0.00
183.38	0.00	183.90	0.00	184.42	0.00	184.94	0.00
183.39	0.00	183.91	0.00	184.43	0.00	184.95	0.00
183.40	0.00	183.92	0.00	184.44	0.00	184.96	0.00
183.41	0.00	183.93	0.00	184.45	0.00	184.97	0.00
183.42	0.00	183.94	0.00	184.46	0.00	184.98	0.00
183.43	0.00	183.95	0.00	184.47	0.00	184.99	0.00
183.44	0.00	183.96	0.00	184.48	0.00	185.00	0.00
183.45	0.00	183.97	0.00	184.49	0.00	185.01	0.00
183.46	0.00	183.98	0.00	184.50	0.00	185.02	0.00
183.47	0.00	183.99	0.00	184.51	0.00	185.03	0.00
183.48	0.00	184.00	0.00	184.52	0.00	185.04	0.00
183.49	0.00	184.01	0.00	184.53	0.00	185.05	0.00
183.50	0.00	184.02	0.00	184.54	0.00	185.06	0.00
183.51	0.00	184.03	0.00	184.55	0.00	185.07	0.00
183.52	0.00	184.04	0.00	184.56	0.00	185.08	0.00
183.53	0.00	184.05	0.00	184.57	0.00	185.09	0.00
183.54	0.00	184.06	0.00	184.58	0.00	185.10	0.00
183.55	0.00	184.07	0.00	184.59	0.00	185.11	0.00
183.56	0.00	184.08	0.00	184.60	0.00	185.12	0.00
183.57	0.00	184.09	0.00	184.61	0.00	185.13	0.00
183.58	0.00	184.10	0.00	184.62	0.00	185.14	0.00
183.59	0.00	184.11	0.00	184.63	0.00	185.15	0.00

Stage-Discharge for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.16	0.00	185.68	0.00	186.20	0.00	186.72	0.00
185.17	0.00	185.69	0.00	186.21	0.00	186.73	0.00
185.18	0.00	185.70	0.00	186.22	0.00	186.74	0.00
185.19	0.00	185.71	0.00	186.23	0.00	186.75	0.00
185.20	0.00	185.72	0.00	186.24	0.00	186.76	0.00
185.21	0.00	185.73	0.00	186.25	0.00	186.77	0.00
185.22	0.00	185.74	0.00	186.26	0.00	186.78	0.00
185.23	0.00	185.75	0.00	186.27	0.00	186.79	0.00
185.24	0.00	185.76	0.00	186.28	0.00	186.80	0.00
185.25	0.00	185.77	0.00	186.29	0.00	186.81	0.00
185.26	0.00	185.78	0.00	186.30	0.00	186.82	0.00
185.27	0.00	185.79	0.00	186.31	0.00	186.83	0.00
185.28	0.00	185.80	0.00	186.32	0.00	186.84	0.00
185.29	0.00	185.81	0.00	186.33	0.00	186.85	0.00
185.30	0.00	185.82	0.00	186.34	0.00	186.86	0.00
185.31	0.00	185.83	0.00	186.35	0.00	186.87	0.00
185.32	0.00	185.84	0.00	186.36	0.00	186.88	0.00
185.33	0.00	185.85	0.00	186.37	0.00	186.89	0.00
185.34	0.00	185.86	0.00	186.38	0.00	186.90	0.00
185.35	0.00	185.87	0.00	186.39	0.00	186.91	0.00
185.36	0.00	185.88	0.00	186.40	0.00	186.92	0.00
185.37	0.00	185.89	0.00	186.41	0.00	186.93	0.00
185.38	0.00	185.90	0.00	186.42	0.00	186.94	0.00
185.39	0.00	185.91	0.00	186.43	0.00	186.95	0.00
185.40	0.00	185.92	0.00	186.44	0.00	186.96	0.00
185.41	0.00	185.93	0.00	186.45	0.00	186.97	0.00
185.42	0.00	185.94	0.00	186.46	0.00	186.98	0.00
185.43	0.00	185.95	0.00	186.47	0.00	186.99	0.00
185.44	0.00	185.96	0.00	186.48	0.00	187.00	0.00
185.45	0.00	185.97	0.00	186.49	0.00	187.01	0.00
185.46	0.00	185.98	0.00	186.50	0.00	187.02	0.00
185.47	0.00	185.99	0.00	186.51	0.00	187.03	0.00
185.48	0.00	186.00	0.00	186.52	0.00	187.04	0.00
185.49	0.00	186.01	0.00	186.53	0.00	187.05	0.00
185.50	0.00	186.02	0.00	186.54	0.00	187.06	0.00
185.51	0.00	186.03	0.00	186.55	0.00	187.07	0.00
185.52	0.00	186.04	0.00	186.56	0.00	187.08	0.00
185.53	0.00	186.05	0.00	186.57	0.00	187.09	0.00
185.54	0.00	186.06	0.00	186.58	0.00	187.10	0.00
185.55	0.00	186.07	0.00	186.59	0.00	187.11	0.00
185.56	0.00	186.08	0.00	186.60	0.00	187.12	0.00
185.57	0.00	186.09	0.00	186.61	0.00	187.13	0.00
185.58	0.00	186.10	0.00	186.62	0.00	187.14	0.00
185.59	0.00	186.11	0.00	186.63	0.00	187.15	0.00
185.60	0.00	186.12	0.00	186.64	0.00	187.16	0.00
185.61	0.00	186.13	0.00	186.65	0.00	187.17	0.00
185.62	0.00	186.14	0.00	186.66	0.00	187.18	0.00
185.63	0.00	186.15	0.00	186.67	0.00	187.19	0.00
185.64	0.00	186.16	0.00	186.68	0.00	187.20	0.00
185.65	0.00	186.17	0.00	186.69	0.00	187.21	0.00
185.66	0.00	186.18	0.00	186.70	0.00	187.22	0.00
185.67	0.00	186.19	0.00	186.71	0.00	187.23	0.00

Stage-Discharge for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Primary (cfs)
187.24	0.00
187.25	0.00
187.26	0.00
187.27	0.00
187.28	0.00
187.29	0.00
187.30	0.00
187.31	0.00
187.32	0.00
187.33	0.00
187.34	0.00
187.35	0.00
187.36	0.00
187.37	0.00
187.38	0.00
187.39	0.00
187.40	0.00
187.41	0.00
187.42	0.00
187.43	0.00
187.44	0.00
187.45	0.00
187.46	0.00
187.47	0.00
187.48	0.00
187.49	0.00
187.50	0.00
187.51	0.16
187.52	0.46
187.53	0.86
187.54	1.32
187.55	1.85
187.56	2.44
187.57	3.08
187.58	3.77
187.59	4.51
187.60	5.29
187.61	6.12
187.62	6.99
187.63	7.90
187.64	8.85
187.65	9.84
187.66	10.87
187.67	11.93
187.68	13.03
187.69	14.16
187.70	15.33
187.71	16.53
187.72	17.76
187.73	19.03
187.74	20.33
187.75	21.67
187.76	23.03
187.77	24.43
187.78	25.85
187.79	27.31
187.80	28.80
187.81	30.32
187.82	31.87
187.83	33.45
187.84	35.06
187.85	36.70
187.86	38.37
187.87	40.07
187.88	41.80
187.89	43.55
187.90	45.34
187.91	47.15
187.92	48.99
187.93	50.86
187.94	52.76
187.95	54.69
187.96	56.65
187.97	58.63
187.98	60.64
187.99	62.68
188.00	**64.75**

Stage-Area-Storage for Pond B-46A: Basin #46A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.00	6,639	0	181.52	7,346	3,636
181.01	6,653	66	181.53	7,359	3,710
181.02	6,666	133	181.54	7,373	3,783
181.03	6,680	200	181.55	7,386	3,857
181.04	6,693	267	181.56	7,400	3,931
181.05	6,707	334	181.57	7,414	4,005
181.06	6,721	401	181.58	7,427	4,079
181.07	6,734	468	181.59	7,441	4,154
181.08	6,748	535	181.60	7,454	4,228
181.09	6,761	603	181.61	7,468	4,303
181.10	6,775	671	181.62	7,482	4,377
181.11	6,788	739	181.63	7,495	4,452
181.12	6,802	806	181.64	7,509	4,527
181.13	6,816	875	181.65	7,522	4,602
181.14	6,829	943	181.66	7,536	4,678
181.15	6,843	1,011	181.67	7,550	4,753
181.16	6,856	1,080	181.68	7,563	4,829
181.17	6,870	1,148	181.69	7,577	4,904
181.18	6,884	1,217	181.70	7,590	4,980
181.19	6,897	1,286	181.71	7,604	5,056
181.20	6,911	1,355	181.72	7,617	5,132
181.21	6,924	1,424	181.73	7,631	5,209
181.22	6,938	1,493	181.74	7,645	5,285
181.23	6,952	1,563	181.75	7,658	5,361
181.24	6,965	1,632	181.76	7,672	5,438
181.25	6,979	1,702	181.77	7,685	5,515
181.26	6,992	1,772	181.78	7,699	5,592
181.27	7,006	1,842	181.79	7,713	5,669
181.28	7,020	1,912	181.80	7,726	5,746
181.29	7,033	1,982	181.81	7,740	5,823
181.30	7,047	2,053	181.82	7,753	5,901
181.31	7,060	2,123	181.83	7,767	5,978
181.32	7,074	2,194	181.84	7,781	6,056
181.33	7,087	2,265	181.85	7,794	6,134
181.34	7,101	2,336	181.86	7,808	6,212
181.35	7,115	2,407	181.87	7,821	6,290
181.36	7,128	2,478	181.88	7,835	6,369
181.37	7,142	2,549	181.89	7,849	6,447
181.38	7,155	2,621	181.90	7,862	6,525
181.39	7,169	2,693	181.91	7,876	6,604
181.40	7,183	2,764	181.92	7,889	6,683
181.41	7,196	2,836	181.93	7,903	6,762
181.42	7,210	2,908	181.94	7,916	6,841
181.43	7,223	2,980	181.95	7,930	6,920
181.44	7,237	3,053	181.96	7,944	7,000
181.45	7,251	3,125	181.97	7,957	7,079
181.46	7,264	3,198	181.98	7,971	7,159
181.47	7,278	3,270	181.99	7,984	7,239
181.48	7,291	3,343	182.00	7,998	7,319
181.49	7,305	3,416	182.01	8,012	7,399
181.50	7,319	3,489	182.02	8,026	7,479
181.51	7,332	3,563	182.03	8,040	7,559

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.04	8,055	7,640	182.56	8,790	12,019
182.05	8,069	7,720	182.57	8,805	12,107
182.06	8,083	7,801	182.58	8,819	12,195
182.07	8,097	7,882	182.59	8,833	12,284
182.08	8,111	7,963	182.60	8,847	12,372
182.09	8,125	8,044	182.61	8,861	12,461
182.10	8,139	8,125	182.62	8,875	12,549
182.11	8,154	8,207	182.63	8,889	12,638
182.12	8,168	8,288	182.64	8,904	12,727
182.13	8,182	8,370	182.65	8,918	12,816
182.14	8,196	8,452	182.66	8,932	12,905
182.15	8,210	8,534	182.67	8,946	12,995
182.16	8,224	8,616	182.68	8,960	13,084
182.17	8,239	8,699	182.69	8,974	13,174
182.18	8,253	8,781	182.70	8,988	13,264
182.19	8,267	8,864	182.71	9,003	13,354
182.20	8,281	8,946	182.72	9,017	13,444
182.21	8,295	9,029	182.73	9,031	13,534
182.22	8,309	9,112	182.74	9,045	13,624
182.23	8,323	9,195	182.75	9,059	13,715
182.24	8,338	9,279	182.76	9,073	13,806
182.25	8,352	9,362	182.77	9,088	13,896
182.26	8,366	9,446	182.78	9,102	13,987
182.27	8,380	9,530	182.79	9,116	14,078
182.28	8,394	9,613	182.80	9,130	14,170
182.29	8,408	9,697	182.81	9,144	14,261
182.30	8,423	9,782	182.82	9,158	14,353
182.31	8,437	9,866	182.83	9,172	14,444
182.32	8,451	9,950	182.84	9,187	14,536
182.33	8,465	10,035	182.85	9,201	14,628
182.34	8,479	10,120	182.86	9,215	14,720
182.35	8,493	10,204	182.87	9,229	14,812
182.36	8,507	10,289	182.88	9,243	14,905
182.37	8,522	10,375	182.89	9,257	14,997
182.38	8,536	10,460	182.90	9,272	15,090
182.39	8,550	10,545	182.91	9,286	15,183
182.40	8,564	10,631	182.92	9,300	15,275
182.41	8,578	10,717	182.93	9,314	15,369
182.42	8,592	10,802	182.94	9,328	15,462
182.43	8,606	10,888	182.95	9,342	15,555
182.44	8,621	10,975	182.96	9,356	15,649
182.45	8,635	11,061	182.97	9,371	15,742
182.46	8,649	11,147	182.98	9,385	15,836
182.47	8,663	11,234	182.99	9,399	15,930
182.48	8,677	11,321	183.00	9,413	16,024
182.49	8,691	11,407	183.01	9,444	16,118
182.50	8,706	11,494	183.02	9,475	16,213
182.51	8,720	11,582	183.03	9,506	16,308
182.52	8,734	11,669	183.04	9,537	16,403
182.53	8,748	11,756	183.05	9,568	16,499
182.54	8,762	11,844	183.06	9,599	16,594
182.55	8,776	11,931	183.07	9,630	16,691

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.08	9,661	16,787
183.09	9,692	16,884
183.10	9,723	16,981
183.11	9,754	17,078
183.12	9,785	17,176
183.13	9,816	17,274
183.14	9,847	17,372
183.15	9,878	17,471
183.16	9,909	17,570
183.17	9,940	17,669
183.18	9,971	17,769
183.19	10,002	17,868
183.20	10,033	17,969
183.21	10,064	18,069
183.22	10,095	18,170
183.23	10,126	18,271
183.24	10,157	18,372
183.25	10,189	18,474
183.26	10,220	18,576
183.27	10,251	18,679
183.28	10,282	18,781
183.29	10,313	18,884
183.30	10,344	18,987
183.31	10,375	19,091
183.32	10,406	19,195
183.33	10,437	19,299
183.34	10,468	19,404
183.35	10,499	19,509
183.36	10,530	19,614
183.37	10,561	19,719
183.38	10,592	19,825
183.39	10,623	19,931
183.40	10,654	20,037
183.41	10,685	20,144
183.42	10,716	20,251
183.43	10,747	20,358
183.44	10,778	20,466
183.45	10,809	20,574
183.46	10,840	20,682
183.47	10,871	20,791
183.48	10,902	20,900
183.49	10,933	21,009
183.50	10,964	21,118
183.51	10,995	21,228
183.52	11,026	21,338
183.53	11,057	21,449
183.54	11,088	21,559
183.55	11,119	21,670
183.56	11,150	21,782
183.57	11,181	21,893
183.58	11,212	22,005
183.59	11,243	22,118
183.60	11,274	22,230
183.61	11,305	22,343
183.62	11,336	22,456
183.63	11,367	22,570
183.64	11,398	22,684
183.65	11,429	22,798
183.66	11,460	22,912
183.67	11,491	23,027
183.68	11,522	23,142
183.69	11,553	23,257
183.70	11,584	23,373
183.71	11,615	23,489
183.72	11,646	23,605
183.73	11,677	23,722
183.74	11,708	23,839
183.75	11,740	23,956
183.76	11,771	24,074
183.77	11,802	24,192
183.78	11,833	24,310
183.79	11,864	24,428
183.80	11,895	24,547
183.81	11,926	24,666
183.82	11,957	24,786
183.83	11,988	24,905
183.84	12,019	25,025
183.85	12,050	25,146
183.86	12,081	25,266
183.87	12,112	25,387
183.88	12,143	25,509
183.89	12,174	25,630
183.90	12,205	25,752
183.91	12,236	25,874
183.92	12,267	25,997
183.93	12,298	26,120
183.94	12,329	26,243
183.95	12,360	26,366
183.96	12,391	26,490
183.97	12,422	26,614
183.98	12,453	26,738
183.99	12,484	26,863
184.00	12,515	26,988
184.01	12,531	27,113
184.02	12,547	27,239
184.03	12,563	27,364
184.04	12,580	27,490
184.05	12,596	27,616
184.06	12,612	27,742
184.07	12,628	27,868
184.08	12,644	27,994
184.09	12,660	28,121
184.10	12,676	28,248
184.11	12,692	28,374

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.12	12,709	28,501
184.13	12,725	28,629
184.14	12,741	28,756
184.15	12,757	28,883
184.16	12,773	29,011
184.17	12,789	29,139
184.18	12,805	29,267
184.19	12,821	29,395
184.20	12,838	29,523
184.21	12,854	29,652
184.22	12,870	29,780
184.23	12,886	29,909
184.24	12,902	30,038
184.25	12,918	30,167
184.26	12,934	30,296
184.27	12,951	30,426
184.28	12,967	30,555
184.29	12,983	30,685
184.30	12,999	30,815
184.31	13,015	30,945
184.32	13,031	31,075
184.33	13,047	31,206
184.34	13,063	31,336
184.35	13,080	31,467
184.36	13,096	31,598
184.37	13,112	31,729
184.38	13,128	31,860
184.39	13,144	31,992
184.40	13,160	32,123
184.41	13,176	32,255
184.42	13,192	32,387
184.43	13,209	32,519
184.44	13,225	32,651
184.45	13,241	32,783
184.46	13,257	32,916
184.47	13,273	33,048
184.48	13,289	33,181
184.49	13,305	33,314
184.50	13,322	33,447
184.51	13,338	33,580
184.52	13,354	33,714
184.53	13,370	33,847
184.54	13,386	33,981
184.55	13,402	34,115
184.56	13,418	34,249
184.57	13,434	34,384
184.58	13,451	34,518
184.59	13,467	34,653
184.60	13,483	34,787
184.61	13,499	34,922
184.62	13,515	35,057
184.63	13,531	35,193
184.64	13,547	35,328
184.65	13,563	35,463
184.66	13,580	35,599
184.67	13,596	35,735
184.68	13,612	35,871
184.69	13,628	36,007
184.70	13,644	36,144
184.71	13,660	36,280
184.72	13,676	36,417
184.73	13,692	36,554
184.74	13,709	36,691
184.75	13,725	36,828
184.76	13,741	36,965
184.77	13,757	37,103
184.78	13,773	37,240
184.79	13,789	37,378
184.80	13,805	37,516
184.81	13,822	37,654
184.82	13,838	37,793
184.83	13,854	37,931
184.84	13,870	38,070
184.85	13,886	38,208
184.86	13,902	38,347
184.87	13,918	38,486
184.88	13,934	38,626
184.89	13,951	38,765
184.90	13,967	38,905
184.91	13,983	39,045
184.92	13,999	39,184
184.93	14,015	39,324
184.94	14,031	39,465
184.95	14,047	39,605
184.96	14,063	39,746
184.97	14,080	39,886
184.98	14,096	40,027
184.99	14,112	40,168
185.00	14,128	40,310
185.01	14,145	40,451
185.02	14,161	40,592
185.03	14,178	40,734
185.04	14,195	40,876
185.05	14,212	41,018
185.06	14,228	41,160
185.07	14,245	41,303
185.08	14,262	41,445
185.09	14,278	41,588
185.10	14,295	41,731
185.11	14,312	41,874
185.12	14,328	42,017
185.13	14,345	42,160
185.14	14,362	42,304
185.15	14,379	42,447

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.16	14,395	42,591
185.17	14,412	42,735
185.18	14,429	42,880
185.19	14,445	43,024
185.20	14,462	43,168
185.21	14,479	43,313
185.22	14,495	43,458
185.23	14,512	43,603
185.24	14,529	43,748
185.25	14,546	43,894
185.26	14,562	44,039
185.27	14,579	44,185
185.28	14,596	44,331
185.29	14,612	44,477
185.30	14,629	44,623
185.31	14,646	44,769
185.32	14,662	44,916
185.33	14,679	45,063
185.34	14,696	45,210
185.35	14,712	45,357
185.36	14,729	45,504
185.37	14,746	45,651
185.38	14,763	45,799
185.39	14,779	45,946
185.40	14,796	46,094
185.41	14,813	46,242
185.42	14,829	46,391
185.43	14,846	46,539
185.44	14,863	46,687
185.45	14,879	46,836
185.46	14,896	46,985
185.47	14,913	47,134
185.48	14,930	47,283
185.49	14,946	47,433
185.50	14,963	47,582
185.51	14,980	47,732
185.52	14,996	47,882
185.53	15,013	48,032
185.54	15,030	48,182
185.55	15,047	48,332
185.56	15,063	48,483
185.57	15,080	48,634
185.58	15,097	48,785
185.59	15,113	48,936
185.60	15,130	49,087
185.61	15,147	49,238
185.62	15,163	49,390
185.63	15,180	49,542
185.64	15,197	49,693
185.65	15,214	49,845
185.66	15,230	49,998
185.67	15,247	50,150
185.68	15,264	50,303
185.69	15,280	50,455
185.70	15,297	50,608
185.71	15,314	50,761
185.72	15,330	50,915
185.73	15,347	51,068
185.74	15,364	51,221
185.75	15,381	51,375
185.76	15,397	51,529
185.77	15,414	51,683
185.78	15,431	51,837
185.79	15,447	51,992
185.80	15,464	52,146
185.81	15,481	52,301
185.82	15,497	52,456
185.83	15,514	52,611
185.84	15,531	52,766
185.85	15,547	52,922
185.86	15,564	53,077
185.87	15,581	53,233
185.88	15,598	53,389
185.89	15,614	53,545
185.90	15,631	53,701
185.91	15,648	53,857
185.92	15,664	54,014
185.93	15,681	54,171
185.94	15,698	54,328
185.95	15,714	54,485
185.96	15,731	54,642
185.97	15,748	54,799
185.98	15,765	54,957
185.99	15,781	55,115
186.00	15,798	55,273
186.01	15,815	55,431
186.02	15,833	55,589
186.03	15,850	55,747
186.04	15,867	55,906
186.05	15,884	56,065
186.06	15,902	56,223
186.07	15,919	56,383
186.08	15,936	56,542
186.09	15,953	56,701
186.10	15,971	56,861
186.11	15,988	57,021
186.12	16,005	57,181
186.13	16,022	57,341
186.14	16,040	57,501
186.15	16,057	57,662
186.16	16,074	57,822
186.17	16,091	57,983
186.18	16,109	58,144
186.19	16,126	58,305

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.20	16,143	58,467	186.72	17,041	67,094
186.21	16,160	58,628	186.73	17,058	67,265
186.22	16,178	58,790	186.74	17,075	67,436
186.23	16,195	58,952	186.75	17,093	67,606
186.24	16,212	59,114	186.76	17,110	67,777
186.25	16,230	59,276	186.77	17,127	67,949
186.26	16,247	59,438	186.78	17,144	68,120
186.27	16,264	59,601	186.79	17,162	68,292
186.28	16,281	59,764	186.80	17,179	68,463
186.29	16,299	59,926	186.81	17,196	68,635
186.30	16,316	60,090	186.82	17,213	68,807
186.31	16,333	60,253	186.83	17,231	68,979
186.32	16,350	60,416	186.84	17,248	69,152
186.33	16,368	60,580	186.85	17,265	69,324
186.34	16,385	60,744	186.86	17,282	69,497
186.35	16,402	60,908	186.87	17,300	69,670
186.36	16,419	61,072	186.88	17,317	69,843
186.37	16,437	61,236	186.89	17,334	70,016
186.38	16,454	61,400	186.90	17,351	70,190
186.39	16,471	61,565	186.91	17,369	70,363
186.40	16,488	61,730	186.92	17,386	70,537
186.41	16,506	61,895	186.93	17,403	70,711
186.42	16,523	62,060	186.94	17,420	70,885
186.43	16,540	62,225	186.95	17,438	71,059
186.44	16,557	62,391	186.96	17,455	71,234
186.45	16,575	62,556	186.97	17,472	71,409
186.46	16,592	62,722	186.98	17,489	71,583
186.47	16,609	62,888	186.99	17,507	71,758
186.48	16,626	63,054	187.00	17,524	71,934
186.49	16,644	63,221	187.01	17,542	72,109
186.50	16,661	63,387	187.02	17,560	72,284
186.51	16,678	63,554	187.03	17,578	72,460
186.52	16,696	63,721	187.04	17,595	72,636
186.53	16,713	63,888	187.05	17,613	72,812
186.54	16,730	64,055	187.06	17,631	72,988
186.55	16,747	64,222	187.07	17,649	73,165
186.56	16,765	64,390	187.08	17,667	73,341
186.57	16,782	64,558	187.09	17,685	73,518
186.58	16,799	64,726	187.10	17,703	73,695
186.59	16,816	64,894	187.11	17,720	73,872
186.60	16,834	65,062	187.12	17,738	74,049
186.61	16,851	65,230	187.13	17,756	74,227
186.62	16,868	65,399	187.14	17,774	74,404
186.63	16,885	65,568	187.15	17,792	74,582
186.64	16,903	65,737	187.16	17,810	74,760
186.65	16,920	65,906	187.17	17,828	74,938
186.66	16,937	66,075	187.18	17,845	75,117
186.67	16,954	66,245	187.19	17,863	75,295
186.68	16,972	66,414	187.20	17,881	75,474
186.69	16,989	66,584	187.21	17,899	75,653
186.70	17,006	66,754	187.22	17,917	75,832
186.71	17,023	66,924	187.23	17,935	76,011

Stage-Area-Storage for Pond B-46A: Basin #46A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.24	17,953	76,191
187.25	17,971	76,370
187.26	17,988	76,550
187.27	18,006	76,730
187.28	18,024	76,910
187.29	18,042	77,091
187.30	18,060	77,271
187.31	18,078	77,452
187.32	18,096	77,633
187.33	18,113	77,814
187.34	18,131	77,995
187.35	18,149	78,176
187.36	18,167	78,358
187.37	18,185	78,540
187.38	18,203	78,722
187.39	18,221	78,904
187.40	18,238	79,086
187.41	18,256	79,268
187.42	18,274	79,451
187.43	18,292	79,634
187.44	18,310	79,817
187.45	18,328	80,000
187.46	18,346	80,183
187.47	18,363	80,367
187.48	18,381	80,551
187.49	18,399	80,735
187.50	18,417	80,919
187.51	18,435	81,103
187.52	18,453	81,287
187.53	18,471	81,472
187.54	18,488	81,657
187.55	18,506	81,842
187.56	18,524	82,027
187.57	18,542	82,212
187.58	18,560	82,398
187.59	18,578	82,584
187.60	18,596	82,769
187.61	18,613	82,955
187.62	18,631	83,142
187.63	18,649	83,328
187.64	18,667	83,515
187.65	18,685	83,701
187.66	18,703	83,888
187.67	18,721	84,075
187.68	18,738	84,263
187.69	18,756	84,450
187.70	18,774	84,638
187.71	18,792	84,826
187.72	18,810	85,014
187.73	18,828	85,202
187.74	18,846	85,390
187.75	18,864	85,579
187.76	18,881	85,768
187.77	18,899	85,956
187.78	18,917	86,146
187.79	18,935	86,335
187.80	18,953	86,524
187.81	18,971	86,714
187.82	18,989	86,904
187.83	19,006	87,094
187.84	19,024	87,284
187.85	19,042	87,474
187.86	19,060	87,665
187.87	19,078	87,855
187.88	19,096	88,046
187.89	19,114	88,237
187.90	19,131	88,428
187.91	19,149	88,620
187.92	19,167	88,811
187.93	19,185	89,003
187.94	19,203	89,195
187.95	19,221	89,387
187.96	19,239	89,580
187.97	19,256	89,772
187.98	19,274	89,965
187.99	19,292	90,157
188.00	**19,310**	**90,351**

Summary for Pond B-46B: Basin #46B

Inflow Area = 2.931 ac, 39.13% Impervious, Inflow Depth = 0.47" for Future 10 yr event
Inflow = 2.02 cfs @ 12.05 hrs, Volume= 0.115 af
Outflow = 0.04 cfs @ 17.47 hrs, Volume= 0.055 af, Atten= 98%, Lag= 325.2 min
Primary = 0.04 cfs @ 17.47 hrs, Volume= 0.055 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 183.99' @ 17.47 hrs Surf.Area= 10,822 sf Storage= 3,707 cf

Plug-Flow detention time= 659.1 min calculated for 0.055 af (48% of inflow)
Center-of-Mass det. time= 539.9 min (1,367.6 - 827.7)

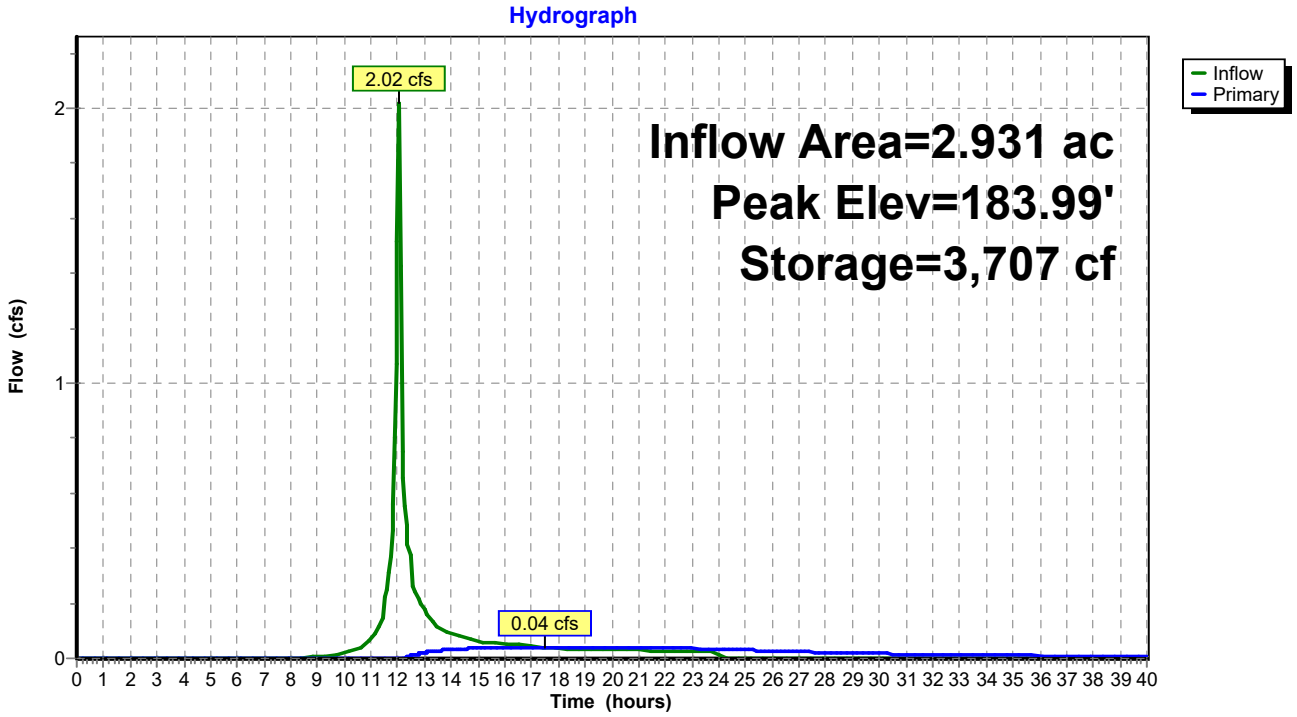
Volume	Invert	Avail.Storage	Storage Description
#1	183.30'	59,250 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
183.30	0	0	0
184.00	11,059	3,871	3,871
185.00	12,402	11,731	15,601
186.00	13,803	13,103	28,704
187.00	15,259	14,531	43,235
188.00	16,772	16,016	59,250

Device	Routing	Invert	Outlet Devices
#1	Primary	182.65'	**18.0" Round Culvert** L= 65.0' Ke= 0.500 Inlet / Outlet Invert= 182.65' / 176.00' S= 0.1023 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	183.82'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.45'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.75'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.04 cfs @ 17.47 hrs HW=183.99' (Free Discharge)
- **1=Culvert** (Passes 0.04 cfs of 6.54 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.04 cfs @ 1.38 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-46B: Basin #46B



Stage-Discharge for Pond B-46B: Basin #46B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.30	0.00	183.82	0.00	184.34	0.11	184.86	3.52
183.31	0.00	183.83	0.00	184.35	0.11	184.87	3.65
183.32	0.00	183.84	0.00	184.36	0.11	184.88	3.77
183.33	0.00	183.85	0.00	184.37	0.11	184.89	3.89
183.34	0.00	183.86	0.00	184.38	0.11	184.90	4.02
183.35	0.00	183.87	0.00	184.39	0.11	184.91	4.15
183.36	0.00	183.88	0.01	184.40	0.11	184.92	4.28
183.37	0.00	183.89	0.01	184.41	0.11	184.93	4.41
183.38	0.00	183.90	0.01	184.42	0.12	184.94	4.54
183.39	0.00	183.91	0.01	184.43	0.12	184.95	4.68
183.40	0.00	183.92	0.02	184.44	0.12	184.96	4.81
183.41	0.00	183.93	0.02	184.45	0.12	184.97	4.95
183.42	0.00	183.94	0.02	184.46	0.13	184.98	5.08
183.43	0.00	183.95	0.03	184.47	0.16	184.99	5.22
183.44	0.00	183.96	0.03	184.48	0.19	185.00	5.36
183.45	0.00	183.97	0.03	184.49	0.23	185.01	5.50
183.46	0.00	183.98	0.04	184.50	0.27	185.02	5.64
183.47	0.00	183.99	0.04	184.51	0.32	185.03	5.78
183.48	0.00	184.00	0.05	184.52	0.37	185.04	5.93
183.49	0.00	184.01	0.05	184.53	0.42	185.05	6.07
183.50	0.00	184.02	0.05	184.54	0.48	185.06	6.22
183.51	0.00	184.03	0.05	184.55	0.54	185.07	6.36
183.52	0.00	184.04	0.06	184.56	0.61	185.08	6.51
183.53	0.00	184.05	0.06	184.57	0.67	185.09	6.66
183.54	0.00	184.06	0.06	184.58	0.74	185.10	6.81
183.55	0.00	184.07	0.06	184.59	0.81	185.11	6.96
183.56	0.00	184.08	0.06	184.60	0.89	185.12	7.11
183.57	0.00	184.09	0.07	184.61	0.97	185.13	7.27
183.58	0.00	184.10	0.07	184.62	1.05	185.14	7.42
183.59	0.00	184.11	0.07	184.63	1.13	185.15	7.57
183.60	0.00	184.12	0.07	184.64	1.21	185.16	7.73
183.61	0.00	184.13	0.07	184.65	1.30	185.17	7.89
183.62	0.00	184.14	0.08	184.66	1.39	185.18	8.04
183.63	0.00	184.15	0.08	184.67	1.48	185.19	8.20
183.64	0.00	184.16	0.08	184.68	1.57	185.20	8.36
183.65	0.00	184.17	0.08	184.69	1.66	185.21	8.52
183.66	0.00	184.18	0.08	184.70	1.76	185.22	8.68
183.67	0.00	184.19	0.08	184.71	1.86	185.23	8.85
183.68	0.00	184.20	0.09	184.72	1.96	185.24	9.01
183.69	0.00	184.21	0.09	184.73	2.06	185.25	9.17
183.70	0.00	184.22	0.09	184.74	2.16	185.26	9.34
183.71	0.00	184.23	0.09	184.75	2.27	185.27	9.50
183.72	0.00	184.24	0.09	184.76	2.37	185.28	9.67
183.73	0.00	184.25	0.09	184.77	2.48	185.29	9.84
183.74	0.00	184.26	0.10	184.78	2.59	185.30	10.01
183.75	0.00	184.27	0.10	184.79	2.70	185.31	10.18
183.76	0.00	184.28	0.10	184.80	2.81	185.32	10.35
183.77	0.00	184.29	0.10	184.81	2.93	185.33	10.52
183.78	0.00	184.30	0.10	184.82	3.04	185.34	10.69
183.79	0.00	184.31	0.10	184.83	3.16	185.35	10.86
183.80	0.00	184.32	0.10	184.84	3.28	185.36	11.03
183.81	0.00	184.33	0.10	184.85	3.40	185.37	11.21

Stage-Discharge for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.38	11.38	185.90	20.30	186.42	91.01	186.94	198.59
185.39	11.56	185.91	21.03	186.43	92.75	186.95	200.94
185.40	11.74	185.92	21.78	186.44	94.51	186.96	203.32
185.41	11.91	185.93	22.55	186.45	96.28	186.97	205.72
185.42	12.09	185.94	23.34	186.46	98.06	186.98	208.13
185.43	12.12	185.95	24.15	186.47	99.86	186.99	210.55
185.44	12.15	185.96	25.03	186.48	101.66	187.00	212.98
185.45	12.18	185.97	25.92	186.49	103.49	187.01	215.43
185.46	12.21	185.98	26.85	186.50	105.32	187.02	217.88
185.47	12.24	185.99	27.80	186.51	107.16	187.03	220.34
185.48	12.27	186.00	28.77	186.52	109.02	187.04	222.82
185.49	12.30	186.01	29.77	186.53	110.89	187.05	225.30
185.50	12.33	186.02	30.80	186.54	112.77	187.06	227.79
185.51	12.36	186.03	31.85	186.55	114.67	187.07	230.30
185.52	12.39	186.04	32.92	186.56	116.61	187.08	232.82
185.53	12.42	186.05	34.02	186.57	118.57	187.09	235.34
185.54	12.45	186.06	35.14	186.58	120.54	187.10	237.88
185.55	12.48	186.07	36.29	186.59	122.52	187.11	240.42
185.56	12.51	186.08	37.46	186.60	124.52	187.12	242.98
185.57	12.53	186.09	38.66	186.61	126.53	187.13	245.55
185.58	12.56	186.10	39.88	186.62	128.55	187.14	248.13
185.59	12.59	186.11	41.12	186.63	130.58	187.15	250.71
185.60	12.62	186.12	42.39	186.64	132.63	187.16	253.36
185.61	12.65	186.13	43.68	186.65	134.69	187.17	256.01
185.62	12.68	186.14	45.00	186.66	136.77	187.18	258.67
185.63	12.71	186.15	46.34	186.67	138.85	187.19	261.35
185.64	12.73	186.16	47.73	186.68	140.95	187.20	264.04
185.65	12.76	186.17	49.15	186.69	143.07	187.21	266.74
185.66	12.79	186.18	50.59	186.70	145.19	187.22	269.45
185.67	12.82	186.19	52.06	186.71	147.33	187.23	272.17
185.68	12.85	186.20	53.56	186.72	149.48	187.24	274.90
185.69	12.88	186.21	55.08	186.73	151.64	187.25	277.64
185.70	12.90	186.22	56.63	186.74	153.82	187.26	280.39
185.71	12.93	186.23	58.20	186.75	156.01	187.27	283.16
185.72	12.96	186.24	59.80	186.76	158.15	187.28	285.93
185.73	12.99	186.25	61.43	186.77	160.31	187.29	288.72
185.74	13.02	186.26	63.08	186.78	162.48	187.30	291.52
185.75	13.04	186.27	64.76	186.79	164.66	187.31	294.32
185.76	13.19	186.28	66.47	186.80	166.85	187.32	297.14
185.77	13.43	186.29	68.20	186.81	169.05	187.33	299.97
185.78	13.74	186.30	69.96	186.82	171.26	187.34	302.81
185.79	14.09	186.31	71.75	186.83	173.48	187.35	305.67
185.80	14.49	186.32	73.56	186.84	175.71	187.36	308.53
185.81	14.93	186.33	75.40	186.85	177.95	187.37	311.40
185.82	15.41	186.34	77.27	186.86	180.21	187.38	314.29
185.83	15.92	186.35	79.16	186.87	182.47	187.39	317.18
185.84	16.46	186.36	80.82	186.88	184.74	187.40	320.09
185.85	17.04	186.37	82.48	186.89	187.03	187.41	323.00
185.86	17.64	186.38	84.16	186.90	189.32	187.42	325.93
185.87	18.26	186.39	85.85	186.91	191.62	187.43	328.87
185.88	18.92	186.40	87.56	186.92	193.94	187.44	331.82
185.89	19.60	186.41	89.27	186.93	196.26	187.45	334.78

Stage-Discharge for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Primary (cfs)
187.46	337.75
187.47	340.73
187.48	343.72
187.49	346.72
187.50	349.74
187.51	352.76
187.52	355.79
187.53	358.84
187.54	361.90
187.55	364.96
187.56	368.04
187.57	371.13
187.58	374.22
187.59	377.33
187.60	380.45
187.61	383.58
187.62	386.72
187.63	389.87
187.64	393.03
187.65	396.20
187.66	399.38
187.67	402.58
187.68	405.78
187.69	408.99
187.70	412.22
187.71	415.45
187.72	418.69
187.73	421.95
187.74	425.21
187.75	428.49
187.76	431.84
187.77	435.20
187.78	438.57
187.79	441.95
187.80	445.35
187.81	448.75
187.82	452.17
187.83	455.60
187.84	459.04
187.85	462.49
187.86	465.95
187.87	469.42
187.88	472.91
187.89	476.40
187.90	479.91
187.91	483.43
187.92	486.96
187.93	490.50
187.94	494.05
187.95	497.61
187.96	501.19
187.97	504.78
187.98	508.37
187.99	511.98
188.00	**515.60**

Stage-Area-Storage for Pond B-46B: Basin #46B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.30	0	0
183.31	158	1
183.32	316	3
183.33	474	7
183.34	632	13
183.35	790	20
183.36	948	28
183.37	1,106	39
183.38	1,264	51
183.39	1,422	64
183.40	1,580	79
183.41	1,738	96
183.42	1,896	114
183.43	2,054	133
183.44	2,212	155
183.45	2,370	178
183.46	2,528	202
183.47	2,686	228
183.48	2,844	256
183.49	3,002	285
183.50	3,160	316
183.51	3,318	348
183.52	3,476	382
183.53	3,634	418
183.54	3,792	455
183.55	3,950	494
183.56	4,108	534
183.57	4,266	576
183.58	4,424	619
183.59	4,582	664
183.60	4,740	711
183.61	4,898	759
183.62	5,056	809
183.63	5,214	860
183.64	5,372	913
183.65	5,530	968
183.66	5,687	1,024
183.67	5,845	1,081
183.68	6,003	1,141
183.69	6,161	1,201
183.70	6,319	1,264
183.71	6,477	1,328
183.72	6,635	1,393
183.73	6,793	1,461
183.74	6,951	1,529
183.75	7,109	1,600
183.76	7,267	1,671
183.77	7,425	1,745
183.78	7,583	1,820
183.79	7,741	1,897
183.80	7,899	1,975
183.81	8,057	2,055
183.82	8,215	2,136
183.83	8,373	2,219
183.84	8,531	2,303
183.85	8,689	2,390
183.86	8,847	2,477
183.87	9,005	2,566
183.88	9,163	2,657
183.89	9,321	2,750
183.90	9,479	2,844
183.91	9,637	2,939
183.92	9,795	3,036
183.93	9,953	3,135
183.94	10,111	3,236
183.95	10,269	3,337
183.96	10,427	3,441
183.97	10,585	3,546
183.98	10,743	3,653
183.99	10,901	3,761
184.00	11,059	3,871
184.01	11,072	3,981
184.02	11,086	4,092
184.03	11,099	4,203
184.04	11,113	4,314
184.05	11,126	4,425
184.06	11,140	4,537
184.07	11,153	4,648
184.08	11,166	4,760
184.09	11,180	4,871
184.10	11,193	4,983
184.11	11,207	5,095
184.12	11,220	5,207
184.13	11,234	5,320
184.14	11,247	5,432
184.15	11,260	5,545
184.16	11,274	5,657
184.17	11,287	5,770
184.18	11,301	5,883
184.19	11,314	5,996
184.20	11,328	6,109
184.21	11,341	6,223
184.22	11,354	6,336
184.23	11,368	6,450
184.24	11,381	6,563
184.25	11,395	6,677
184.26	11,408	6,791
184.27	11,422	6,906
184.28	11,435	7,020
184.29	11,448	7,134
184.30	11,462	7,249
184.31	11,475	7,363
184.32	11,489	7,478
184.33	11,502	7,593

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.34	11,516	7,708	184.86	12,214	13,878
184.35	11,529	7,824	184.87	12,227	14,000
184.36	11,542	7,939	184.88	12,241	14,123
184.37	11,556	8,054	184.89	12,254	14,245
184.38	11,569	8,170	184.90	12,268	14,368
184.39	11,583	8,286	184.91	12,281	14,490
184.40	11,596	8,402	184.92	12,295	14,613
184.41	11,610	8,518	184.93	12,308	14,736
184.42	11,623	8,634	184.94	12,321	14,859
184.43	11,636	8,750	184.95	12,335	14,983
184.44	11,650	8,867	184.96	12,348	15,106
184.45	11,663	8,983	184.97	12,362	15,230
184.46	11,677	9,100	184.98	12,375	15,353
184.47	11,690	9,217	184.99	12,389	15,477
184.48	11,704	9,334	185.00	12,402	15,601
184.49	11,717	9,451	185.01	12,416	15,725
184.50	11,731	9,568	185.02	12,430	15,849
184.51	11,744	9,685	185.03	12,444	15,974
184.52	11,757	9,803	185.04	12,458	16,098
184.53	11,771	9,921	185.05	12,472	16,223
184.54	11,784	10,038	185.06	12,486	16,348
184.55	11,798	10,156	185.07	12,500	16,473
184.56	11,811	10,274	185.08	12,514	16,598
184.57	11,825	10,392	185.09	12,528	16,723
184.58	11,838	10,511	185.10	12,542	16,848
184.59	11,851	10,629	185.11	12,556	16,974
184.60	11,865	10,748	185.12	12,570	17,099
184.61	11,878	10,867	185.13	12,584	17,225
184.62	11,892	10,985	185.14	12,598	17,351
184.63	11,905	11,104	185.15	12,612	17,477
184.64	11,919	11,223	185.16	12,626	17,603
184.65	11,932	11,343	185.17	12,640	17,730
184.66	11,945	11,462	185.18	12,654	17,856
184.67	11,959	11,582	185.19	12,668	17,983
184.68	11,972	11,701	185.20	12,682	18,110
184.69	11,986	11,821	185.21	12,696	18,236
184.70	11,999	11,941	185.22	12,710	18,363
184.71	12,013	12,061	185.23	12,724	18,491
184.72	12,026	12,181	185.24	12,738	18,618
184.73	12,039	12,302	185.25	12,752	18,745
184.74	12,053	12,422	185.26	12,766	18,873
184.75	12,066	12,543	185.27	12,780	19,001
184.76	12,080	12,663	185.28	12,794	19,129
184.77	12,093	12,784	185.29	12,808	19,257
184.78	12,107	12,905	185.30	12,822	19,385
184.79	12,120	13,026	185.31	12,836	19,513
184.80	12,133	13,148	185.32	12,850	19,642
184.81	12,147	13,269	185.33	12,864	19,770
184.82	12,160	13,391	185.34	12,878	19,899
184.83	12,174	13,512	185.35	12,892	20,028
184.84	12,187	13,634	185.36	12,906	20,157
184.85	12,201	13,756	185.37	12,920	20,286

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.38	12,934	20,415	185.90	13,663	27,330
185.39	12,948	20,544	185.91	13,677	27,467
185.40	12,962	20,674	185.92	13,691	27,604
185.41	12,976	20,804	185.93	13,705	27,741
185.42	12,990	20,934	185.94	13,719	27,878
185.43	13,004	21,064	185.95	13,733	28,015
185.44	13,018	21,194	185.96	13,747	28,153
185.45	13,032	21,324	185.97	13,761	28,290
185.46	13,046	21,454	185.98	13,775	28,428
185.47	13,060	21,585	185.99	13,789	28,566
185.48	13,074	21,716	186.00	13,803	28,704
185.49	13,088	21,846	186.01	13,818	28,842
185.50	13,103	21,977	186.02	13,832	28,980
185.51	13,117	22,108	186.03	13,847	29,118
185.52	13,131	22,240	186.04	13,861	29,257
185.53	13,145	22,371	186.05	13,876	29,396
185.54	13,159	22,502	186.06	13,890	29,534
185.55	13,173	22,634	186.07	13,905	29,673
185.56	13,187	22,766	186.08	13,919	29,813
185.57	13,201	22,898	186.09	13,934	29,952
185.58	13,215	23,030	186.10	13,949	30,091
185.59	13,229	23,162	186.11	13,963	30,231
185.60	13,243	23,295	186.12	13,978	30,370
185.61	13,257	23,427	186.13	13,992	30,510
185.62	13,271	23,560	186.14	14,007	30,650
185.63	13,285	23,692	186.15	14,021	30,790
185.64	13,299	23,825	186.16	14,036	30,931
185.65	13,313	23,958	186.17	14,051	31,071
185.66	13,327	24,092	186.18	14,065	31,212
185.67	13,341	24,225	186.19	14,080	31,353
185.68	13,355	24,358	186.20	14,094	31,493
185.69	13,369	24,492	186.21	14,109	31,634
185.70	13,383	24,626	186.22	14,123	31,776
185.71	13,397	24,760	186.23	14,138	31,917
185.72	13,411	24,894	186.24	14,152	32,058
185.73	13,425	25,028	186.25	14,167	32,200
185.74	13,439	25,162	186.26	14,182	32,342
185.75	13,453	25,297	186.27	14,196	32,484
185.76	13,467	25,431	186.28	14,211	32,626
185.77	13,481	25,566	186.29	14,225	32,768
185.78	13,495	25,701	186.30	14,240	32,910
185.79	13,509	25,836	186.31	14,254	33,053
185.80	13,523	25,971	186.32	14,269	33,195
185.81	13,537	26,106	186.33	14,283	33,338
185.82	13,551	26,242	186.34	14,298	33,481
185.83	13,565	26,377	186.35	14,313	33,624
185.84	13,579	26,513	186.36	14,327	33,767
185.85	13,593	26,649	186.37	14,342	33,910
185.86	13,607	26,785	186.38	14,356	34,054
185.87	13,621	26,921	186.39	14,371	34,198
185.88	13,635	27,057	186.40	14,385	34,341
185.89	13,649	27,194	186.41	14,400	34,485

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.42	14,415	34,629
186.43	14,429	34,774
186.44	14,444	34,918
186.45	14,458	35,062
186.46	14,473	35,207
186.47	14,487	35,352
186.48	14,502	35,497
186.49	14,516	35,642
186.50	14,531	35,787
186.51	14,546	35,933
186.52	14,560	36,078
186.53	14,575	36,224
186.54	14,589	36,370
186.55	14,604	36,516
186.56	14,618	36,662
186.57	14,633	36,808
186.58	14,647	36,954
186.59	14,662	37,101
186.60	14,677	37,248
186.61	14,691	37,394
186.62	14,706	37,541
186.63	14,720	37,688
186.64	14,735	37,836
186.65	14,749	37,983
186.66	14,764	38,131
186.67	14,779	38,278
186.68	14,793	38,426
186.69	14,808	38,574
186.70	14,822	38,722
186.71	14,837	38,871
186.72	14,851	39,019
186.73	14,866	39,168
186.74	14,880	39,317
186.75	14,895	39,465
186.76	14,910	39,614
186.77	14,924	39,764
186.78	14,939	39,913
186.79	14,953	40,062
186.80	14,968	40,212
186.81	14,982	40,362
186.82	14,997	40,512
186.83	15,011	40,662
186.84	15,026	40,812
186.85	15,041	40,962
186.86	15,055	41,113
186.87	15,070	41,263
186.88	15,084	41,414
186.89	15,099	41,565
186.90	15,113	41,716
186.91	15,128	41,867
186.92	15,143	42,019
186.93	15,157	42,170
186.94	15,172	42,322
186.95	15,186	42,474
186.96	15,201	42,625
186.97	15,215	42,778
186.98	15,230	42,930
186.99	15,244	43,082
187.00	15,259	43,235
187.01	15,274	43,387
187.02	15,289	43,540
187.03	15,304	43,693
187.04	15,320	43,846
187.05	15,335	43,999
187.06	15,350	44,153
187.07	15,365	44,306
187.08	15,380	44,460
187.09	15,395	44,614
187.10	15,410	44,768
187.11	15,425	44,922
187.12	15,441	45,077
187.13	15,456	45,231
187.14	15,471	45,386
187.15	15,486	45,541
187.16	15,501	45,695
187.17	15,516	45,851
187.18	15,531	46,006
187.19	15,546	46,161
187.20	15,562	46,317
187.21	15,577	46,472
187.22	15,592	46,628
187.23	15,607	46,784
187.24	15,622	46,940
187.25	15,637	47,097
187.26	15,652	47,253
187.27	15,668	47,410
187.28	15,683	47,566
187.29	15,698	47,723
187.30	15,713	47,880
187.31	15,728	48,038
187.32	15,743	48,195
187.33	15,758	48,353
187.34	15,773	48,510
187.35	15,789	48,668
187.36	15,804	48,826
187.37	15,819	48,984
187.38	15,834	49,142
187.39	15,849	49,301
187.40	15,864	49,459
187.41	15,879	49,618
187.42	15,894	49,777
187.43	15,910	49,936
187.44	15,925	50,095
187.45	15,940	50,254

Stage-Area-Storage for Pond B-46B: Basin #46B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.46	15,955	50,414
187.47	15,970	50,573
187.48	15,985	50,733
187.49	16,000	50,893
187.50	16,016	51,053
187.51	16,031	51,214
187.52	16,046	51,374
187.53	16,061	51,534
187.54	16,076	51,695
187.55	16,091	51,856
187.56	16,106	52,017
187.57	16,121	52,178
187.58	16,137	52,339
187.59	16,152	52,501
187.60	16,167	52,662
187.61	16,182	52,824
187.62	16,197	52,986
187.63	16,212	53,148
187.64	16,227	53,310
187.65	16,242	53,473
187.66	16,258	53,635
187.67	16,273	53,798
187.68	16,288	53,961
187.69	16,303	54,124
187.70	16,318	54,287
187.71	16,333	54,450
187.72	16,348	54,613
187.73	16,363	54,777
187.74	16,379	54,941
187.75	16,394	55,104
187.76	16,409	55,268
187.77	16,424	55,433
187.78	16,439	55,597
187.79	16,454	55,761
187.80	16,469	55,926
187.81	16,485	56,091
187.82	16,500	56,256
187.83	16,515	56,421
187.84	16,530	56,586
187.85	16,545	56,751
187.86	16,560	56,917
187.87	16,575	57,083
187.88	16,590	57,248
187.89	16,606	57,414
187.90	16,621	57,581
187.91	16,636	57,747
187.92	16,651	57,913
187.93	16,666	58,080
187.94	16,681	58,247
187.95	16,696	58,413
187.96	16,711	58,580
187.97	16,727	58,748
187.98	16,742	58,915
187.99	16,757	59,083
188.00	**16,772**	**59,250**

Summary for Pond B-47: Basin #47

Inflow Area = 2.436 ac, 30.62% Impervious, Inflow Depth = 3.84" for Future 10 yr event
Inflow = 9.70 cfs @ 12.17 hrs, Volume= 0.780 af
Outflow = 0.80 cfs @ 13.44 hrs, Volume= 0.484 af, Atten= 92%, Lag= 75.8 min
Primary = 0.80 cfs @ 13.44 hrs, Volume= 0.484 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 189.66' @ 13.44 hrs Surf.Area= 22,588 sf Storage= 21,875 cf

Plug-Flow detention time= 577.1 min calculated for 0.484 af (62% of inflow)
Center-of-Mass det. time= 465.8 min (1,263.9 - 798.0)

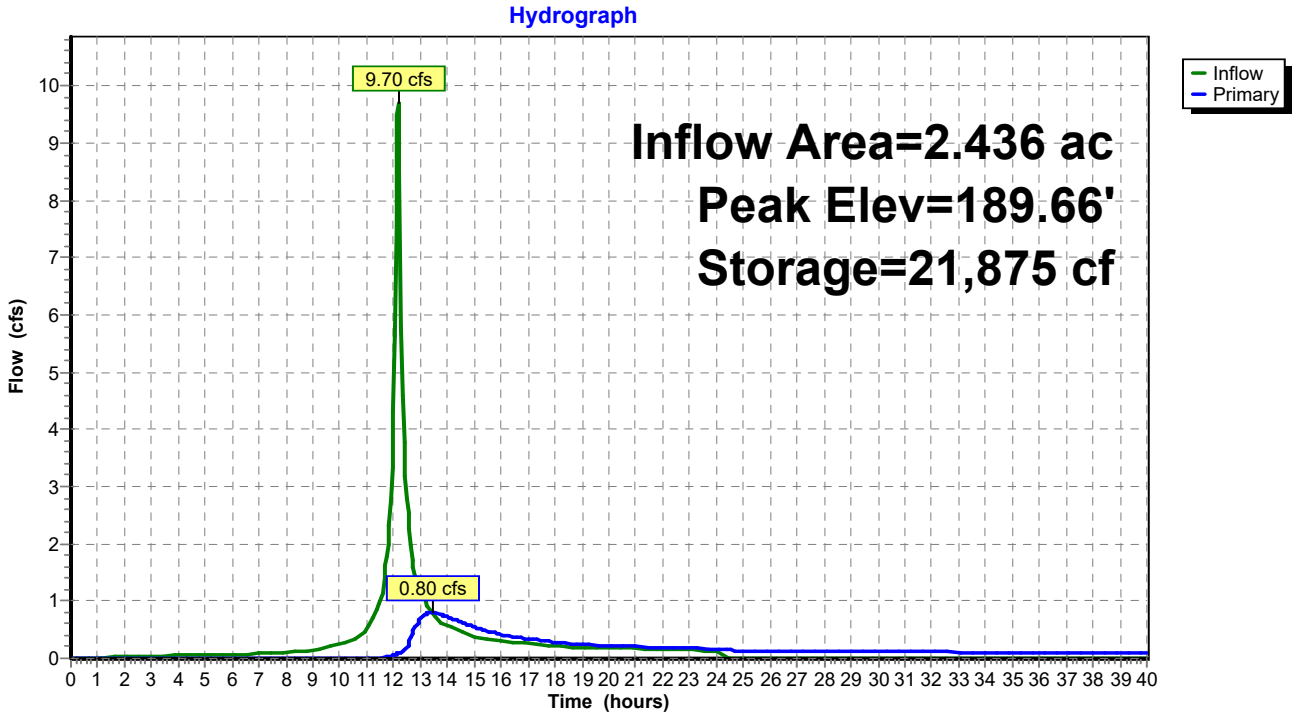
Volume	Invert	Avail.Storage	Storage Description
#1	188.30'	80,305 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
188.30	0	0	0
189.00	21,318	7,461	7,461
190.00	23,252	22,285	29,746
191.00	25,242	24,247	53,993
192.00	27,382	26,312	80,305

Device	Routing	Invert	Outlet Devices
#1	Primary	187.65'	**18.0" Round Culvert** L= 62.0' Ke= 0.500 Inlet / Outlet Invert= 187.65' / 184.00' S= 0.0589 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	188.84'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	189.52'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	190.51'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.79 cfs @ 13.44 hrs HW=189.66' (Free Discharge)
- **1=Culvert** (Passes 0.79 cfs of 9.54 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.14 cfs @ 4.06 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.66 cfs @ 1.21 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-47: Basin #47



Stage-Discharge for Pond B-47: Basin #47

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
188.30	0.00	188.82	0.00	189.34	0.10	189.86	2.71
188.31	0.00	188.83	0.00	189.35	0.10	189.87	2.82
188.32	0.00	188.84	0.00	189.36	0.11	189.88	2.93
188.33	0.00	188.85	0.00	189.37	0.11	189.89	3.05
188.34	0.00	188.86	0.00	189.38	0.11	189.90	3.17
188.35	0.00	188.87	0.00	189.39	0.11	189.91	3.28
188.36	0.00	188.88	0.00	189.40	0.11	189.92	3.40
188.37	0.00	188.89	0.00	189.41	0.11	189.93	3.53
188.38	0.00	188.90	0.01	189.42	0.11	189.94	3.65
188.39	0.00	188.91	0.01	189.43	0.11	189.95	3.77
188.40	0.00	188.92	0.01	189.44	0.12	189.96	3.90
188.41	0.00	188.93	0.01	189.45	0.12	189.97	4.03
188.42	0.00	188.94	0.02	189.46	0.12	189.98	4.15
188.43	0.00	188.95	0.02	189.47	0.12	189.99	4.28
188.44	0.00	188.96	0.02	189.48	0.12	190.00	4.41
188.45	0.00	188.97	0.03	189.49	0.12	190.01	4.55
188.46	0.00	188.98	0.03	189.50	0.12	190.02	4.68
188.47	0.00	188.99	0.03	189.51	0.12	190.03	4.81
188.48	0.00	189.00	0.04	189.52	0.12	190.04	4.95
188.49	0.00	189.01	0.04	189.53	0.14	190.05	5.09
188.50	0.00	189.02	0.05	189.54	0.16	190.06	5.22
188.51	0.00	189.03	0.05	189.55	0.20	190.07	5.36
188.52	0.00	189.04	0.05	189.56	0.23	190.08	5.50
188.53	0.00	189.05	0.05	189.57	0.28	190.09	5.64
188.54	0.00	189.06	0.06	189.58	0.32	190.10	5.79
188.55	0.00	189.07	0.06	189.59	0.37	190.11	5.93
188.56	0.00	189.08	0.06	189.60	0.43	190.12	6.07
188.57	0.00	189.09	0.06	189.61	0.49	190.13	6.22
188.58	0.00	189.10	0.06	189.62	0.55	190.14	6.37
188.59	0.00	189.11	0.07	189.63	0.61	190.15	6.51
188.60	0.00	189.12	0.07	189.64	0.68	190.16	6.66
188.61	0.00	189.13	0.07	189.65	0.75	190.17	6.81
188.62	0.00	189.14	0.07	189.66	0.82	190.18	6.96
188.63	0.00	189.15	0.07	189.67	0.89	190.19	7.12
188.64	0.00	189.16	0.08	189.68	0.97	190.20	7.27
188.65	0.00	189.17	0.08	189.69	1.05	190.21	7.42
188.66	0.00	189.18	0.08	189.70	1.13	190.22	7.58
188.67	0.00	189.19	0.08	189.71	1.22	190.23	7.73
188.68	0.00	189.20	0.08	189.72	1.30	190.24	7.89
188.69	0.00	189.21	0.08	189.73	1.39	190.25	8.05
188.70	0.00	189.22	0.09	189.74	1.48	190.26	8.21
188.71	0.00	189.23	0.09	189.75	1.57	190.27	8.37
188.72	0.00	189.24	0.09	189.76	1.67	190.28	8.53
188.73	0.00	189.25	0.09	189.77	1.76	190.29	8.69
188.74	0.00	189.26	0.09	189.78	1.86	190.30	8.85
188.75	0.00	189.27	0.09	189.79	1.96	190.31	9.01
188.76	0.00	189.28	0.10	189.80	2.06	190.32	9.18
188.77	0.00	189.29	0.10	189.81	2.17	190.33	9.34
188.78	0.00	189.30	0.10	189.82	2.27	190.34	9.51
188.79	0.00	189.31	0.10	189.83	2.38	190.35	9.67
188.80	0.00	189.32	0.10	189.84	2.49	190.36	9.84
188.81	0.00	189.33	0.10	189.85	2.59	190.37	10.01

Stage-Discharge for Pond B-47: Basin #47 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.38	10.18	190.90	44.37	191.42	136.19	191.94	258.14
190.39	10.35	190.91	45.71	191.43	138.28	191.95	260.82
190.40	10.52	190.92	47.10	191.44	140.38	191.96	263.51
190.41	10.69	190.93	48.52	191.45	142.49	191.97	266.20
190.42	10.86	190.94	49.97	191.46	144.62	191.98	268.91
190.43	11.04	190.95	51.44	191.47	146.76	191.99	271.64
190.44	11.21	190.96	52.93	191.48	148.91	192.00	**274.37**
190.45	11.39	190.97	54.46	191.49	151.07		
190.46	11.56	190.98	56.01	191.50	153.25		
190.47	11.74	190.99	57.58	191.51	155.44		
190.48	11.92	191.00	59.18	191.52	157.59		
190.49	12.09	191.01	60.81	191.53	159.74		
190.50	12.27	191.02	62.47	191.54	161.91		
190.51	12.36	191.03	64.15	191.55	164.09		
190.52	12.51	191.04	65.85	191.56	166.28		
190.53	12.75	191.05	67.59	191.57	168.49		
190.54	13.06	191.06	69.35	191.58	170.70		
190.55	13.41	191.07	71.14	191.59	172.92		
190.56	13.82	191.08	72.95	191.60	175.15		
190.57	14.26	191.09	74.79	191.61	177.39		
190.58	14.74	191.10	76.66	191.62	179.65		
190.59	15.25	191.11	78.56	191.63	181.91		
190.60	15.79	191.12	80.21	191.64	184.18		
190.61	16.37	191.13	81.88	191.65	186.47		
190.62	16.97	191.14	83.55	191.66	188.76		
190.63	17.60	191.15	85.25	191.67	191.07		
190.64	18.25	191.16	86.95	191.68	193.38		
190.65	18.93	191.17	88.67	191.69	195.71		
190.66	19.64	191.18	90.41	191.70	198.04		
190.67	20.37	191.19	92.15	191.71	200.38		
190.68	21.12	191.20	93.91	191.72	202.77		
190.69	21.89	191.21	95.68	191.73	205.17		
190.70	22.68	191.22	97.47	191.74	207.58		
190.71	23.50	191.23	99.26	191.75	210.01		
190.72	24.37	191.24	101.07	191.76	212.44		
190.73	25.27	191.25	102.89	191.77	214.88		
190.74	26.20	191.26	104.73	191.78	217.33		
190.75	27.15	191.27	106.57	191.79	219.80		
190.76	28.12	191.28	108.43	191.80	222.27		
190.77	29.13	191.29	110.30	191.81	224.76		
190.78	30.15	191.30	112.18	191.82	227.25		
190.79	31.20	191.31	114.08	191.83	229.76		
190.80	32.28	191.32	116.02	191.84	232.27		
190.81	33.38	191.33	117.98	191.85	234.80		
190.82	34.50	191.34	119.95	191.86	237.34		
190.83	35.65	191.35	121.94	191.87	239.88		
190.84	36.82	191.36	123.93	191.88	242.44		
190.85	38.02	191.37	125.94	191.89	245.01		
190.86	39.24	191.38	127.97	191.90	247.59		
190.87	40.49	191.39	130.00	191.91	250.18		
190.88	41.76	191.40	132.05	191.92	252.82		
190.89	43.05	191.41	134.12	191.93	255.48		

Stage-Area-Storage for Pond B-47: Basin #47

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
188.30	0	0
188.31	305	2
188.32	609	6
188.33	914	14
188.34	1,218	24
188.35	1,523	38
188.36	1,827	55
188.37	2,132	75
188.38	2,436	97
188.39	2,741	123
188.40	3,045	152
188.41	3,350	184
188.42	3,655	219
188.43	3,959	257
188.44	4,264	298
188.45	4,568	343
188.46	4,873	390
188.47	5,177	440
188.48	5,482	493
188.49	5,786	550
188.50	6,091	609
188.51	6,395	672
188.52	6,700	737
188.53	7,004	806
188.54	7,309	877
188.55	7,614	952
188.56	7,918	1,029
188.57	8,223	1,110
188.58	8,527	1,194
188.59	8,832	1,281
188.60	9,136	1,370
188.61	9,441	1,463
188.62	9,745	1,559
188.63	10,050	1,658
188.64	10,354	1,760
188.65	10,659	1,865
188.66	10,964	1,973
188.67	11,268	2,085
188.68	11,573	2,199
188.69	11,877	2,316
188.70	12,182	2,436
188.71	12,486	2,560
188.72	12,791	2,686
188.73	13,095	2,815
188.74	13,400	2,948
188.75	13,704	3,083
188.76	14,009	3,222
188.77	14,314	3,364
188.78	14,618	3,508
188.79	14,923	3,656
188.80	15,227	3,807
188.81	15,532	3,961
188.82	15,836	4,117
188.83	16,141	4,277
188.84	16,445	4,440
188.85	16,750	4,606
188.86	17,054	4,775
188.87	17,359	4,947
188.88	17,663	5,122
188.89	17,968	5,301
188.90	18,273	5,482
188.91	18,577	5,666
188.92	18,882	5,853
188.93	19,186	6,044
188.94	19,491	6,237
188.95	19,795	6,433
188.96	20,100	6,633
188.97	20,404	6,835
188.98	20,709	7,041
188.99	21,013	7,250
189.00	21,318	7,461
189.01	21,337	7,675
189.02	21,357	7,888
189.03	21,376	8,102
189.04	21,395	8,316
189.05	21,415	8,530
189.06	21,434	8,744
189.07	21,453	8,958
189.08	21,473	9,173
189.09	21,492	9,388
189.10	21,511	9,603
189.11	21,531	9,818
189.12	21,550	10,033
189.13	21,569	10,249
189.14	21,589	10,465
189.15	21,608	10,681
189.16	21,627	10,897
189.17	21,647	11,113
189.18	21,666	11,330
189.19	21,685	11,547
189.20	21,705	11,764
189.21	21,724	11,981
189.22	21,743	12,198
189.23	21,763	12,416
189.24	21,782	12,633
189.25	21,802	12,851
189.26	21,821	13,069
189.27	21,840	13,288
189.28	21,860	13,506
189.29	21,879	13,725
189.30	21,898	13,944
189.31	21,918	14,163
189.32	21,937	14,382
189.33	21,956	14,602

Stage-Area-Storage for Pond B-47: Basin #47 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
189.34	21,976	14,821	189.86	22,981	26,510
189.35	21,995	15,041	189.87	23,001	26,740
189.36	22,014	15,261	189.88	23,020	26,970
189.37	22,034	15,481	189.89	23,039	27,200
189.38	22,053	15,702	189.90	23,059	27,431
189.39	22,072	15,922	189.91	23,078	27,661
189.40	22,092	16,143	189.92	23,097	27,892
189.41	22,111	16,364	189.93	23,117	28,123
189.42	22,130	16,585	189.94	23,136	28,355
189.43	22,150	16,807	189.95	23,155	28,586
189.44	22,169	17,028	189.96	23,175	28,818
189.45	22,188	17,250	189.97	23,194	29,050
189.46	22,208	17,472	189.98	23,213	29,282
189.47	22,227	17,694	189.99	23,233	29,514
189.48	22,246	17,917	190.00	23,252	29,746
189.49	22,266	18,139	190.01	23,272	29,979
189.50	22,285	18,362	190.02	23,292	30,212
189.51	22,304	18,585	190.03	23,312	30,445
189.52	22,324	18,808	190.04	23,332	30,678
189.53	22,343	19,031	190.05	23,352	30,911
189.54	22,362	19,255	190.06	23,371	31,145
189.55	22,382	19,479	190.07	23,391	31,379
189.56	22,401	19,703	190.08	23,411	31,613
189.57	22,420	19,927	190.09	23,431	31,847
189.58	22,440	20,151	190.10	23,451	32,081
189.59	22,459	20,376	190.11	23,471	32,316
189.60	22,478	20,600	190.12	23,491	32,551
189.61	22,498	20,825	190.13	23,511	32,786
189.62	22,517	21,050	190.14	23,531	33,021
189.63	22,536	21,275	190.15	23,551	33,256
189.64	22,556	21,501	190.16	23,570	33,492
189.65	22,575	21,727	190.17	23,590	33,728
189.66	22,594	21,952	190.18	23,610	33,964
189.67	22,614	22,178	190.19	23,630	34,200
189.68	22,633	22,405	190.20	23,650	34,437
189.69	22,652	22,631	190.21	23,670	34,673
189.70	22,672	22,858	190.22	23,690	34,910
189.71	22,691	23,085	190.23	23,710	35,147
189.72	22,710	23,312	190.24	23,730	35,384
189.73	22,730	23,539	190.25	23,750	35,621
189.74	22,749	23,766	190.26	23,769	35,859
189.75	22,769	23,994	190.27	23,789	36,097
189.76	22,788	24,222	190.28	23,809	36,335
189.77	22,807	24,449	190.29	23,829	36,573
189.78	22,827	24,678	190.30	23,849	36,811
189.79	22,846	24,906	190.31	23,869	37,050
189.80	22,865	25,135	190.32	23,889	37,289
189.81	22,885	25,363	190.33	23,909	37,528
189.82	22,904	25,592	190.34	23,929	37,767
189.83	22,923	25,821	190.35	23,949	38,006
189.84	22,943	26,051	190.36	23,968	38,246
189.85	22,962	26,280	190.37	23,988	38,486

Stage-Area-Storage for Pond B-47: Basin #47 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.38	24,008	38,726	190.90	25,043	51,479
190.39	24,028	38,966	190.91	25,063	51,730
190.40	24,048	39,206	190.92	25,083	51,980
190.41	24,068	39,447	190.93	25,103	52,231
190.42	24,088	39,688	190.94	25,123	52,482
190.43	24,108	39,929	190.95	25,143	52,734
190.44	24,128	40,170	190.96	25,162	52,985
190.45	24,148	40,411	190.97	25,182	53,237
190.46	24,167	40,653	190.98	25,202	53,489
190.47	24,187	40,895	190.99	25,222	53,741
190.48	24,207	41,137	191.00	25,242	53,993
190.49	24,227	41,379	191.01	25,263	54,246
190.50	24,247	41,621	191.02	25,285	54,499
190.51	24,267	41,864	191.03	25,306	54,752
190.52	24,287	42,106	191.04	25,328	55,005
190.53	24,307	42,349	191.05	25,349	55,258
190.54	24,327	42,593	191.06	25,370	55,512
190.55	24,347	42,836	191.07	25,392	55,765
190.56	24,366	43,079	191.08	25,413	56,020
190.57	24,386	43,323	191.09	25,435	56,274
190.58	24,406	43,567	191.10	25,456	56,528
190.59	24,426	43,811	191.11	25,477	56,783
190.60	24,446	44,056	191.12	25,499	57,038
190.61	24,466	44,300	191.13	25,520	57,293
190.62	24,486	44,545	191.14	25,542	57,548
190.63	24,506	44,790	191.15	25,563	57,804
190.64	24,526	45,035	191.16	25,584	58,059
190.65	24,546	45,280	191.17	25,606	58,315
190.66	24,565	45,526	191.18	25,627	58,572
190.67	24,585	45,772	191.19	25,649	58,828
190.68	24,605	46,018	191.20	25,670	59,085
190.69	24,625	46,264	191.21	25,691	59,341
190.70	24,645	46,510	191.22	25,713	59,598
190.71	24,665	46,757	191.23	25,734	59,856
190.72	24,685	47,004	191.24	25,756	60,113
190.73	24,705	47,250	191.25	25,777	60,371
190.74	24,725	47,498	191.26	25,798	60,629
190.75	24,745	47,745	191.27	25,820	60,887
190.76	24,764	47,993	191.28	25,841	61,145
190.77	24,784	48,240	191.29	25,863	61,403
190.78	24,804	48,488	191.30	25,884	61,662
190.79	24,824	48,736	191.31	25,905	61,921
190.80	24,844	48,985	191.32	25,927	62,180
190.81	24,864	49,233	191.33	25,948	62,440
190.82	24,884	49,482	191.34	25,970	62,699
190.83	24,904	49,731	191.35	25,991	62,959
190.84	24,924	49,980	191.36	26,012	63,219
190.85	24,944	50,229	191.37	26,034	63,479
190.86	24,963	50,479	191.38	26,055	63,740
190.87	24,983	50,729	191.39	26,077	64,000
190.88	25,003	50,979	191.40	26,098	64,261
190.89	25,023	51,229	191.41	26,119	64,522

Stage-Area-Storage for Pond B-47: Basin #47 (continued)

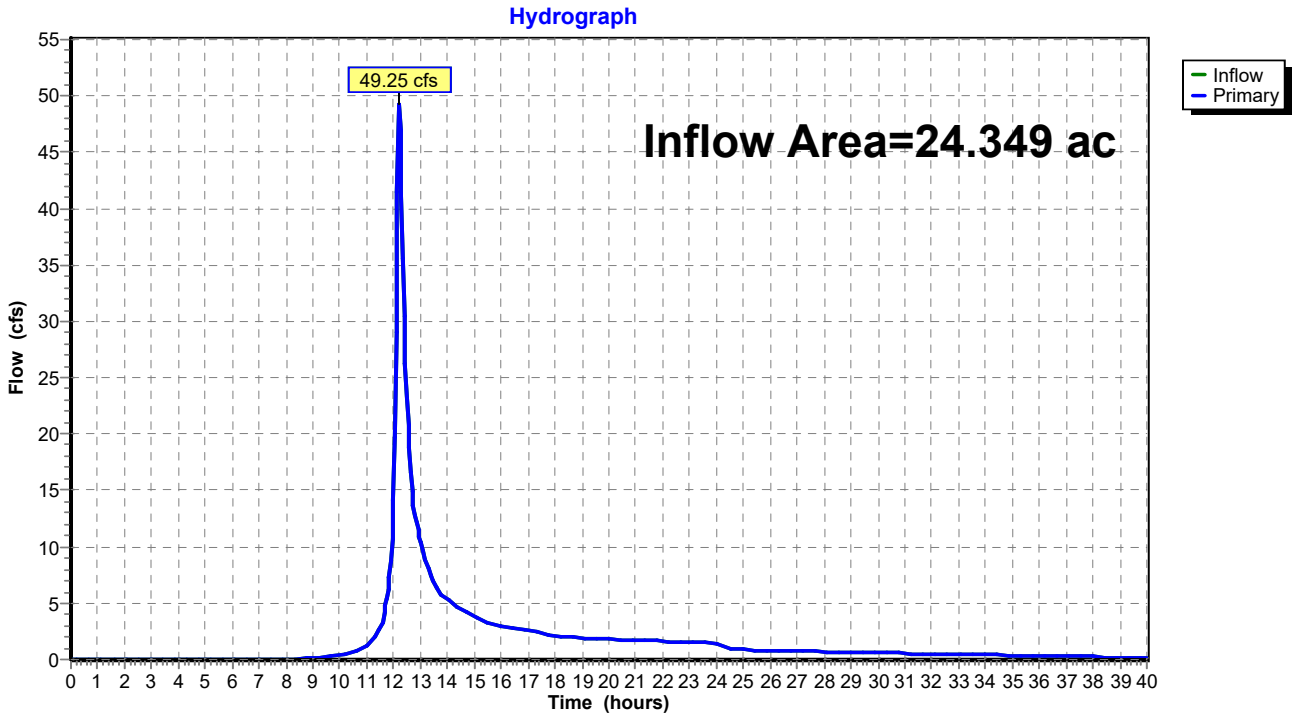
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.42	26,141	64,784
191.43	26,162	65,045
191.44	26,184	65,307
191.45	26,205	65,569
191.46	26,226	65,831
191.47	26,248	66,093
191.48	26,269	66,356
191.49	26,291	66,619
191.50	26,312	66,882
191.51	26,333	67,145
191.52	26,355	67,408
191.53	26,376	67,672
191.54	26,398	67,936
191.55	26,419	68,200
191.56	26,440	68,464
191.57	26,462	68,729
191.58	26,483	68,994
191.59	26,505	69,259
191.60	26,526	69,524
191.61	26,547	69,789
191.62	26,569	70,055
191.63	26,590	70,320
191.64	26,612	70,586
191.65	26,633	70,853
191.66	26,654	71,119
191.67	26,676	71,386
191.68	26,697	71,653
191.69	26,719	71,920
191.70	26,740	72,187
191.71	26,761	72,455
191.72	26,783	72,722
191.73	26,804	72,990
191.74	26,826	73,258
191.75	26,847	73,527
191.76	26,868	73,795
191.77	26,890	74,064
191.78	26,911	74,333
191.79	26,933	74,602
191.80	26,954	74,872
191.81	26,975	75,141
191.82	26,997	75,411
191.83	27,018	75,681
191.84	27,040	75,952
191.85	27,061	76,222
191.86	27,082	76,493
191.87	27,104	76,764
191.88	27,125	77,035
191.89	27,147	77,306
191.90	27,168	77,578
191.91	27,189	77,850
191.92	27,211	78,122
191.93	27,232	78,394
191.94	27,254	78,666
191.95	27,275	78,939
191.96	27,296	79,212
191.97	27,318	79,485
191.98	27,339	79,758
191.99	27,361	80,032
192.00	**27,382**	**80,305**

Summary for Link PDA-4: Proposed Drainage Area #4

Inflow Area = 24.349 ac, 23.20% Impervious, Inflow Depth > 2.78" for Future 10 yr event
Inflow = 49.25 cfs @ 12.21 hrs, Volume= 5.632 af
Primary = 49.25 cfs @ 12.21 hrs, Volume= 5.632 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-4: Proposed Drainage Area #4



Summary for Subcatchment 41I: PDA-41 (impervious)

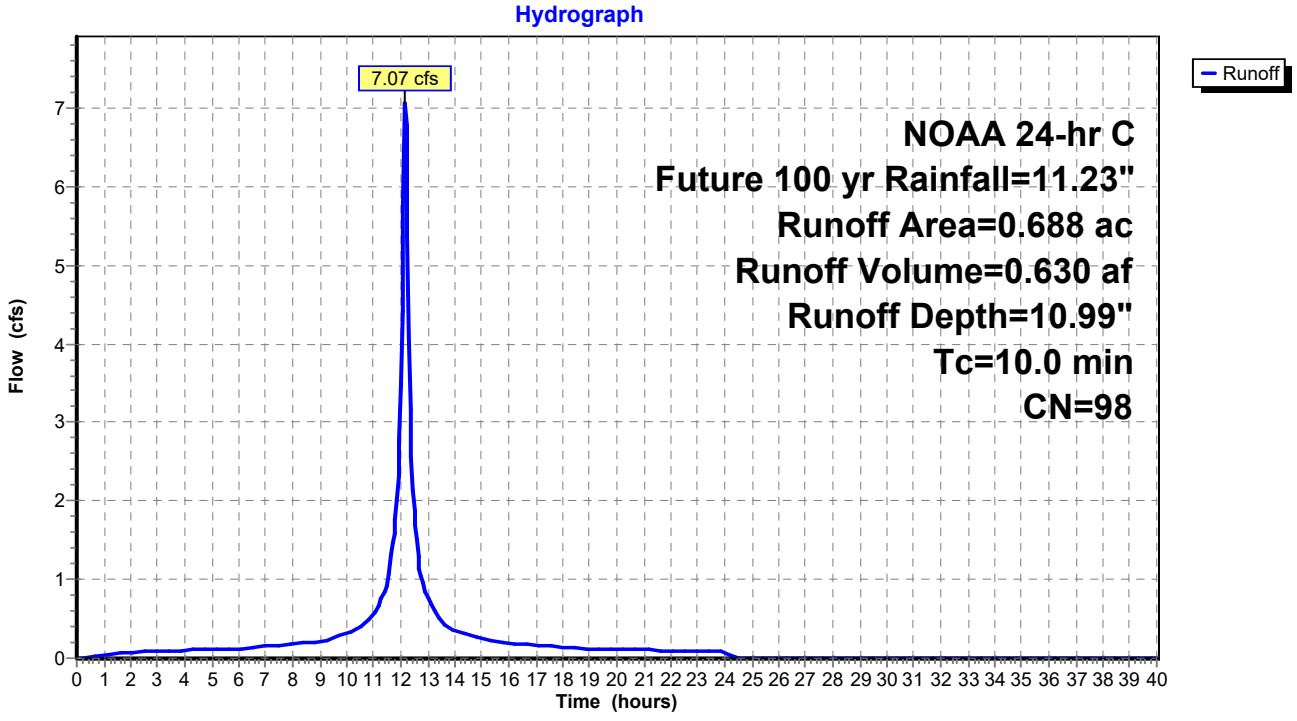
Runoff = 7.07 cfs @ 12.17 hrs, Volume= 0.630 af, Depth=10.99"
Routed to Pond B-41 : Basin #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.136	98	Pavement, HSG C
*	0.514	98	Roof, HSG C
*	0.038	98	Concrete, HSC C
	0.688	98	Weighted Average
	0.688		100.00% Impervious Area

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

Subcatchment 41I: PDA-41 (impervious)



Summary for Subcatchment 41P: PDA-41 (pervious)

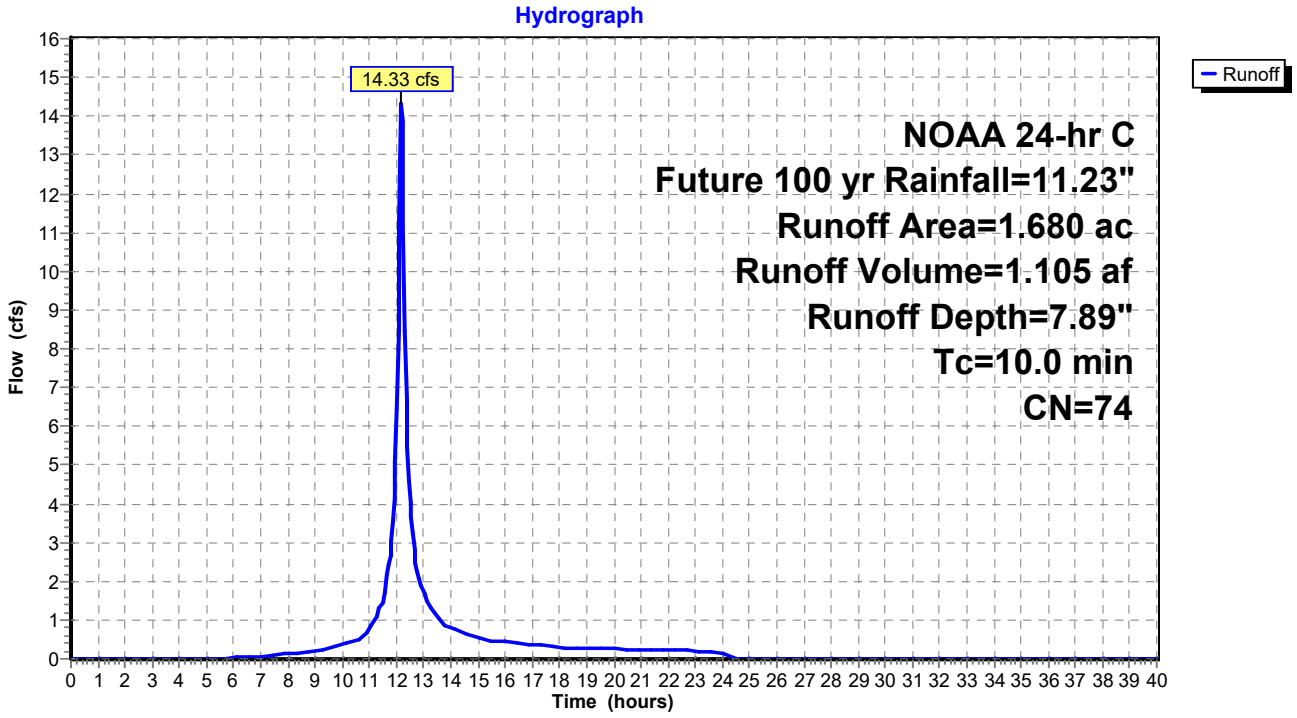
Runoff = 14.33 cfs @ 12.17 hrs, Volume= 1.105 af, Depth= 7.89"
Routed to Pond B-41 : Basin #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.680	74	>75% Grass cover, Good, HSG C
1.680		100.00% Pervious Area

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

Subcatchment 41P: PDA-41 (pervious)



Summary for Subcatchment 42l: PDA-42 (impervious)

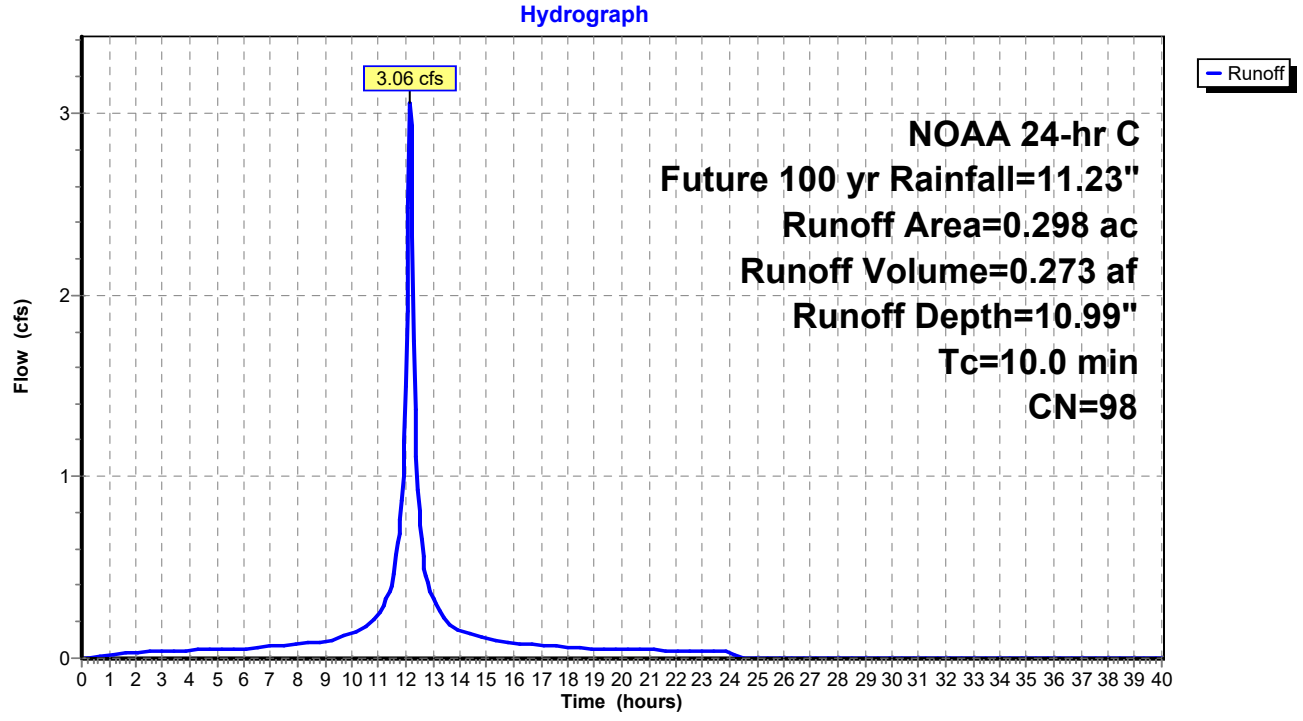
Runoff = 3.06 cfs @ 12.17 hrs, Volume= 0.273 af, Depth=10.99"
Routed to Pond B-42 : Basin #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.000	98	Pavement, HSG C
*	0.298	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.298	98	Weighted Average
	0.298		100.00% Impervious Area

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

Subcatchment 42l: PDA-42 (impervious)



Summary for Subcatchment 42P: PDA-42 (pervious)

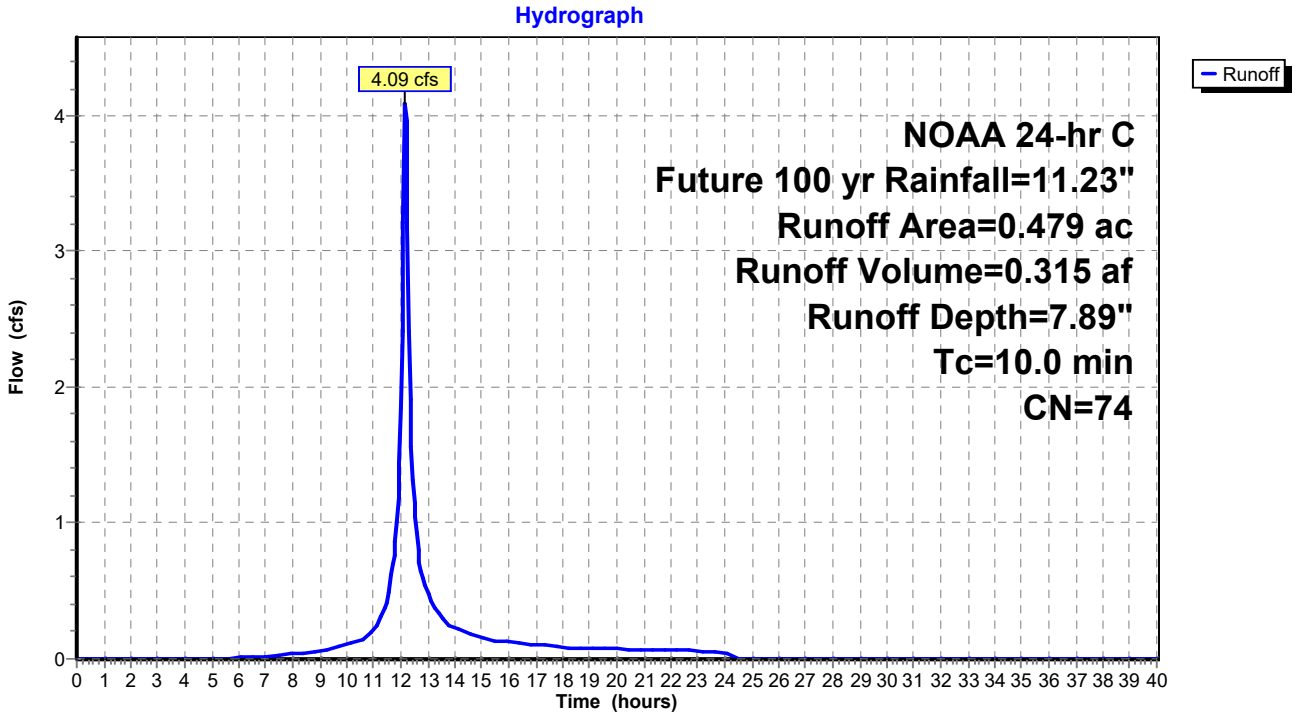
Runoff = 4.09 cfs @ 12.17 hrs, Volume= 0.315 af, Depth= 7.89"
Routed to Pond B-42 : Basin #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.479	74	>75% Grass cover, Good, HSG C
0.479		100.00% Pervious Area

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

Subcatchment 42P: PDA-42 (pervious)



Summary for Subcatchment 43I: PDA-43 (impervious)

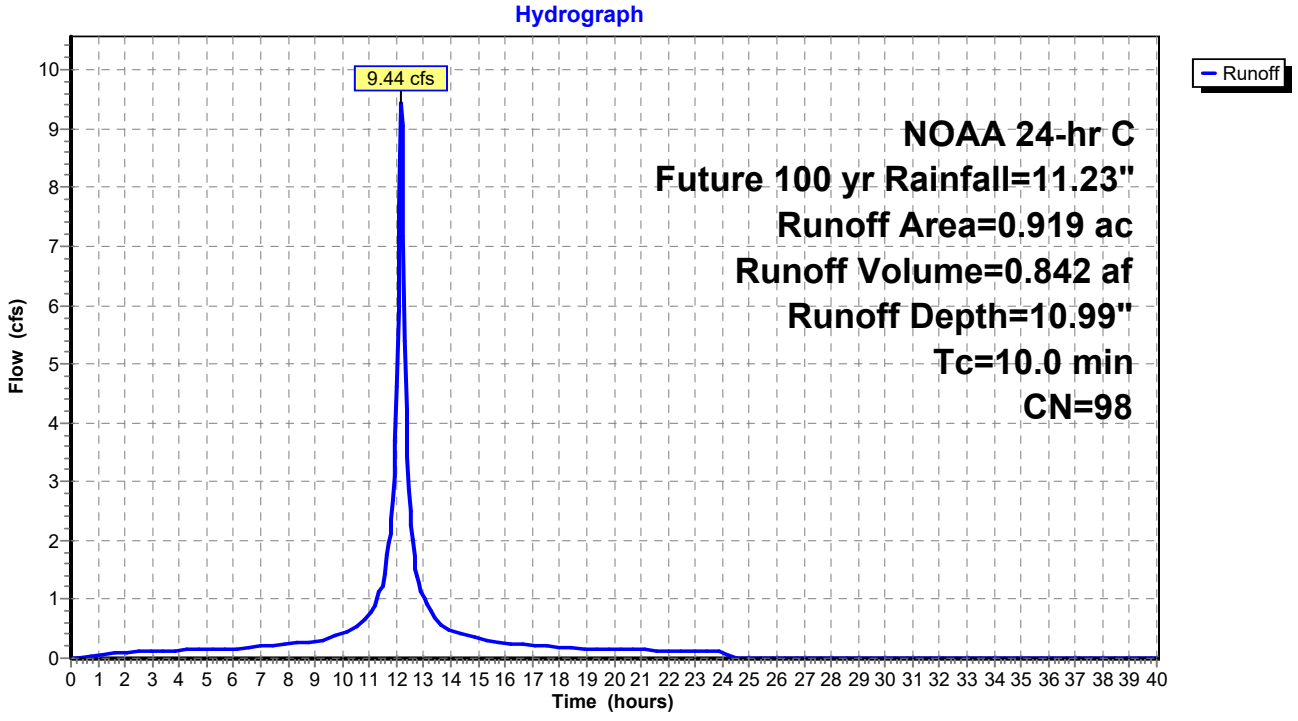
Runoff = 9.44 cfs @ 12.17 hrs, Volume= 0.842 af, Depth=10.99"
Routed to Pond B-43 : Basin #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.326	98	Pavement, HSG C
*	0.522	98	Roof, HSG C
*	0.071	98	Concrete, HSC C
	0.919	98	Weighted Average
	0.919		100.00% Impervious Area

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

Subcatchment 43I: PDA-43 (impervious)



Summary for Subcatchment 43P: PDA-43 (pervious)

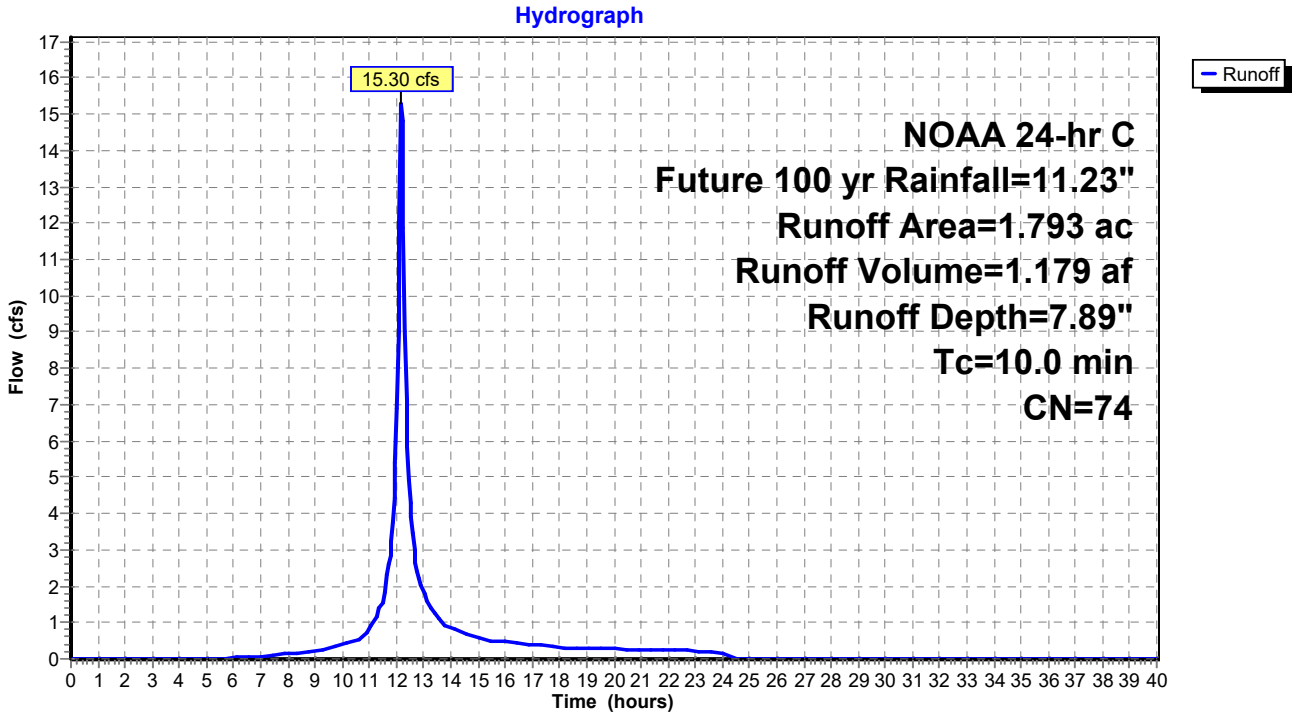
Runoff = 15.30 cfs @ 12.17 hrs, Volume= 1.179 af, Depth= 7.89"
Routed to Pond B-43 : Basin #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.793	74	>75% Grass cover, Good, HSG C
1.793		100.00% Pervious Area

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

Subcatchment 43P: PDA-43 (pervious)



Summary for Subcatchment 44I: PDA-44 (impervious)

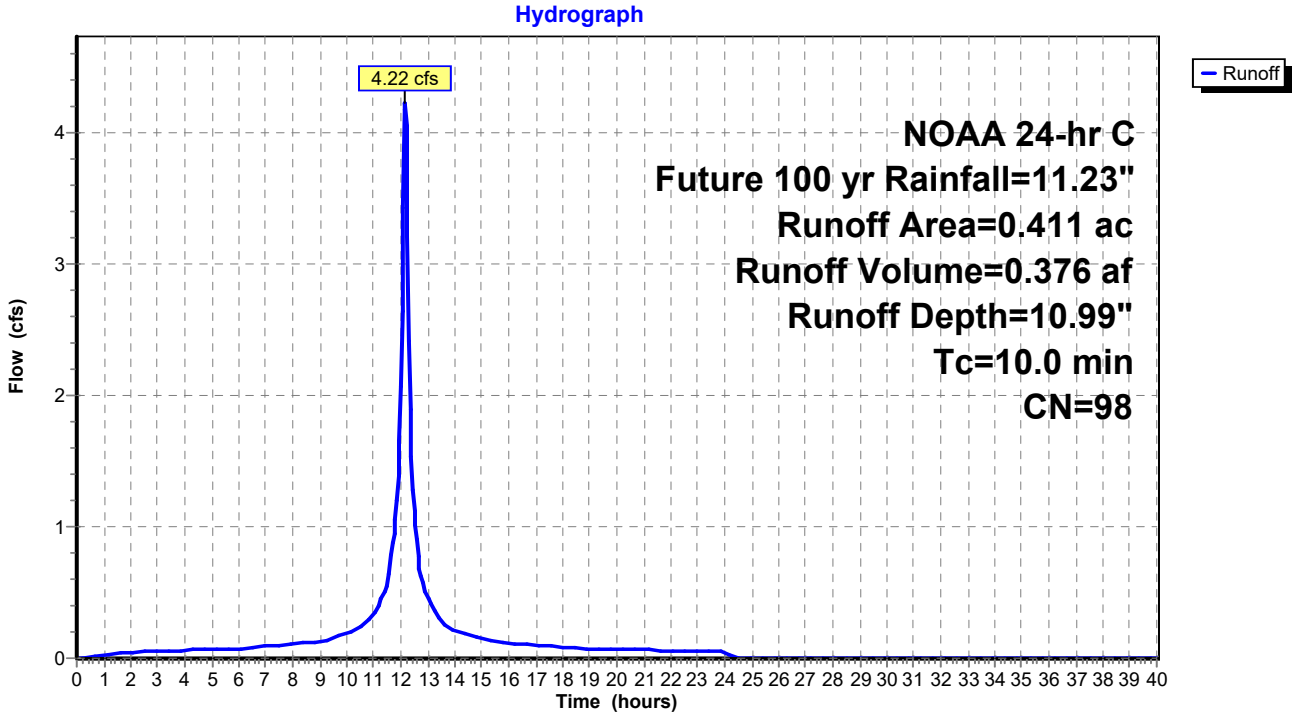
Runoff = 4.22 cfs @ 12.17 hrs, Volume= 0.376 af, Depth=10.99"
Routed to Pond B-44 : Basin #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.283	98	Pavement, HSG C
*	0.104	98	Roof, HSG C
*	0.024	98	Concrete, HSC C
	0.411	98	Weighted Average
	0.411		100.00% Impervious Area

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

Subcatchment 44I: PDA-44 (impervious)



Summary for Subcatchment 44P: PDA-44 (pervious)

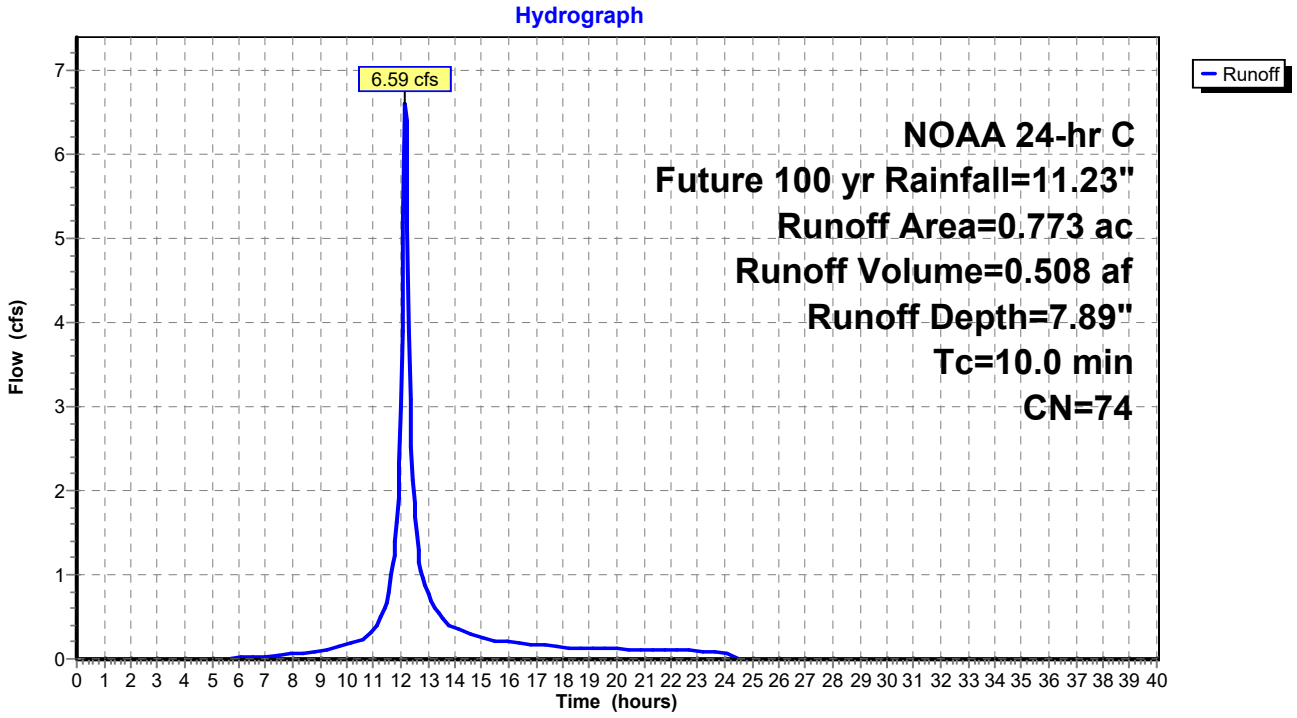
Runoff = 6.59 cfs @ 12.17 hrs, Volume= 0.508 af, Depth= 7.89"
Routed to Pond B-44 : Basin #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.773	74	>75% Grass cover, Good, HSG C
0.773		100.00% Pervious Area

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

Subcatchment 44P: PDA-44 (pervious)



Summary for Subcatchment 45l: PDA-45 (impervious)

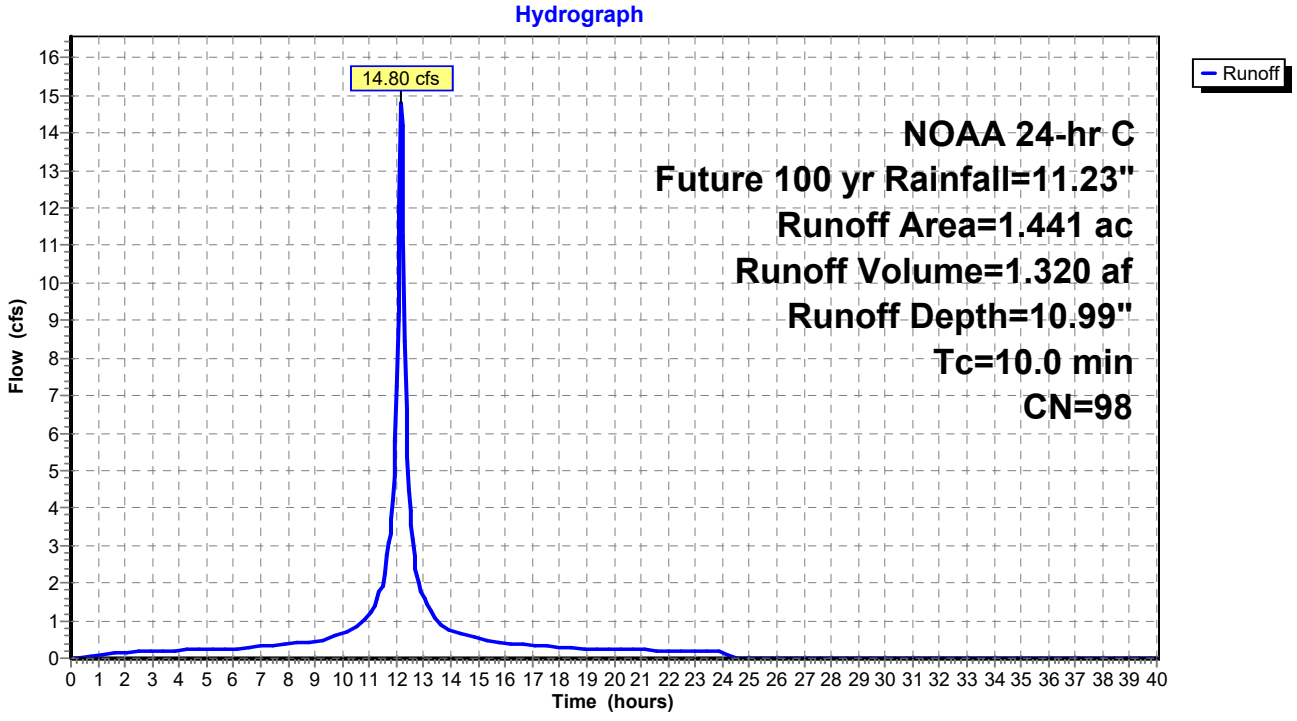
Runoff = 14.80 cfs @ 12.17 hrs, Volume= 1.320 af, Depth=10.99"
Routed to Pond B-45 : Basin #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.394	98	Pavement, HSG C
*	1.045	98	Roof, HSG C
*	0.002	98	Concrete, HSG C
	1.441	98	Weighted Average
	1.441		100.00% Impervious Area

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

Subcatchment 45l: PDA-45 (impervious)



Summary for Subcatchment 45P: PDA-45 (pervious)

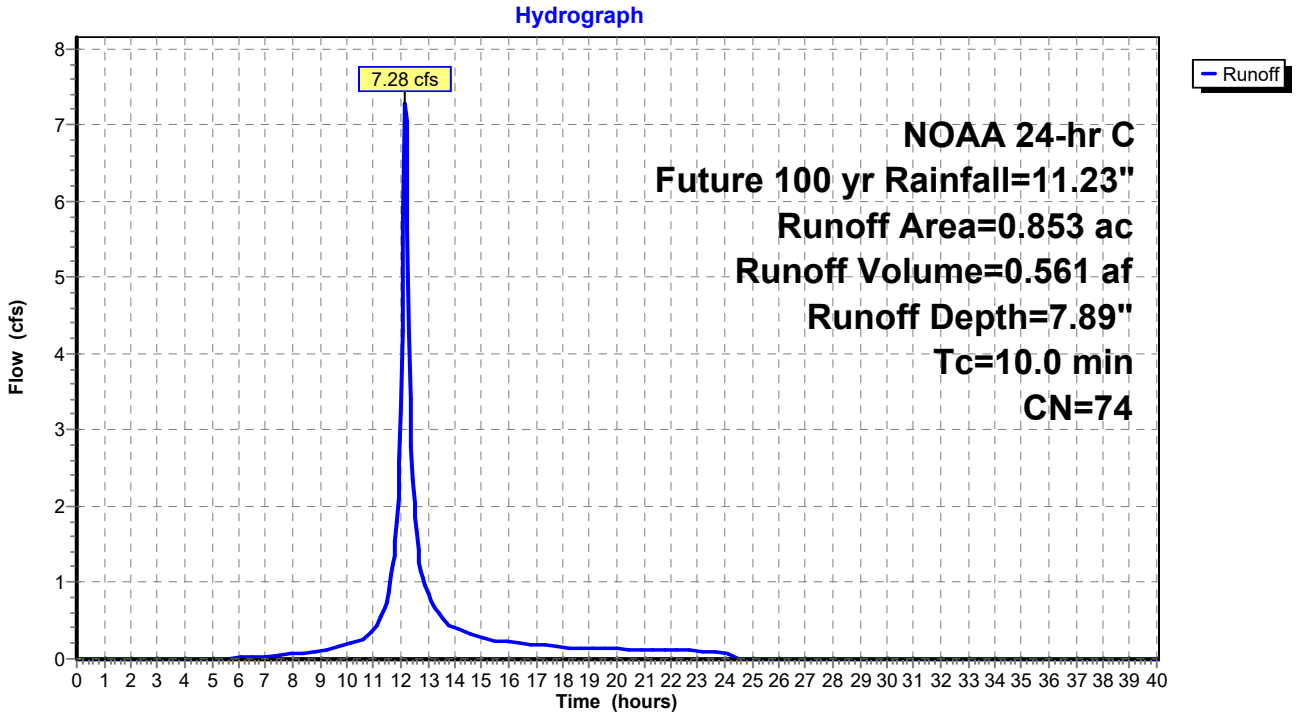
Runoff = 7.28 cfs @ 12.17 hrs, Volume= 0.561 af, Depth= 7.89"
Routed to Pond B-45 : Basin #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.853	74	>75% Grass cover, Good, HSG C
0.853		100.00% Pervious Area

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

Subcatchment 45P: PDA-45 (pervious)



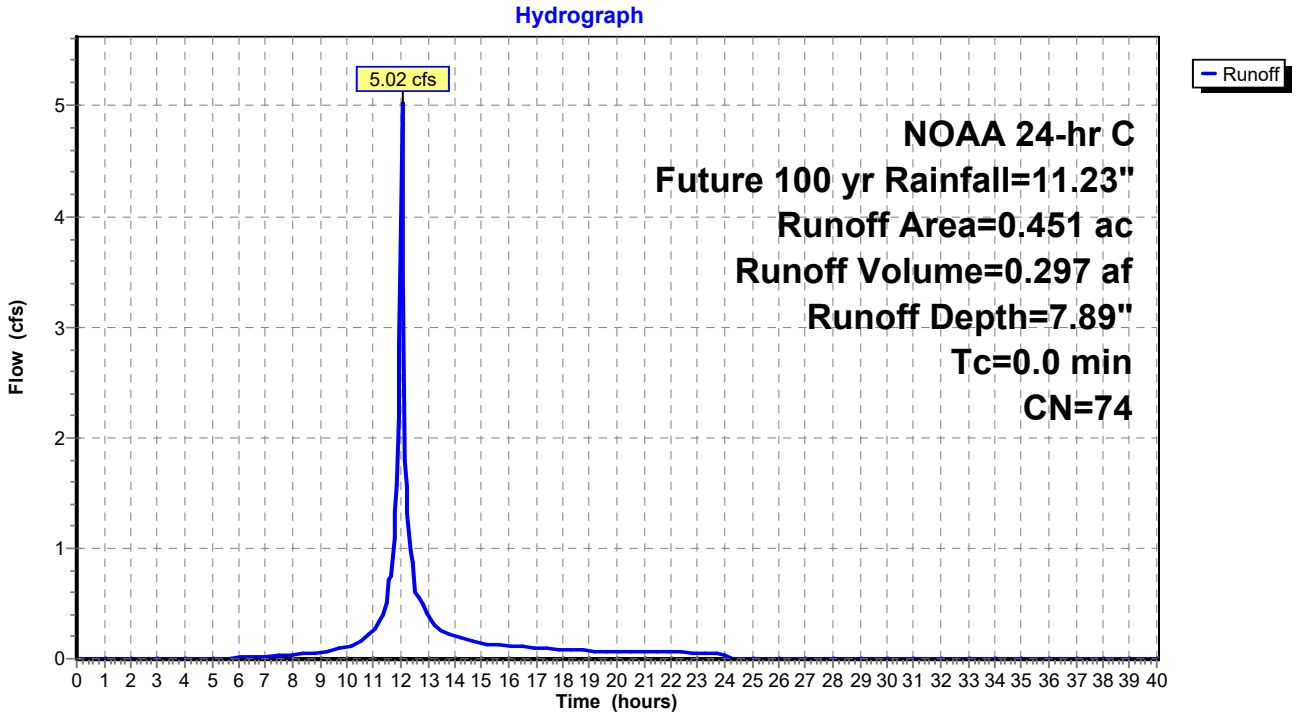
Summary for Subcatchment 46BP: PDA-46B (pervious)

Runoff = 5.02 cfs @ 12.05 hrs, Volume= 0.297 af, Depth= 7.89"
Routed to Pond B-46B : Basin #46B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.451	74	>75% Grass cover, Good, HSG C
0.451		100.00% Pervious Area

Subcatchment 46BP: PDA-46B (pervious)



Summary for Subcatchment 46I: PDA-46 (impervious)

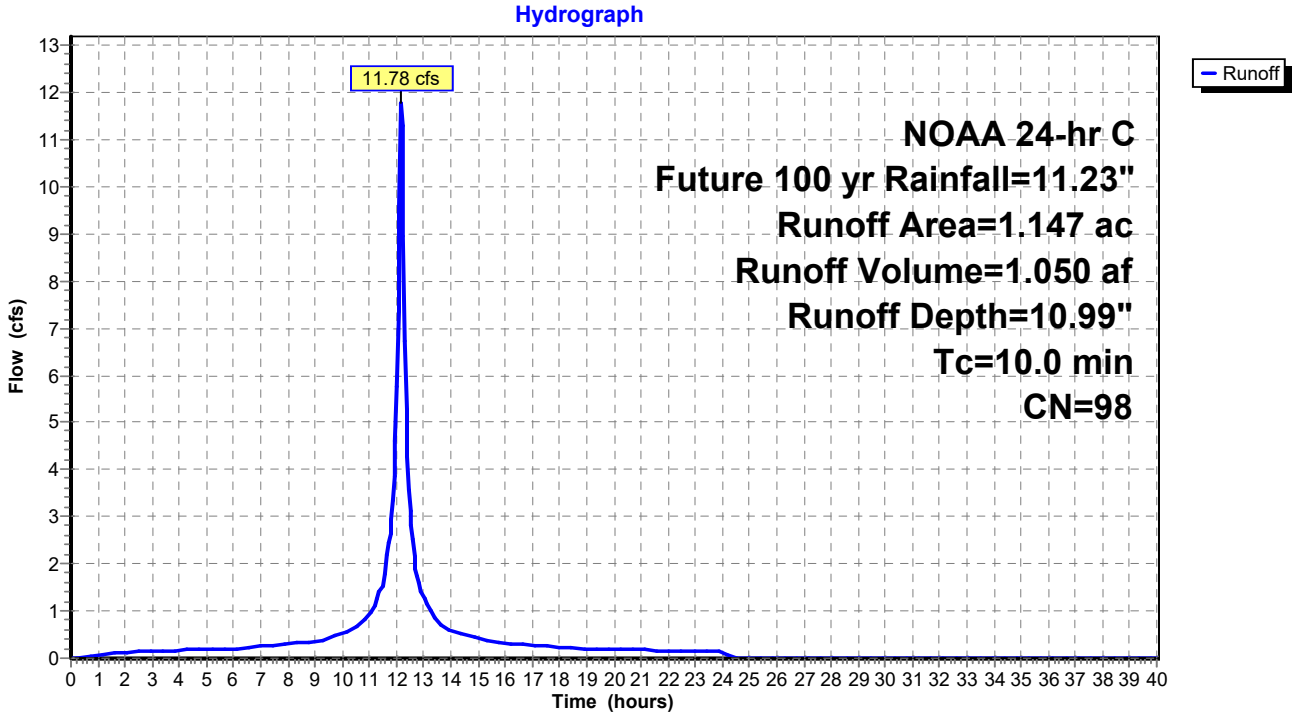
Runoff = 11.78 cfs @ 12.17 hrs, Volume= 1.050 af, Depth=10.99"
Routed to Pond B-46A : Basin #46A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.430	98	Pavement, HSG C
*	0.653	98	Roof, HSG C
*	0.064	98	Concrete, HSG C
	1.147	98	Weighted Average
	1.147		100.00% Impervious Area

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

Subcatchment 46I: PDA-46 (impervious)



Summary for Subcatchment 46P: PDA-46 (pervious)

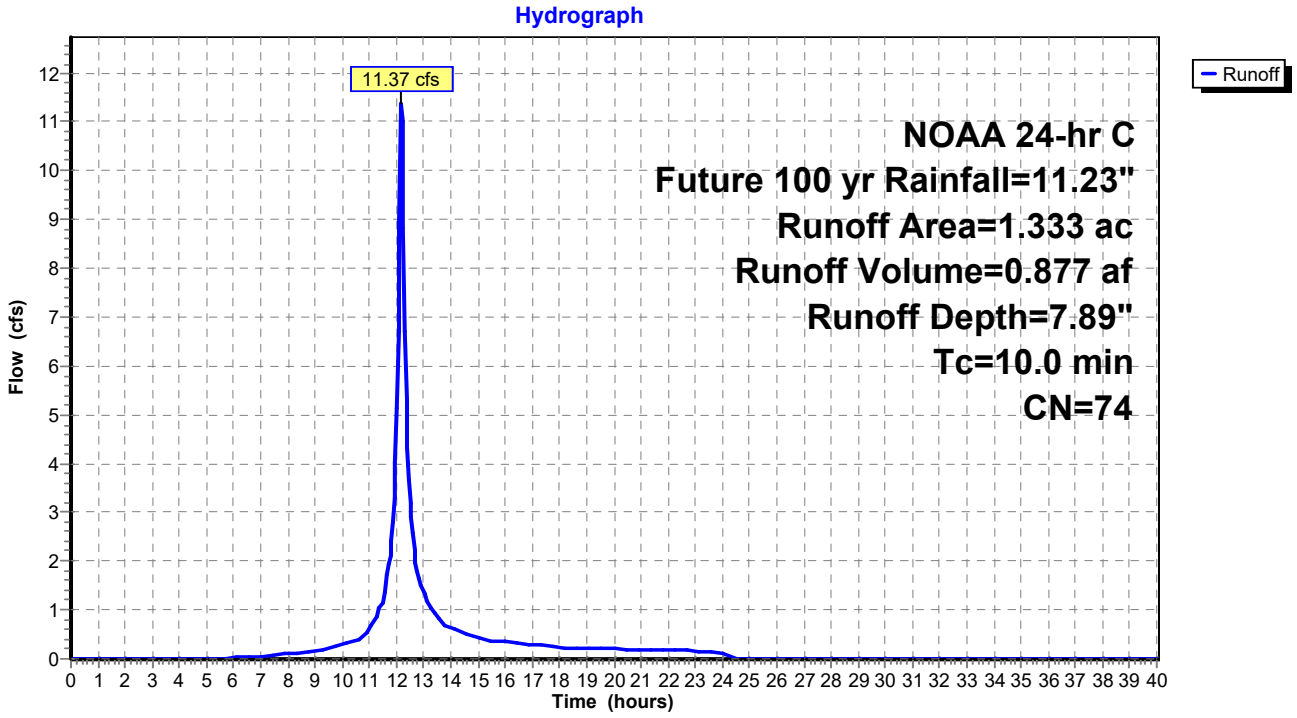
Runoff = 11.37 cfs @ 12.17 hrs, Volume= 0.877 af, Depth= 7.89"
Routed to Pond B-46A : Basin #46A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.333	74	>75% Grass cover, Good, HSG C
1.333		100.00% Pervious Area

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

Subcatchment 46P: PDA-46 (pervious)



Summary for Subcatchment 47I: PDA-47 (impervious)

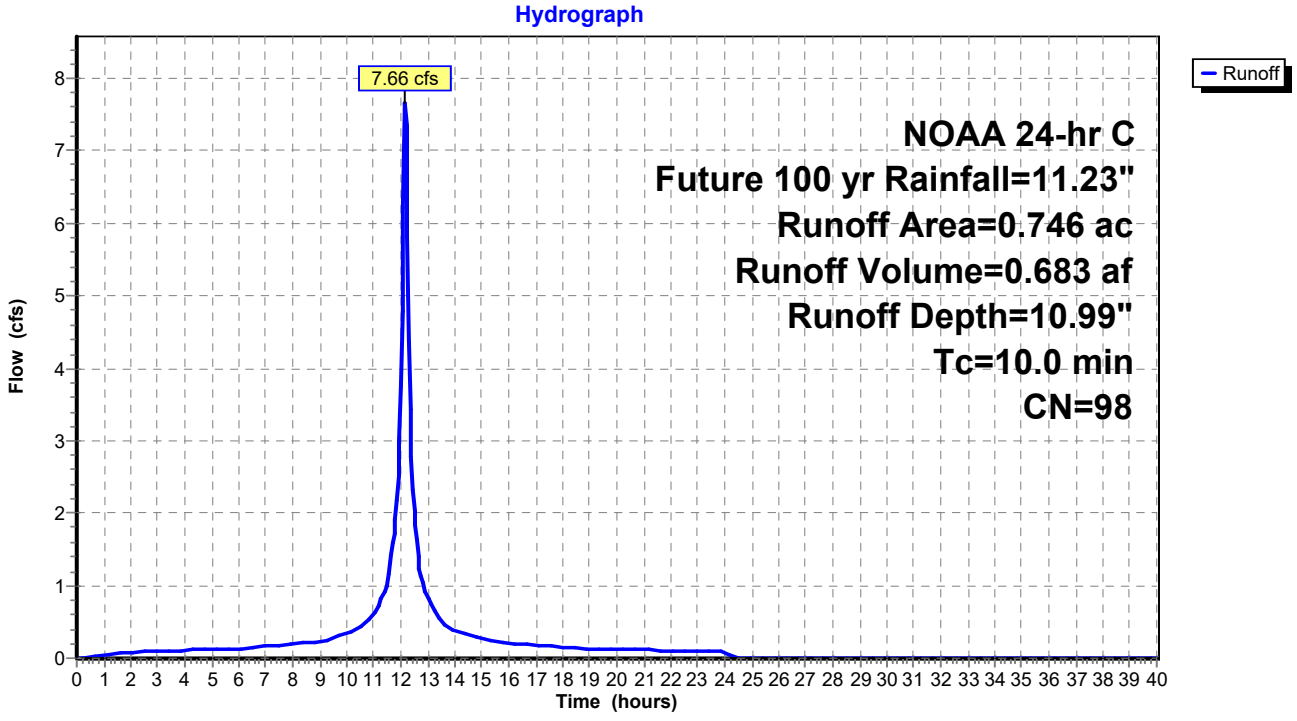
Runoff = 7.66 cfs @ 12.17 hrs, Volume= 0.683 af, Depth=10.99"
Routed to Pond B-47 : Basin #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

	Area (ac)	CN	Description
*	0.244	98	Pavement, HSG C
*	0.484	98	Roof, HSG C
*	0.018	98	Concrete, HSG C
	0.746	98	Weighted Average
	0.746		100.00% Impervious Area

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

Subcatchment 47I: PDA-47 (impervious)



Summary for Subcatchment 47P: PDA-47 (pervious)

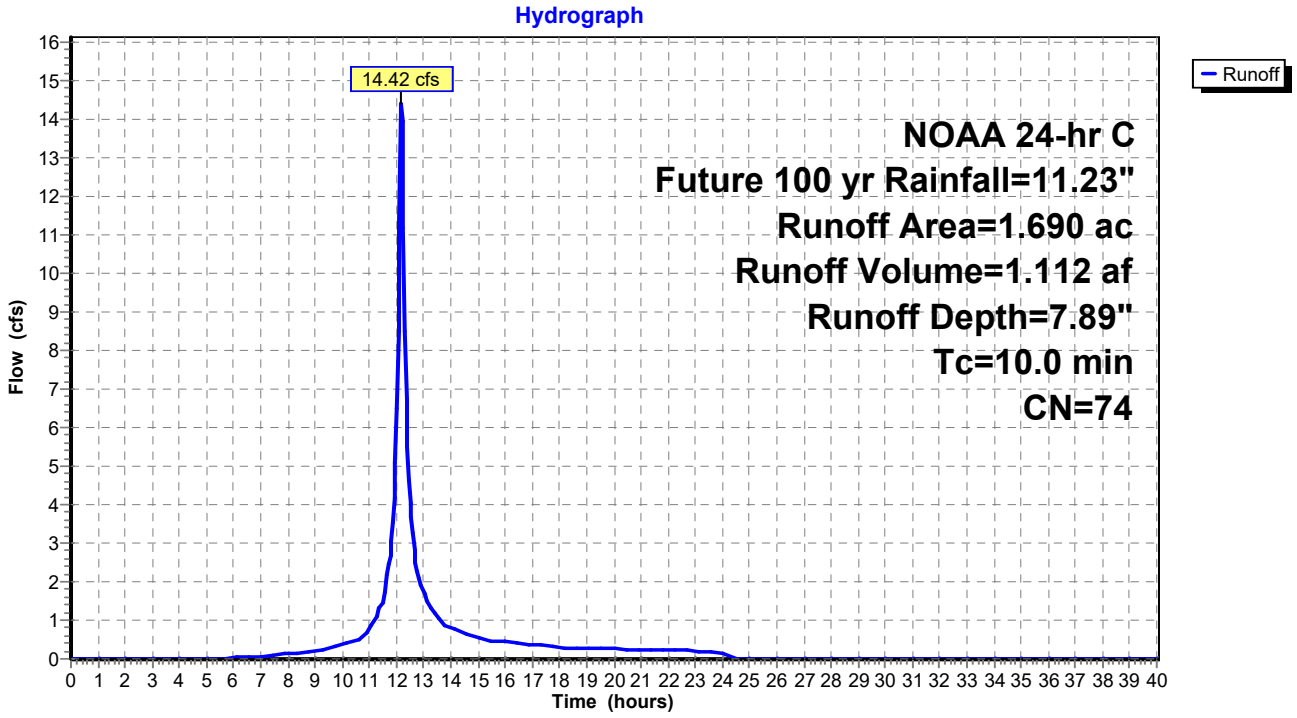
Runoff = 14.42 cfs @ 12.17 hrs, Volume= 1.112 af, Depth= 7.89"
Routed to Pond B-47 : Basin #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.690	74	>75% Grass cover, Good, HSG C
1.690		100.00% Pervious Area

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

Subcatchment 47P: PDA-47 (pervious)



Summary for Subcatchment UPDA-4: PDA-4 (undetained)

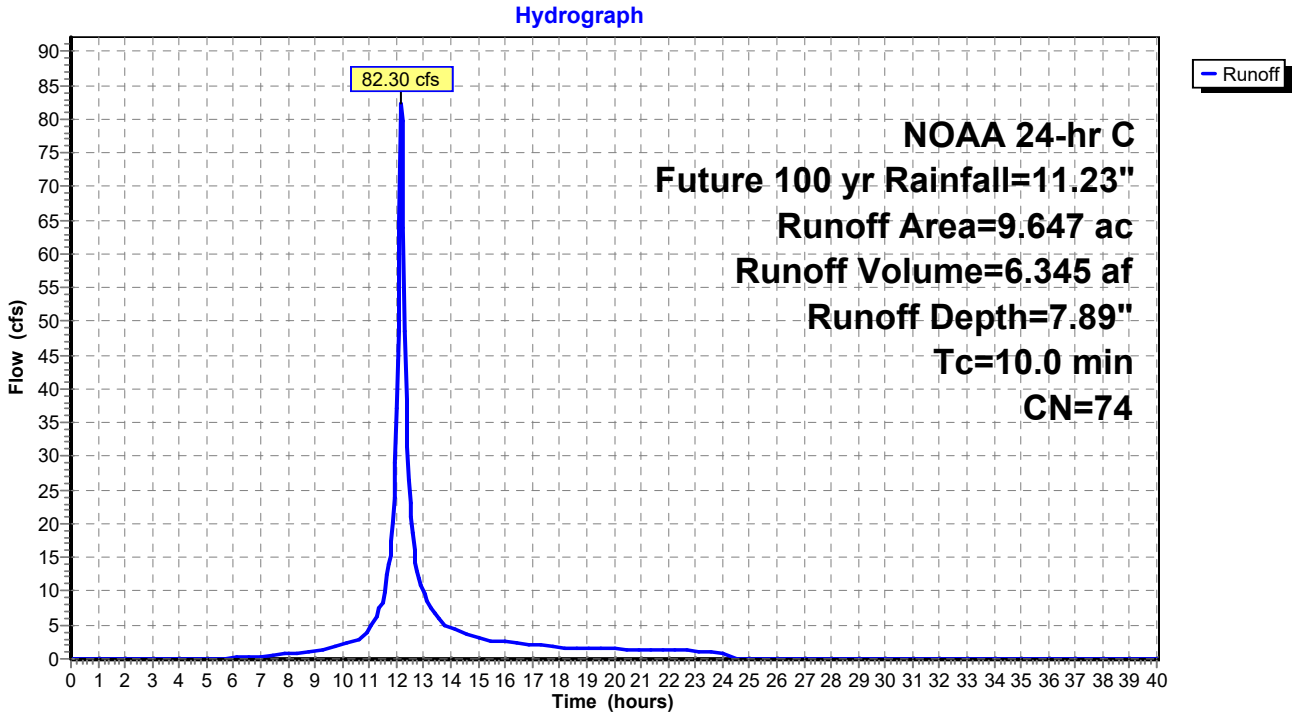
Runoff = 82.30 cfs @ 12.17 hrs, Volume= 6.345 af, Depth= 7.89"
Routed to Link PDA-4 : Proposed Drainage Area #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
9.647	74	>75% Grass cover, Good, HSG C
9.647		100.00% Pervious Area

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

Subcatchment UPDA-4: PDA-4 (undetained)



Summary for Pond B-41: Basin #41

Inflow Area = 2.368 ac, 29.05% Impervious, Inflow Depth = 8.79" for Future 100 yr event
Inflow = 21.40 cfs @ 12.17 hrs, Volume= 1.735 af
Outflow = 18.49 cfs @ 12.24 hrs, Volume= 1.672 af, Atten= 14%, Lag= 4.4 min
Primary = 18.49 cfs @ 12.24 hrs, Volume= 1.672 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 185.51' @ 12.24 hrs Surf.Area= 5,832 sf Storage= 16,876 cf

Plug-Flow detention time= 161.0 min calculated for 1.672 af (96% of inflow)
Center-of-Mass det. time= 139.1 min (924.0 - 784.8)

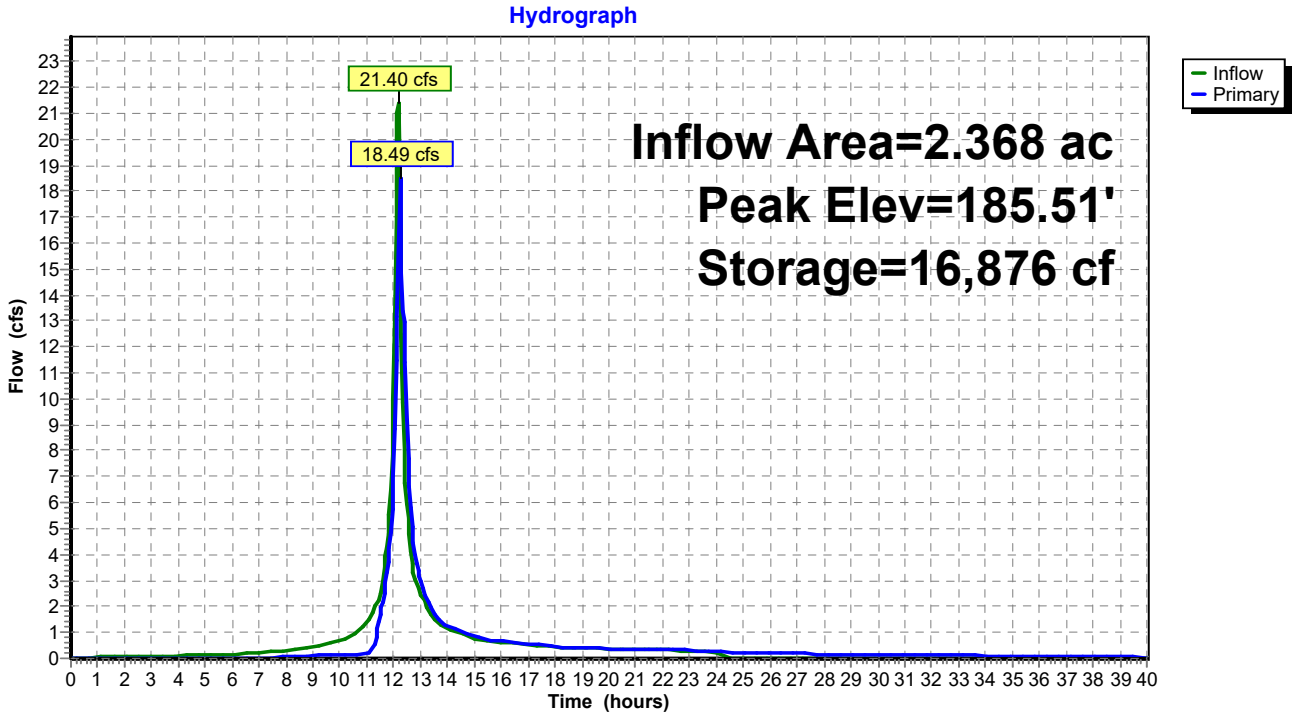
Volume	Invert	Avail.Storage	Storage Description
#1	181.85'	23,005 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
181.85	0	0	0
182.00	3,695	277	277
183.00	4,265	3,980	4,257
184.00	4,870	4,568	8,825
185.00	5,505	5,188	14,012
186.00	6,153	5,829	19,841
186.50	6,502	3,164	23,005

Device	Routing	Invert	Outlet Devices
#1	Primary	181.85'	**18.0" Round Culvert** L= 59.0' Ke= 0.500 Inlet / Outlet Invert= 181.85' / 181.55' S= 0.0051 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	182.50'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.13'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.39'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=18.08 cfs @ 12.24 hrs HW=185.50' (Free Discharge)
- **1=Culvert** (Barrel Controls 13.82 cfs @ 7.82 fps)
  - **2=Orifice/Grate** (Passes < 0.28 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 19.53 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Weir Controls 4.26 cfs @ 0.77 fps)

Pond B-41: Basin #41



Stage-Discharge for Pond B-41: Basin #41

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.85	0.00	182.37	0.00	182.89	0.09	183.41	0.15
181.86	0.00	182.38	0.00	182.90	0.09	183.42	0.15
181.87	0.00	182.39	0.00	182.91	0.09	183.43	0.15
181.88	0.00	182.40	0.00	182.92	0.09	183.44	0.15
181.89	0.00	182.41	0.00	182.93	0.09	183.45	0.15
181.90	0.00	182.42	0.00	182.94	0.10	183.46	0.15
181.91	0.00	182.43	0.00	182.95	0.10	183.47	0.15
181.92	0.00	182.44	0.00	182.96	0.10	183.48	0.15
181.93	0.00	182.45	0.00	182.97	0.10	183.49	0.15
181.94	0.00	182.46	0.00	182.98	0.10	183.50	0.16
181.95	0.00	182.47	0.00	182.99	0.10	183.51	0.16
181.96	0.00	182.48	0.00	183.00	0.10	183.52	0.16
181.97	0.00	182.49	0.00	183.01	0.10	183.53	0.16
181.98	0.00	182.50	0.00	183.02	0.11	183.54	0.16
181.99	0.00	182.51	0.00	183.03	0.11	183.55	0.16
182.00	0.00	182.52	0.00	183.04	0.11	183.56	0.16
182.01	0.00	182.53	0.00	183.05	0.11	183.57	0.16
182.02	0.00	182.54	0.00	183.06	0.11	183.58	0.16
182.03	0.00	182.55	0.00	183.07	0.11	183.59	0.16
182.04	0.00	182.56	0.01	183.08	0.11	183.60	0.16
182.05	0.00	182.57	0.01	183.09	0.11	183.61	0.16
182.06	0.00	182.58	0.01	183.10	0.12	183.62	0.17
182.07	0.00	182.59	0.01	183.11	0.12	183.63	0.17
182.08	0.00	182.60	0.02	183.12	0.12	183.64	0.17
182.09	0.00	182.61	0.02	183.13	0.12	183.65	0.17
182.10	0.00	182.62	0.02	183.14	0.12	183.66	0.17
182.11	0.00	182.63	0.03	183.15	0.12	183.67	0.17
182.12	0.00	182.64	0.03	183.16	0.12	183.68	0.17
182.13	0.00	182.65	0.03	183.17	0.12	183.69	0.17
182.14	0.00	182.66	0.04	183.18	0.12	183.70	0.17
182.15	0.00	182.67	0.04	183.19	0.13	183.71	0.17
182.16	0.00	182.68	0.05	183.20	0.13	183.72	0.17
182.17	0.00	182.69	0.05	183.21	0.13	183.73	0.17
182.18	0.00	182.70	0.05	183.22	0.13	183.74	0.17
182.19	0.00	182.71	0.05	183.23	0.13	183.75	0.18
182.20	0.00	182.72	0.06	183.24	0.13	183.76	0.18
182.21	0.00	182.73	0.06	183.25	0.13	183.77	0.18
182.22	0.00	182.74	0.06	183.26	0.13	183.78	0.18
182.23	0.00	182.75	0.06	183.27	0.13	183.79	0.18
182.24	0.00	182.76	0.06	183.28	0.13	183.80	0.18
182.25	0.00	182.77	0.07	183.29	0.14	183.81	0.18
182.26	0.00	182.78	0.07	183.30	0.14	183.82	0.18
182.27	0.00	182.79	0.07	183.31	0.14	183.83	0.18
182.28	0.00	182.80	0.07	183.32	0.14	183.84	0.18
182.29	0.00	182.81	0.07	183.33	0.14	183.85	0.18
182.30	0.00	182.82	0.08	183.34	0.14	183.86	0.18
182.31	0.00	182.83	0.08	183.35	0.14	183.87	0.18
182.32	0.00	182.84	0.08	183.36	0.14	183.88	0.19
182.33	0.00	182.85	0.08	183.37	0.14	183.89	0.19
182.34	0.00	182.86	0.08	183.38	0.14	183.90	0.19
182.35	0.00	182.87	0.08	183.39	0.15	183.91	0.19
182.36	0.00	182.88	0.09	183.40	0.15	183.92	0.19

Stage-Discharge for Pond B-41: Basin #41 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.93	0.19	184.45	2.55	184.97	9.90	185.49	17.51
183.94	0.19	184.46	2.66	184.98	10.07	185.50	18.11
183.95	0.19	184.47	2.77	184.99	10.24	185.51	18.74
183.96	0.19	184.48	2.89	185.00	10.41	185.52	19.40
183.97	0.19	184.49	3.00	185.01	10.58	185.53	20.08
183.98	0.19	184.50	3.12	185.02	10.75	185.54	20.78
183.99	0.19	184.51	3.23	185.03	10.92	185.55	21.51
184.00	0.19	184.52	3.35	185.04	11.09	185.56	22.26
184.01	0.19	184.53	3.47	185.05	11.27	185.57	23.03
184.02	0.20	184.54	3.59	185.06	11.44	185.58	23.82
184.03	0.20	184.55	3.71	185.07	11.62	185.59	24.64
184.04	0.20	184.56	3.84	185.08	11.79	185.60	25.51
184.05	0.20	184.57	3.96	185.09	11.97	185.61	26.41
184.06	0.20	184.58	4.09	185.10	12.15	185.62	27.34
184.07	0.20	184.59	4.22	185.11	12.33	185.63	28.29
184.08	0.20	184.60	4.35	185.12	12.51	185.64	29.27
184.09	0.20	184.61	4.48	185.13	12.69	185.65	30.27
184.10	0.20	184.62	4.61	185.14	12.77	185.66	31.29
184.11	0.20	184.63	4.74	185.15	12.80	185.67	32.34
184.12	0.20	184.64	4.88	185.16	12.83	185.68	33.42
184.13	0.20	184.65	5.01	185.17	12.86	185.69	34.52
184.14	0.22	184.66	5.15	185.18	12.89	185.70	35.64
184.15	0.24	184.67	5.29	185.19	12.92	185.71	36.79
184.16	0.27	184.68	5.42	185.20	12.95	185.72	37.96
184.17	0.31	184.69	5.56	185.21	12.98	185.73	39.16
184.18	0.35	184.70	5.71	185.22	13.01	185.74	40.38
184.19	0.40	184.71	5.85	185.23	13.04	185.75	41.63
184.20	0.45	184.72	5.99	185.24	13.07	185.76	42.89
184.21	0.50	184.73	6.14	185.25	13.10	185.77	44.19
184.22	0.56	184.74	6.28	185.26	13.13	185.78	45.51
184.23	0.62	184.75	6.43	185.27	13.16	185.79	46.85
184.24	0.68	184.76	6.58	185.28	13.19	185.80	48.24
184.25	0.75	184.77	6.72	185.29	13.22	185.81	49.66
184.26	0.82	184.78	6.87	185.30	13.25	185.82	51.10
184.27	0.89	184.79	7.02	185.31	13.28	185.83	52.57
184.28	0.97	184.80	7.18	185.32	13.30	185.84	54.07
184.29	1.04	184.81	7.33	185.33	13.33	185.85	55.59
184.30	1.12	184.82	7.48	185.34	13.36	185.86	57.14
184.31	1.20	184.83	7.64	185.35	13.39	185.87	58.72
184.32	1.29	184.84	7.79	185.36	13.42	185.88	60.32
184.33	1.37	184.85	7.95	185.37	13.45	185.89	61.95
184.34	1.46	184.86	8.11	185.38	13.48	185.90	63.60
184.35	1.55	184.87	8.27	185.39	13.51	185.91	65.28
184.36	1.64	184.88	8.42	185.40	13.65	185.92	66.99
184.37	1.74	184.89	8.59	185.41	13.90	185.93	68.72
184.38	1.83	184.90	8.75	185.42	14.20	185.94	70.48
184.39	1.93	184.91	8.91	185.43	14.56	185.95	72.27
184.40	2.03	184.92	9.07	185.44	14.96	185.96	74.09
184.41	2.13	184.93	9.24	185.45	15.40	185.97	75.93
184.42	2.23	184.94	9.40	185.46	15.88	185.98	77.80
184.43	2.34	184.95	9.57	185.47	16.39	185.99	79.69
184.44	2.45	184.96	9.73	185.48	16.94	186.00	81.34

Stage-Discharge for Pond B-41: Basin #41 (continued)

Elevation (feet)	Primary (cfs)
186.01	83.01
186.02	84.69
186.03	86.38
186.04	88.09
186.05	89.81
186.06	91.54
186.07	93.29
186.08	95.04
186.09	96.81
186.10	98.60
186.11	100.40
186.12	102.20
186.13	104.03
186.14	105.86
186.15	107.71
186.16	109.56
186.17	111.44
186.18	113.32
186.19	115.21
186.20	117.16
186.21	119.11
186.22	121.09
186.23	123.07
186.24	125.07
186.25	127.08
186.26	129.10
186.27	131.14
186.28	133.19
186.29	135.25
186.30	137.32
186.31	139.41
186.32	141.51
186.33	143.63
186.34	145.75
186.35	147.89
186.36	150.04
186.37	152.21
186.38	154.38
186.39	156.57
186.40	158.72
186.41	160.88
186.42	163.05
186.43	165.23
186.44	167.42
186.45	169.62
186.46	171.83
186.47	174.05
186.48	176.29
186.49	178.53
186.50	**180.78**

Stage-Area-Storage for Pond B-41: Basin #41

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.85	0	0	182.37	3,906	1,683
181.86	246	1	182.38	3,912	1,722
181.87	493	5	182.39	3,917	1,762
181.88	739	11	182.40	3,923	1,801
181.89	985	20	182.41	3,929	1,840
181.90	1,232	31	182.42	3,934	1,879
181.91	1,478	44	182.43	3,940	1,919
181.92	1,724	60	182.44	3,946	1,958
181.93	1,971	79	182.45	3,951	1,998
181.94	2,217	100	182.46	3,957	2,037
181.95	2,463	123	182.47	3,963	2,077
181.96	2,710	149	182.48	3,969	2,116
181.97	2,956	177	182.49	3,974	2,156
181.98	3,202	208	182.50	3,980	2,196
181.99	3,449	241	182.51	3,986	2,236
182.00	3,695	277	182.52	3,991	2,276
182.01	3,701	314	182.53	3,997	2,316
182.02	3,706	351	182.54	4,003	2,356
182.03	3,712	388	182.55	4,008	2,396
182.04	3,718	425	182.56	4,014	2,436
182.05	3,723	463	182.57	4,020	2,476
182.06	3,729	500	182.58	4,026	2,516
182.07	3,735	537	182.59	4,031	2,556
182.08	3,741	575	182.60	4,037	2,597
182.09	3,746	612	182.61	4,043	2,637
182.10	3,752	649	182.62	4,048	2,678
182.11	3,758	687	182.63	4,054	2,718
182.12	3,763	725	182.64	4,060	2,759
182.13	3,769	762	182.65	4,066	2,799
182.14	3,775	800	182.66	4,071	2,840
182.15	3,781	838	182.67	4,077	2,881
182.16	3,786	876	182.68	4,083	2,922
182.17	3,792	914	182.69	4,088	2,962
182.18	3,798	951	182.70	4,094	3,003
182.19	3,803	989	182.71	4,100	3,044
182.20	3,809	1,028	182.72	4,105	3,085
182.21	3,815	1,066	182.73	4,111	3,126
182.22	3,820	1,104	182.74	4,117	3,167
182.23	3,826	1,142	182.75	4,123	3,209
182.24	3,832	1,180	182.76	4,128	3,250
182.25	3,838	1,219	182.77	4,134	3,291
182.26	3,843	1,257	182.78	4,140	3,333
182.27	3,849	1,296	182.79	4,145	3,374
182.28	3,855	1,334	182.80	4,151	3,416
182.29	3,860	1,373	182.81	4,157	3,457
182.30	3,866	1,411	182.82	4,162	3,499
182.31	3,872	1,450	182.83	4,168	3,540
182.32	3,877	1,489	182.84	4,174	3,582
182.33	3,883	1,528	182.85	4,179	3,624
182.34	3,889	1,566	182.86	4,185	3,666
182.35	3,894	1,605	182.87	4,191	3,707
182.36	3,900	1,644	182.88	4,197	3,749

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.89	4,202	3,791	183.41	4,513	6,057
182.90	4,208	3,833	183.42	4,519	6,102
182.91	4,214	3,876	183.43	4,525	6,147
182.92	4,219	3,918	183.44	4,531	6,192
182.93	4,225	3,960	183.45	4,537	6,238
182.94	4,231	4,002	183.46	4,543	6,283
182.95	4,236	4,045	183.47	4,549	6,328
182.96	4,242	4,087	183.48	4,555	6,374
182.97	4,248	4,129	183.49	4,561	6,420
182.98	4,254	4,172	183.50	4,568	6,465
182.99	4,259	4,215	183.51	4,574	6,511
183.00	4,265	4,257	183.52	4,580	6,557
183.01	4,271	4,300	183.53	4,586	6,603
183.02	4,277	4,343	183.54	4,592	6,648
183.03	4,283	4,385	183.55	4,598	6,694
183.04	4,289	4,428	183.56	4,604	6,740
183.05	4,295	4,471	183.57	4,610	6,786
183.06	4,301	4,514	183.58	4,616	6,833
183.07	4,307	4,557	183.59	4,622	6,879
183.08	4,313	4,600	183.60	4,628	6,925
183.09	4,319	4,643	183.61	4,634	6,971
183.10	4,325	4,687	183.62	4,640	7,018
183.11	4,332	4,730	183.63	4,646	7,064
183.12	4,338	4,773	183.64	4,652	7,111
183.13	4,344	4,817	183.65	4,658	7,157
183.14	4,350	4,860	183.66	4,664	7,204
183.15	4,356	4,904	183.67	4,670	7,250
183.16	4,362	4,947	183.68	4,676	7,297
183.17	4,368	4,991	183.69	4,682	7,344
183.18	4,374	5,035	183.70	4,688	7,391
183.19	4,380	5,078	183.71	4,695	7,438
183.20	4,386	5,122	183.72	4,701	7,485
183.21	4,392	5,166	183.73	4,707	7,532
183.22	4,398	5,210	183.74	4,713	7,579
183.23	4,404	5,254	183.75	4,719	7,626
183.24	4,410	5,298	183.76	4,725	7,673
183.25	4,416	5,342	183.77	4,731	7,721
183.26	4,422	5,386	183.78	4,737	7,768
183.27	4,428	5,431	183.79	4,743	7,815
183.28	4,434	5,475	183.80	4,749	7,863
183.29	4,440	5,519	183.81	4,755	7,910
183.30	4,446	5,564	183.82	4,761	7,958
183.31	4,453	5,608	183.83	4,767	8,005
183.32	4,459	5,653	183.84	4,773	8,053
183.33	4,465	5,698	183.85	4,779	8,101
183.34	4,471	5,742	183.86	4,785	8,149
183.35	4,477	5,787	183.87	4,791	8,197
183.36	4,483	5,832	183.88	4,797	8,245
183.37	4,489	5,877	183.89	4,803	8,293
183.38	4,495	5,922	183.90	4,810	8,341
183.39	4,501	5,966	183.91	4,816	8,389
183.40	4,507	6,012	183.92	4,822	8,437

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.93	4,828	8,485	184.45	5,156	11,080
183.94	4,834	8,534	184.46	5,162	11,132
183.95	4,840	8,582	184.47	5,168	11,184
183.96	4,846	8,630	184.48	5,175	11,235
183.97	4,852	8,679	184.49	5,181	11,287
183.98	4,858	8,727	184.50	5,188	11,339
183.99	4,864	8,776	184.51	5,194	11,391
184.00	4,870	8,825	184.52	5,200	11,443
184.01	4,876	8,873	184.53	5,207	11,495
184.02	4,883	8,922	184.54	5,213	11,547
184.03	4,889	8,971	184.55	5,219	11,599
184.04	4,895	9,020	184.56	5,226	11,651
184.05	4,902	9,069	184.57	5,232	11,704
184.06	4,908	9,118	184.58	5,238	11,756
184.07	4,914	9,167	184.59	5,245	11,808
184.08	4,921	9,216	184.60	5,251	11,861
184.09	4,927	9,265	184.61	5,257	11,913
184.10	4,933	9,315	184.62	5,264	11,966
184.11	4,940	9,364	184.63	5,270	12,019
184.12	4,946	9,414	184.64	5,276	12,071
184.13	4,953	9,463	184.65	5,283	12,124
184.14	4,959	9,513	184.66	5,289	12,177
184.15	4,965	9,562	184.67	5,295	12,230
184.16	4,972	9,612	184.68	5,302	12,283
184.17	4,978	9,662	184.69	5,308	12,336
184.18	4,984	9,712	184.70	5,314	12,389
184.19	4,991	9,761	184.71	5,321	12,442
184.20	4,997	9,811	184.72	5,327	12,496
184.21	5,003	9,861	184.73	5,334	12,549
184.22	5,010	9,911	184.74	5,340	12,602
184.23	5,016	9,962	184.75	5,346	12,656
184.24	5,022	10,012	184.76	5,353	12,709
184.25	5,029	10,062	184.77	5,359	12,763
184.26	5,035	10,112	184.78	5,365	12,816
184.27	5,041	10,163	184.79	5,372	12,870
184.28	5,048	10,213	184.80	5,378	12,924
184.29	5,054	10,264	184.81	5,384	12,978
184.30	5,060	10,314	184.82	5,391	13,032
184.31	5,067	10,365	184.83	5,397	13,085
184.32	5,073	10,416	184.84	5,403	13,139
184.33	5,080	10,466	184.85	5,410	13,194
184.34	5,086	10,517	184.86	5,416	13,248
184.35	5,092	10,568	184.87	5,422	13,302
184.36	5,099	10,619	184.88	5,429	13,356
184.37	5,105	10,670	184.89	5,435	13,410
184.38	5,111	10,721	184.90	5,442	13,465
184.39	5,118	10,772	184.91	5,448	13,519
184.40	5,124	10,823	184.92	5,454	13,574
184.41	5,130	10,875	184.93	5,461	13,628
184.42	5,137	10,926	184.94	5,467	13,683
184.43	5,143	10,977	184.95	5,473	13,738
184.44	5,149	11,029	184.96	5,480	13,792

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.97	5,486	13,847	185.49	5,823	16,787
184.98	5,492	13,902	185.50	5,829	16,846
184.99	5,499	13,957	185.51	5,835	16,904
185.00	5,505	14,012	185.52	5,842	16,962
185.01	5,511	14,067	185.53	5,848	17,021
185.02	5,518	14,122	185.54	5,855	17,079
185.03	5,524	14,178	185.55	5,861	17,138
185.04	5,531	14,233	185.56	5,868	17,197
185.05	5,537	14,288	185.57	5,874	17,255
185.06	5,544	14,344	185.58	5,881	17,314
185.07	5,550	14,399	185.59	5,887	17,373
185.08	5,557	14,455	185.60	5,894	17,432
185.09	5,563	14,510	185.61	5,900	17,491
185.10	5,570	14,566	185.62	5,907	17,550
185.11	5,576	14,622	185.63	5,913	17,609
185.12	5,583	14,677	185.64	5,920	17,668
185.13	5,589	14,733	185.65	5,926	17,727
185.14	5,596	14,789	185.66	5,933	17,787
185.15	5,602	14,845	185.67	5,939	17,846
185.16	5,609	14,901	185.68	5,946	17,905
185.17	5,615	14,957	185.69	5,952	17,965
185.18	5,622	15,014	185.70	5,959	18,024
185.19	5,628	15,070	185.71	5,965	18,084
185.20	5,635	15,126	185.72	5,972	18,144
185.21	5,641	15,182	185.73	5,978	18,203
185.22	5,648	15,239	185.74	5,985	18,263
185.23	5,654	15,295	185.75	5,991	18,323
185.24	5,661	15,352	185.76	5,997	18,383
185.25	5,667	15,409	185.77	6,004	18,443
185.26	5,673	15,465	185.78	6,010	18,503
185.27	5,680	15,522	185.79	6,017	18,563
185.28	5,686	15,579	185.80	6,023	18,623
185.29	5,693	15,636	185.81	6,030	18,684
185.30	5,699	15,693	185.82	6,036	18,744
185.31	5,706	15,750	185.83	6,043	18,804
185.32	5,712	15,807	185.84	6,049	18,865
185.33	5,719	15,864	185.85	6,056	18,925
185.34	5,725	15,921	185.86	6,062	18,986
185.35	5,732	15,979	185.87	6,069	19,047
185.36	5,738	16,036	185.88	6,075	19,107
185.37	5,745	16,093	185.89	6,082	19,168
185.38	5,751	16,151	185.90	6,088	19,229
185.39	5,758	16,208	185.91	6,095	19,290
185.40	5,764	16,266	185.92	6,101	19,351
185.41	5,771	16,324	185.93	6,108	19,412
185.42	5,777	16,381	185.94	6,114	19,473
185.43	5,784	16,439	185.95	6,121	19,534
185.44	5,790	16,497	185.96	6,127	19,596
185.45	5,797	16,555	185.97	6,134	19,657
185.46	5,803	16,613	185.98	6,140	19,718
185.47	5,810	16,671	185.99	6,147	19,780
185.48	5,816	16,729	186.00	6,153	19,841

Stage-Area-Storage for Pond B-41: Basin #41 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.01	6,160	19,903
186.02	6,167	19,964
186.03	6,174	20,026
186.04	6,181	20,088
186.05	6,188	20,150
186.06	6,195	20,212
186.07	6,202	20,274
186.08	6,209	20,336
186.09	6,216	20,398
186.10	6,223	20,460
186.11	6,230	20,522
186.12	6,237	20,585
186.13	6,244	20,647
186.14	6,251	20,709
186.15	6,258	20,772
186.16	6,265	20,835
186.17	6,272	20,897
186.18	6,279	20,960
186.19	6,286	21,023
186.20	6,293	21,086
186.21	6,300	21,149
186.22	6,307	21,212
186.23	6,314	21,275
186.24	6,321	21,338
186.25	6,328	21,401
186.26	6,334	21,464
186.27	6,341	21,528
186.28	6,348	21,591
186.29	6,355	21,655
186.30	6,362	21,718
186.31	6,369	21,782
186.32	6,376	21,846
186.33	6,383	21,910
186.34	6,390	21,973
186.35	6,397	22,037
186.36	6,404	22,101
186.37	6,411	22,166
186.38	6,418	22,230
186.39	6,425	22,294
186.40	6,432	22,358
186.41	6,439	22,423
186.42	6,446	22,487
186.43	6,453	22,551
186.44	6,460	22,616
186.45	6,467	22,681
186.46	6,474	22,745
186.47	6,481	22,810
186.48	6,488	22,875
186.49	6,495	22,940
186.50	**6,502**	**23,005**

Summary for Pond B-42: Basin #42

Inflow Area = 0.777 ac, 38.35% Impervious, Inflow Depth = 9.08" for Future 100 yr event
Inflow = 7.15 cfs @ 12.17 hrs, Volume= 0.588 af
Outflow = 5.30 cfs @ 12.27 hrs, Volume= 0.492 af, Atten= 26%, Lag= 5.7 min
Primary = 5.30 cfs @ 12.27 hrs, Volume= 0.492 af
Routed to Link PDA-4 : Proposed Drainage Area #4

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 184.55' @ 12.27 hrs Surf.Area= 3,971 sf Storage= 10,777 cf

Plug-Flow detention time= 305.7 min calculated for 0.492 af (84% of inflow)
Center-of-Mass det. time= 233.7 min (1,011.7 - 778.0)

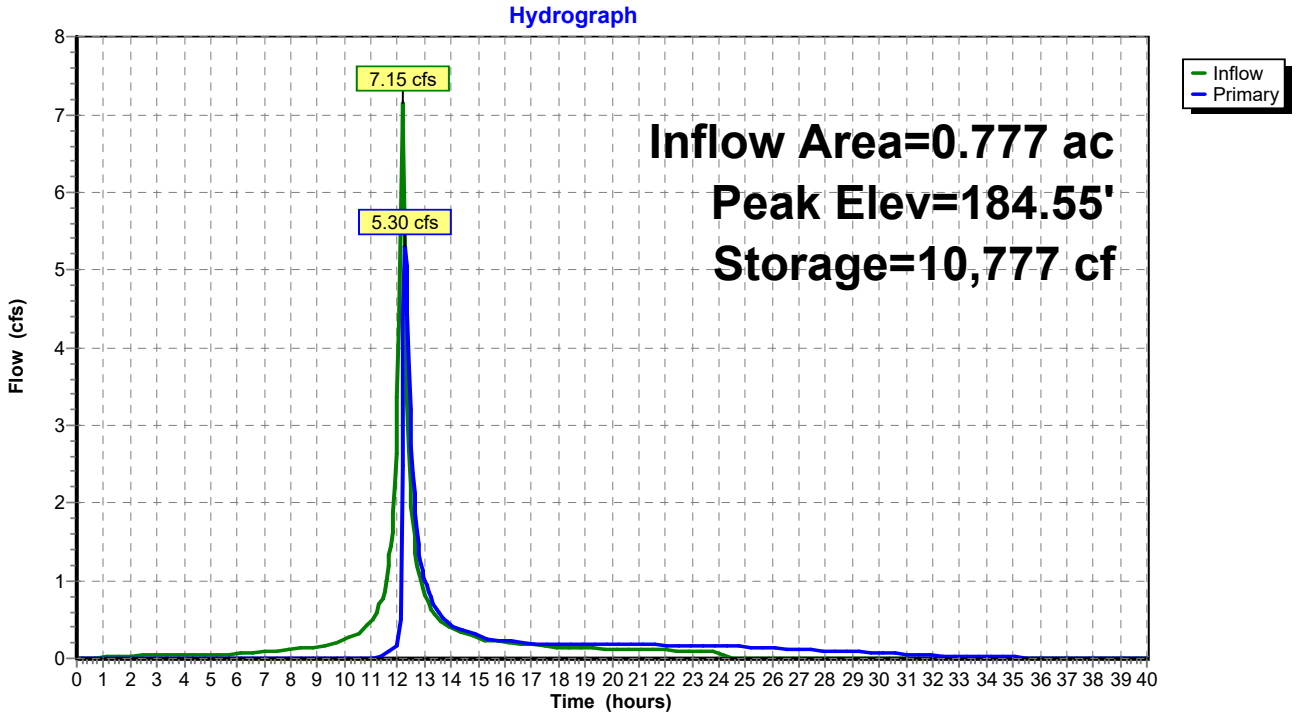
Volume	Invert	Avail.Storage	Storage Description
#1	180.96'	22,293 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
180.96	0	0	0
181.00	2,142	43	43
182.00	2,613	2,378	2,420
183.00	3,118	2,866	5,286
184.00	3,656	3,387	8,673
185.00	4,227	3,942	12,614
186.00	4,831	4,529	17,143
187.00	5,468	5,150	22,293

Device	Routing	Invert	Outlet Devices
#1	Primary	181.96'	**18.0" Round Culvert** L= 192.0' Ke= 0.500 Inlet / Outlet Invert= 181.96' / 181.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	182.60'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	184.01'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	185.99'	**50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=5.19 cfs @ 12.27 hrs HW=184.54' (Free Discharge)
- **1=Culvert** (Passes 5.19 cfs of 9.06 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.22 cfs @ 6.53 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 4.96 cfs @ 2.39 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-42: Basin #42



Stage-Discharge for Pond B-42: Basin #42

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.96	0.00	181.48	0.00	182.00	0.00	182.52	0.00
180.97	0.00	181.49	0.00	182.01	0.00	182.53	0.00
180.98	0.00	181.50	0.00	182.02	0.00	182.54	0.00
180.99	0.00	181.51	0.00	182.03	0.00	182.55	0.00
181.00	0.00	181.52	0.00	182.04	0.00	182.56	0.00
181.01	0.00	181.53	0.00	182.05	0.00	182.57	0.00
181.02	0.00	181.54	0.00	182.06	0.00	182.58	0.00
181.03	0.00	181.55	0.00	182.07	0.00	182.59	0.00
181.04	0.00	181.56	0.00	182.08	0.00	182.60	0.00
181.05	0.00	181.57	0.00	182.09	0.00	182.61	0.00
181.06	0.00	181.58	0.00	182.10	0.00	182.62	0.00
181.07	0.00	181.59	0.00	182.11	0.00	182.63	0.00
181.08	0.00	181.60	0.00	182.12	0.00	182.64	0.00
181.09	0.00	181.61	0.00	182.13	0.00	182.65	0.00
181.10	0.00	181.62	0.00	182.14	0.00	182.66	0.01
181.11	0.00	181.63	0.00	182.15	0.00	182.67	0.01
181.12	0.00	181.64	0.00	182.16	0.00	182.68	0.01
181.13	0.00	181.65	0.00	182.17	0.00	182.69	0.01
181.14	0.00	181.66	0.00	182.18	0.00	182.70	0.02
181.15	0.00	181.67	0.00	182.19	0.00	182.71	0.02
181.16	0.00	181.68	0.00	182.20	0.00	182.72	0.02
181.17	0.00	181.69	0.00	182.21	0.00	182.73	0.03
181.18	0.00	181.70	0.00	182.22	0.00	182.74	0.03
181.19	0.00	181.71	0.00	182.23	0.00	182.75	0.03
181.20	0.00	181.72	0.00	182.24	0.00	182.76	0.04
181.21	0.00	181.73	0.00	182.25	0.00	182.77	0.04
181.22	0.00	181.74	0.00	182.26	0.00	182.78	0.05
181.23	0.00	181.75	0.00	182.27	0.00	182.79	0.05
181.24	0.00	181.76	0.00	182.28	0.00	182.80	0.05
181.25	0.00	181.77	0.00	182.29	0.00	182.81	0.05
181.26	0.00	181.78	0.00	182.30	0.00	182.82	0.06
181.27	0.00	181.79	0.00	182.31	0.00	182.83	0.06
181.28	0.00	181.80	0.00	182.32	0.00	182.84	0.06
181.29	0.00	181.81	0.00	182.33	0.00	182.85	0.06
181.30	0.00	181.82	0.00	182.34	0.00	182.86	0.06
181.31	0.00	181.83	0.00	182.35	0.00	182.87	0.07
181.32	0.00	181.84	0.00	182.36	0.00	182.88	0.07
181.33	0.00	181.85	0.00	182.37	0.00	182.89	0.07
181.34	0.00	181.86	0.00	182.38	0.00	182.90	0.07
181.35	0.00	181.87	0.00	182.39	0.00	182.91	0.07
181.36	0.00	181.88	0.00	182.40	0.00	182.92	0.08
181.37	0.00	181.89	0.00	182.41	0.00	182.93	0.08
181.38	0.00	181.90	0.00	182.42	0.00	182.94	0.08
181.39	0.00	181.91	0.00	182.43	0.00	182.95	0.08
181.40	0.00	181.92	0.00	182.44	0.00	182.96	0.08
181.41	0.00	181.93	0.00	182.45	0.00	182.97	0.08
181.42	0.00	181.94	0.00	182.46	0.00	182.98	0.09
181.43	0.00	181.95	0.00	182.47	0.00	182.99	0.09
181.44	0.00	181.96	0.00	182.48	0.00	183.00	0.09
181.45	0.00	181.97	0.00	182.49	0.00	183.01	0.09
181.46	0.00	181.98	0.00	182.50	0.00	183.02	0.09
181.47	0.00	181.99	0.00	182.51	0.00	183.03	0.09

Stage-Discharge for Pond B-42: Basin #42 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.04	0.10	183.56	0.15	184.08	0.43	184.60	5.98
183.05	0.10	183.57	0.15	184.09	0.49	184.61	6.12
183.06	0.10	183.58	0.15	184.10	0.55	184.62	6.27
183.07	0.10	183.59	0.15	184.11	0.61	184.63	6.42
183.08	0.10	183.60	0.16	184.12	0.67	184.64	6.56
183.09	0.10	183.61	0.16	184.13	0.74	184.65	6.71
183.10	0.10	183.62	0.16	184.14	0.81	184.66	6.86
183.11	0.10	183.63	0.16	184.15	0.88	184.67	7.01
183.12	0.11	183.64	0.16	184.16	0.95	184.68	7.16
183.13	0.11	183.65	0.16	184.17	1.03	184.69	7.32
183.14	0.11	183.66	0.16	184.18	1.11	184.70	7.47
183.15	0.11	183.67	0.16	184.19	1.19	184.71	7.62
183.16	0.11	183.68	0.16	184.20	1.27	184.72	7.78
183.17	0.11	183.69	0.16	184.21	1.36	184.73	7.94
183.18	0.11	183.70	0.16	184.22	1.45	184.74	8.09
183.19	0.11	183.71	0.16	184.23	1.54	184.75	8.25
183.20	0.12	183.72	0.17	184.24	1.63	184.76	8.41
183.21	0.12	183.73	0.17	184.25	1.72	184.77	8.57
183.22	0.12	183.74	0.17	184.26	1.82	184.78	8.73
183.23	0.12	183.75	0.17	184.27	1.92	184.79	8.90
183.24	0.12	183.76	0.17	184.28	2.02	184.80	9.06
183.25	0.12	183.77	0.17	184.29	2.12	184.81	9.22
183.26	0.12	183.78	0.17	184.30	2.22	184.82	9.39
183.27	0.12	183.79	0.17	184.31	2.33	184.83	9.55
183.28	0.12	183.80	0.17	184.32	2.43	184.84	9.69
183.29	0.13	183.81	0.17	184.33	2.54	184.85	9.71
183.30	0.13	183.82	0.17	184.34	2.65	184.86	9.73
183.31	0.13	183.83	0.17	184.35	2.76	184.87	9.75
183.32	0.13	183.84	0.17	184.36	2.87	184.88	9.77
183.33	0.13	183.85	0.18	184.37	2.99	184.89	9.79
183.34	0.13	183.86	0.18	184.38	3.10	184.90	9.81
183.35	0.13	183.87	0.18	184.39	3.22	184.91	9.83
183.36	0.13	183.88	0.18	184.40	3.34	184.92	9.85
183.37	0.13	183.89	0.18	184.41	3.46	184.93	9.88
183.38	0.13	183.90	0.18	184.42	3.58	184.94	9.90
183.39	0.14	183.91	0.18	184.43	3.70	184.95	9.92
183.40	0.14	183.92	0.18	184.44	3.83	184.96	9.94
183.41	0.14	183.93	0.18	184.45	3.95	184.97	9.96
183.42	0.14	183.94	0.18	184.46	4.08	184.98	9.98
183.43	0.14	183.95	0.18	184.47	4.21	184.99	10.00
183.44	0.14	183.96	0.18	184.48	4.33	185.00	10.02
183.45	0.14	183.97	0.18	184.49	4.46	185.01	10.04
183.46	0.14	183.98	0.19	184.50	4.60	185.02	10.06
183.47	0.14	183.99	0.19	184.51	4.73	185.03	10.08
183.48	0.14	184.00	0.19	184.52	4.86	185.04	10.10
183.49	0.15	184.01	0.19	184.53	5.00	185.05	10.12
183.50	0.15	184.02	0.20	184.54	5.14	185.06	10.14
183.51	0.15	184.03	0.23	184.55	5.27	185.07	10.16
183.52	0.15	184.04	0.26	184.56	5.41	185.08	10.18
183.53	0.15	184.05	0.29	184.57	5.55	185.09	10.20
183.54	0.15	184.06	0.34	184.58	5.69	185.10	10.21
183.55	0.15	184.07	0.38	184.59	5.84	185.11	10.23