

**Sister's Self Storage
Commercial Development
Franklin, Johnson County, Indiana**

Drainage

Revised March 30, 2011

Prepared By:



**586 South State Road 135, Suite "B"
Greenwood, IN 46142**

Office - 884-3020 / Fax-884-3025

SURVEYING, Inc.

WBE / DBE Certified

Sister's Self Storage
Commercial Development
Franklin, Johnson County, Indiana

Drainage Study

TABLE OF CONTENTS

1 -	PROFESSIONAL CERTIFICATION
2 -	DRAINAGE SUMMARY
3 -	AREA MAP
4 -	SOILS MAP
5 -	EXISTING CONDITIONS MAP
6 -	OFFSITE CALCULATIONS
7 -	EXISTING CONDITIONS WATERSHED CALCULATIONS
8 -	DEVELOPED CONDITIONS MAP
9 -	WATERSHED BYPASS CALCULATIONS
10 -	WATERSHED TO DETENTION CALCULATIONS
11 -	WATERSHED BYPASS + WATERSHED TO DETENTION HYDROGRAPHS
12 -	DETENTION POND ROUTING
13 -	STORM SEWER CALCULATIONS
14 -	EMERGENCY SPILLWAY DESIGN
15 -	WATER QUALITY CALCULATIONS

Sister's Self Storage
Commercial Development
Franklin, Johnson County, Indiana

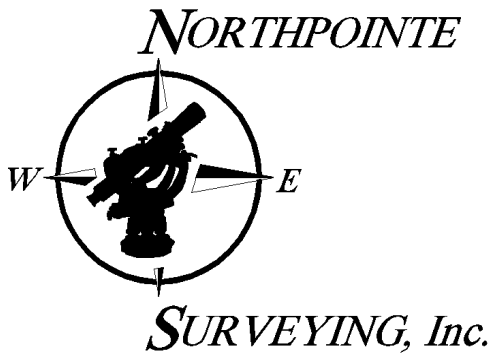
Drainage Study

PROFESSIONAL CERTIFICATION

The following report and accompanying computations have been developed by me or under my direct supervision.



Donna J. Smithers
Professional Land Surveyor
Registration Number: 20100076
Northpointe Surveying, Inc.



Sister's Place
Commercial Development
Franklin, Johnson County, Indiana

Drainage Summary

Existing Site Conditions:

The developed site contains approximately 5.19 acres and is located along the north side of Westview Drive in Franklin. The site currently is vacant. The site is mainly grass covered with trees located throughout the site. Canary Creek is located to the east of the site and the Canary legal drain is located to the north of the site. An application is being made to discharge into this legal drain. There is approximately 0.44 acres labeled as "Offsite" on the Existing Watershed Map within this report. This offsite area currently flows through the site and into Canary Creek. The site flows easterly into Canary Creek.

A Soils Map as well as an Existing Conditions Map is enclosed.

Proposed Site Conditions:

The proposed site improvements are as shown on the enclosed Post Development Watershed Map. The proposed site consists of storage buildings with asphalt, landscape and other improvements. The majority of the site will flow through the proposed storm system, and into the proposed detention area. The offsite watershed will pass through the detention. A portion of the site will bypass the detention area and sheet flow directly to Canary Creek. The proposed site is broken into two watersheds. They are labeled as Detention and Bypass on the enclosed Post Development Map. The site will outlet into the legal drain and flow to Canary Creek as in existing conditions. Capacity calculations for the detention area and the proposed storm sewers are included within this report. The Bypass area will sheet flow from the site and outlet to the east.

Drainage Methodology

The proposed storm sewer lines are designed for the 10-year storm event using Hydraflow Storm Sewers. The rational method was utilized to determine the peak runoff. A time of concentration (TOC) of 5 minutes and a runoff coefficient of 0.90 was used due to mostly impervious surface. Storm line C which captures outflow from the detention, Bypass 1, Offsite A and surface runoff from the road was designed to handle the 100-year storm event. The data from the Huff hydrographs was input into Hydraflow storm sewers for this line.

The SCS unit hydrograph method was used to calculate the runoff rates. The hydrographs were generated using the Huff rainfall distribution was used to calculate peak flows. The input parameters needed for the calculation include the Curve Number (CN) and Time of Concentration (TOC). The CN was determined by the surface description and soil type for the watershed. The TOC was calculated using TR-55 methodology, considering the surface conditions and slope.

Water Quality

The water quality for the site is proposed within the detention pond. A 2" orifice is being used in the control structure to hold back runoff for the water quality storm event. Water quality calculations are enclosed.

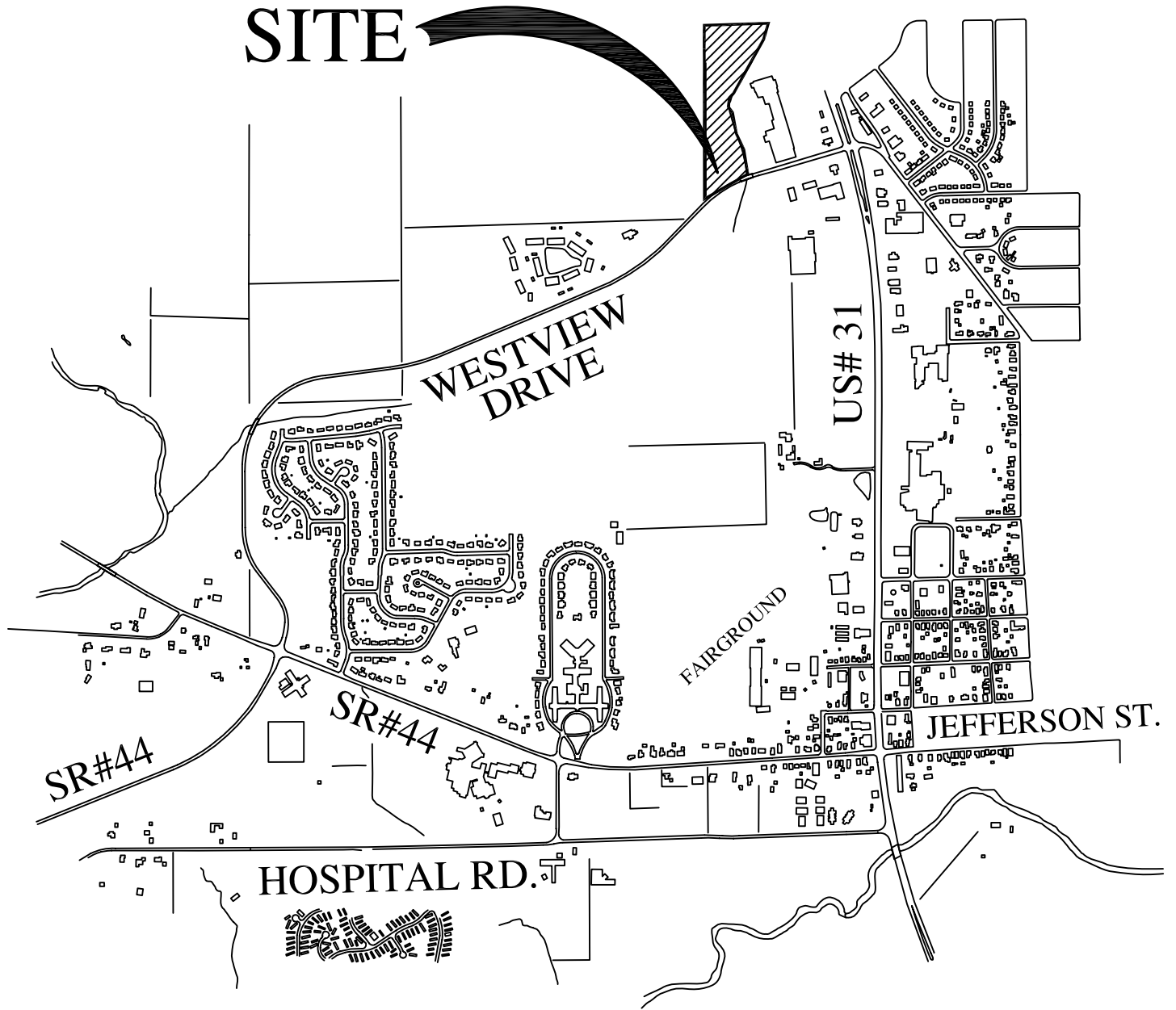
The site proposed and allowable release rates are as follows:

	Allowable (cfs)	Proposed (cfs)
2-YR	0.34	0.20
10-YR	0.57	0.51
100-YR	2.12	2.05

Existing Conditions				Allowable Release Rates
Storm Event		Existing Runoff	Offsite Runoff	2 YR = Existing 2YR + Offsite 2 YR
				10 YR = Existing 2YR + Offsite 10 YR
YR	HR	CFS	CFS	100 YR = Existing 10YR + Offsite 100 YR
2	1	0.05	0.13	0.18
2	2	0.21	0.13	0.34
2	3	0.23	0.11	0.34
2	6	0.24	0.08	0.32
2	12	0.22	0.06	0.28
2	24	0.16	0.04	0.20
10	1	1.16	0.44	0.49
10	2	1.17	0.36	0.57
10	3	1.06	0.29	0.52
10	6	0.98	0.20	0.44
10	12	0.76	0.13	0.35
10	24	0.51	0.08	0.24
100	1	3.72	0.96	2.12
100	2	3.50	0.71	1.88
100	3	3.23	0.56	1.62
100	6	2.40	0.36	1.34
100	12	1.65	0.22	0.98
100	24	1.13	0.14	0.65

Proposed Conditions				Proposed Release Rates
Storm Event		Detention Runoff	Bypass Runoff	2 YR = Detention 2YR + Bypass 2 YR
				10 YR = Detention 10YR + Bypass 10 YR
YR	HR	CFS	CFS	100 YR = Detention 100YR + Bypass 100 YR
2	1	0.09	0.04	0.13
2	2	0.10	0.07	0.17
2	3	0.11	0.08	0.19
2	6	0.12	0.07	0.19
2	12	0.13	0.07	0.20
2	24	0.13	0.05	0.18
10	1	0.13	0.38	0.51
10	2	0.14	0.35	0.49
10	3	0.15	0.34	0.49
10	6	0.19	0.29	0.48
10	12	0.25	0.22	0.47
10	24	0.25	0.15	0.40
100	1	0.17	1.12	1.29
100	2	0.33	1.09	1.42
100	3	1.07	0.98	2.05
100	6	1.34	0.70	2.04
100	12	1.15	0.47	1.62
100	24	0.97	0.32	1.29

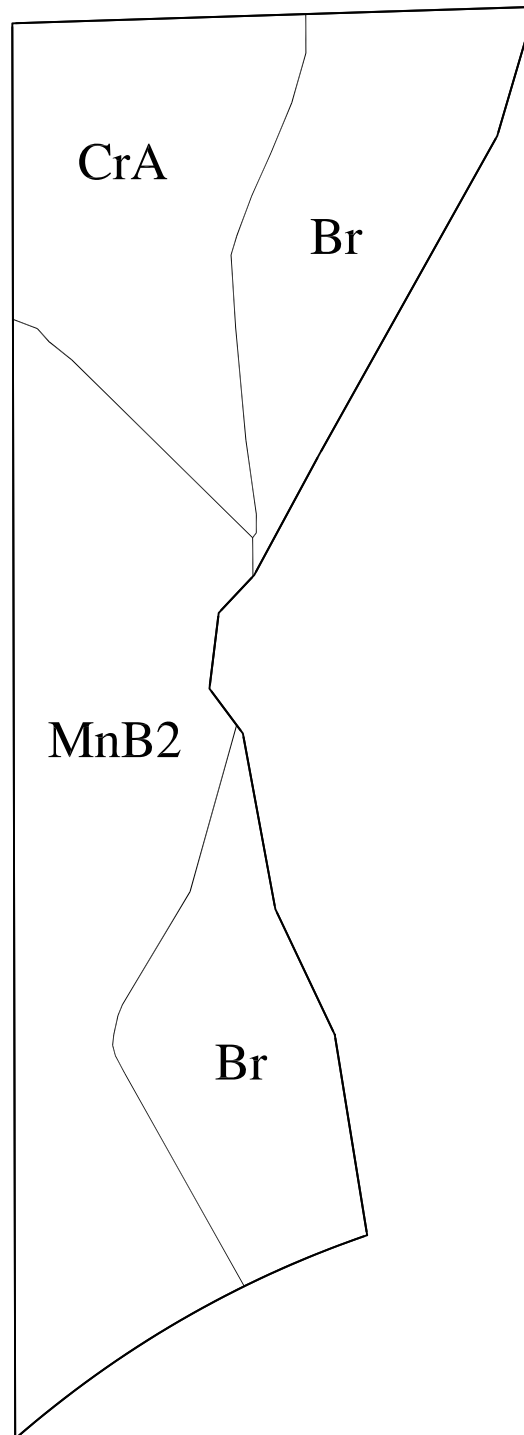
SITE



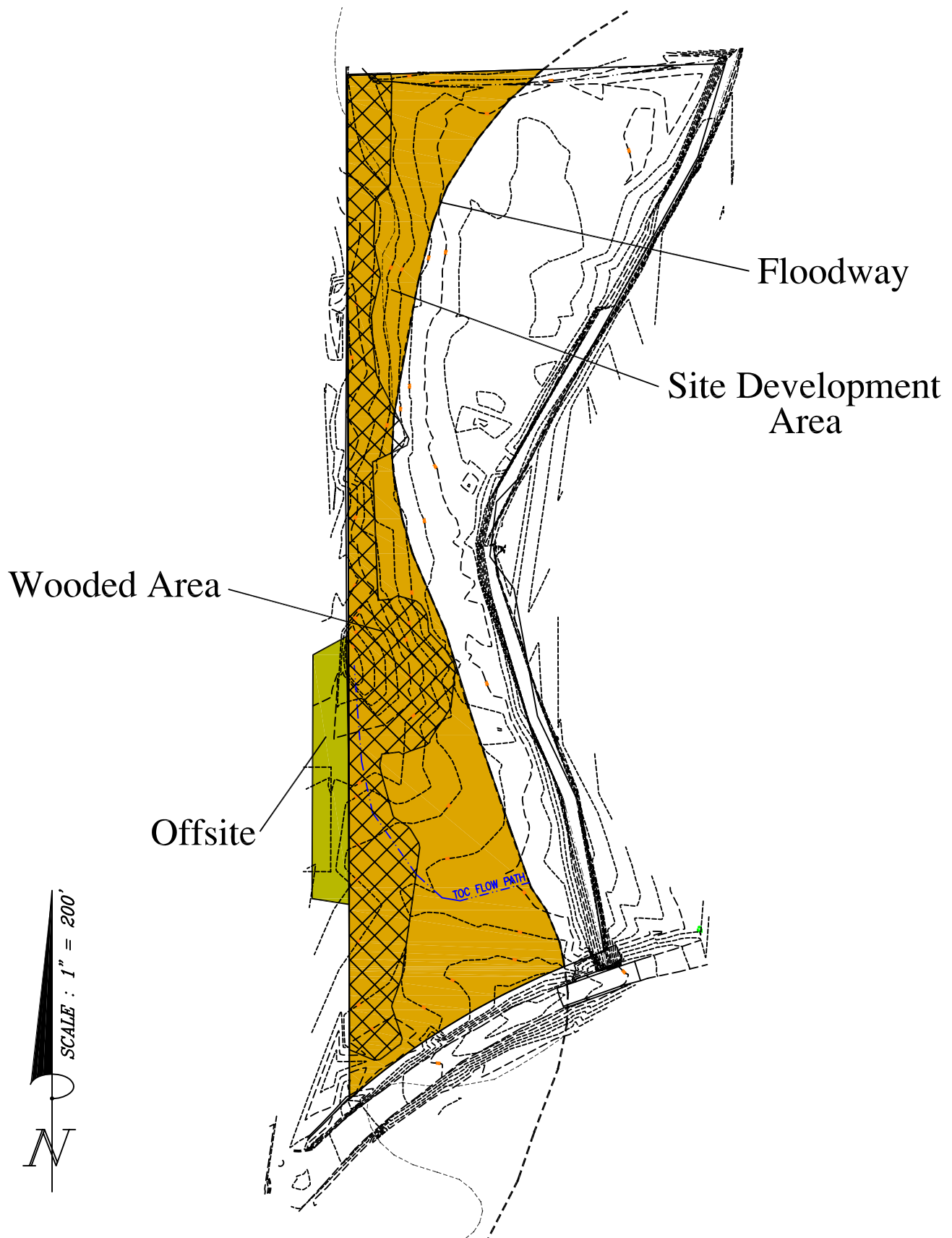
Area Map



Soils Map



Existing Conditions Map



Runoff Curve Number

Project	Sister's Self Storage	By	VT	Date	9/16/2009
Location	Franklin Johnson County	Checked	DJS	Date	9/16/2009
☐ X ☐ Present ☐ Developed					
Offsite					
Soil Name and hydrologic group	Cover Description	CN	Area (ac)	Product	
Br / MnB2 - B	Impervious Surface	98	0.23	22.54	
Br / MnB2 - B	Good Condition Grass Cover	61	0.21	12.81	
				0	
				0	
				0	
				0	
Totals =			0.44	35.35	

CN = 80.3

TR55 Tc Worksheet

Hyd. No. 1

OFF 2YR 1HR

Storm frequency = 2 yrs

Sheet Flow

Manning's n-value = 0.011
Flow length = 22.0 ft
Two-year 24-hr precip. = 2.64 in
Land slope = 1.0 %

Travel Time = 0.5 min

Shallow Concentrated Flow

Flow length = 35 ft
Watercourse slope = 2.9 %
Surface description = Unpaved
Average velocity = 2.75 ft/s

Travel Time = 0.2 min

Channel Flow

Cross section flow area = 0.0 sqft
Wetted perimeter = 0.0 ft
Channel slope = 0.0 %
Manning's n-value = 0.015
Velocity = 0.00 ft/s
Flow length = 0.0 ft

Travel Time = min

Total Travel Time, Tc = 0.7 min

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Return period (yrs)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description
1	SCS Runoff	0.13	3	33	269	2	----	-----	-----	OFF 2YR 1HR
2	SCS Runoff	0.13	3	60	456	2	----	-----	-----	OFF 2YR 2HR
3	SCS Runoff	0.11	3	90	581	2	----	-----	-----	OFF 2YR 3HR
4	SCS Runoff	0.08	3	162	842	2	----	-----	-----	OFF 2YR 6HR
5	SCS Runoff	0.06	3	324	1,251	2	----	-----	-----	OFF 2YR 12HR
6	SCS Runoff	0.04	3	648	1,503	2	----	-----	-----	OFF 2YR 24HR
7	SCS Runoff	0.44	3	33	824	10	----	-----	-----	OFF 10YR 1HR
8	SCS Runoff	0.36	3	57	1,251	10	----	-----	-----	OFF 10YR 2HR
9	SCS Runoff	0.29	3	84	1,503	10	----	-----	-----	OFF 10YR 3HR
10	SCS Runoff	0.20	3	162	2,037	10	----	-----	-----	OFF 10YR 6HR
11	SCS Runoff	0.13	3	324	2,602	10	----	-----	-----	OFF 10YR 12HR
12	SCS Runoff	0.08	3	648	3,193	10	----	-----	-----	OFF 10YR 24HR
13	SCS Runoff	0.96	3	30	1,765	100	----	-----	-----	OFF 100YR 1HR
14	SCS Runoff	0.71	3	57	2,482	100	----	-----	-----	OFF 100YR 2HR
15	SCS Runoff	0.56	3	81	2,932	100	----	-----	-----	OFF 100YR 3HR
16	SCS Runoff	0.36	3	162	3,724	100	----	-----	-----	OFF 100YR 6HR
17	SCS Runoff	0.22	3	324	4,584	100	----	-----	-----	OFF 100YR 12HR
18	SCS Runoff	0.14	3	648	5,708	100	----	-----	-----	OFF 100YR 24HR
20	SCS Runoff	2.94	3	36	6,076	2	----	-----	-----	2YR 1HR
21	SCS Runoff	2.50	3	60	8,961	2	----	-----	-----	2YR 2HR
22	SCS Runoff	2.06	3	87	10,794	2	----	-----	-----	2YR 3HR
23	SCS Runoff	1.41	3	165	14,422	2	----	-----	-----	2YR 6HR
24	SCS Runoff	0.97	3	324	19,816	2	----	-----	-----	2YR 12HR
25	SCS Runoff	0.56	3	648	23,021	2	----	-----	-----	2YR 24HR
26	SCS Runoff	7.00	3	33	14,173	10	----	-----	-----	10YR 1HR
27	SCS Runoff	5.47	3	60	19,816	10	----	-----	-----	10YR 2HR
28	SCS Runoff	4.29	3	84	23,021	10	----	-----	-----	10YR 3HR
29	SCS Runoff	2.80	3	162	29,629	10	----	-----	-----	10YR 6HR
30	SCS Runoff	1.72	3	324	36,433	10	----	-----	-----	10YR 12HR
31	SCS Runoff	1.01	3	648	43,379	10	----	-----	-----	10YR 24HR
Proj. file: PR 03.24.11.GPW				IDF file: Central IN.IDF				Run date: 03-25-2011		

Hydrograph Report

Page 1

English

Hyd. No. 1

OFF 2YR 1HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 1.25 in
Storm duration = 1 hrs

Peak discharge = 0.13 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 269 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.35 0.00
0.85 0.12

...End

Hydrograph Report

Page 1

English

Hyd. No. 2

OFF 2YR 2HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 1.52 in
Storm duration = 2 hrs

Peak discharge = 0.13 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 456 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.60	0.00
1.10	0.11
1.60	0.10
2.10	0.03

...End

Hydrograph Report

Page 1

English

Hyd. No. 3

OFF 2YR 3HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 1.68 in
Storm duration = 3 hrs

Peak discharge = 0.11 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 581 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.85	0.00
1.35	0.11
1.85	0.08
2.35	0.08
2.85	0.05

...End

Hydrograph Report

Page 1

English

Hyd. No. 4

OFF 2YR 6HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 1.98 in
Storm duration = 6 hrs

Peak discharge = 0.08 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 842 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

1.55	0.00
2.05	0.05
2.55	0.08
3.05	0.08
3.55	0.05
4.05	0.05
4.55	0.05
5.05	0.04
5.55	0.03
6.05	0.03

...End

Hydrograph Report

Page 1

English

Hyd. No. 5

OFF 2YR 12HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 2.40 in
Storm duration = 12 hrs

Peak discharge = 0.06 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 1,251 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

2.70	0.00
3.20	0.02
3.70	0.04
4.20	0.05
4.70	0.05
5.20	0.06
5.70	0.06
6.20	0.04
6.70	0.04
7.20	0.04
7.70	0.04
8.20	0.04
8.70	0.04
9.20	0.04
9.70	0.03
10.20	0.03
10.70	0.03
11.20	0.02
11.70	0.02

...End

Hydrograph Report

Page 1

English

Hyd. No. 6

OFF 2YR 24HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 2.64 in
Storm duration = 24 hrs

Peak discharge = 0.04 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 1,503 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)	Time -- Outflow (hrs cfs)
5.00 0.00	21.00 0.02
5.50 0.01	21.50 0.02
6.00 0.01	22.00 0.01
6.50 0.02	22.50 0.01
7.00 0.02	23.00 0.01
7.50 0.02	23.50 0.01
8.00 0.03	24.00 0.01
8.50 0.03	
9.00 0.03	
9.50 0.03	...End
10.00 0.04	
10.50 0.04	
11.00 0.03	
11.50 0.03	
12.00 0.04	
12.50 0.02	
13.00 0.02	
13.50 0.02	
14.00 0.02	
14.50 0.02	
15.00 0.02	
15.50 0.02	
16.00 0.02	
16.50 0.02	
17.00 0.02	
17.50 0.02	
18.00 0.02	
18.50 0.02	
19.00 0.02	
19.50 0.02	
20.00 0.02	
20.50 0.02	

Hydrograph Report

Page 1

English

Hyd. No. 7

OFF 10YR 1HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 1.96 in
Storm duration = 1 hrs

Peak discharge = 0.44 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 824 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.30 0.03
0.80 0.31

...End

Hydrograph Report

Page 1

English

Hyd. No. 8

OFF 10YR 2HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 2.40 in
Storm duration = 2 hrs

Peak discharge = 0.36 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 1,251 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.50	0.01
1.00	0.36
1.50	0.22
2.00	0.14

...End

Hydrograph Report

Page 1

English

Hyd. No. 9

OFF 10YR 3HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 2.64 in
Storm duration = 3 hrs

Peak discharge = 0.29 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 1,503 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.70	0.01
1.20	0.25
1.70	0.19
2.20	0.17
2.70	0.13

...End

Hydrograph Report

Page 1

English

Hyd. No. 10

OFF 10YR 6HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 3.12 in
Storm duration = 6 hrs

Peak discharge = 0.20 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 2,037 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

1.20	0.00
1.70	0.12
2.20	0.17
2.70	0.20 <<
3.20	0.13
3.70	0.11
4.20	0.11
4.70	0.11
5.20	0.08
5.70	0.07

...End

Hydrograph Report

Page 1

English

Hyd. No. 11

OFF 10YR 12HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 3.60 in
Storm duration = 12 hrs

Peak discharge = 0.13 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 2,602 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

2.15	0.00
2.65	0.03
3.15	0.07
3.65	0.10
4.15	0.11
4.65	0.12
5.15	0.13
5.65	0.11
6.15	0.08
6.65	0.08
7.15	0.07
7.65	0.07
8.15	0.07
8.65	0.06
9.15	0.07
9.65	0.06
10.15	0.05
10.65	0.05
11.15	0.04
11.65	0.04
12.15	0.01

...End

Hydrograph Report

Page 1

English

Hyd. No. 12

OFF 10YR 24HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 4.08 in
Storm duration = 24 hrs

Peak discharge = 0.08 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 3,193 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)	Time -- Outflow (hrs cfs)
3.90 0.00	19.90 0.03
4.40 0.01	20.40 0.03
4.90 0.02	20.90 0.03
5.40 0.03	21.40 0.03
5.90 0.04	21.90 0.02
6.40 0.05	22.40 0.02
6.90 0.06	22.90 0.02
7.40 0.06	23.40 0.02
7.90 0.07	23.90 0.02
8.40 0.07	
8.90 0.07	
9.40 0.07	...End
9.90 0.08	
10.40 0.08	
10.90 0.07	
11.40 0.07	
11.90 0.07	
12.40 0.05	
12.90 0.05	
13.40 0.04	
13.90 0.04	
14.40 0.04	
14.90 0.04	
15.40 0.04	
15.90 0.04	
16.40 0.04	
16.90 0.04	
17.40 0.04	
17.90 0.04	
18.40 0.04	
18.90 0.04	
19.40 0.03	

Hydrograph Report

Page 1

English

Hyd. No. 13

OFF 100YR 1HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 2.88 in
Storm duration = 1 hrs

Peak discharge = 0.96 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 1,765 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.25 0.04
0.75 0.59

...End

Hydrograph Report

Page 1

English

Hyd. No. 14

OFF 100YR 2HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 3.50 in
Storm duration = 2 hrs

Peak discharge = 0.71 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 2,482 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.40	0.01
0.90	0.70
1.40	0.39
1.90	0.26

...End

Hydrograph Report

Page 1

English

Hyd. No. 15

OFF 100YR 3HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 3.87 in
Storm duration = 3 hrs

Peak discharge = 0.56 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 2,932 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

0.55	0.01
1.05	0.48
1.55	0.49
2.05	0.30
2.55	0.23
3.05	0.15

...End

Hydrograph Report

Page 1

English

Hyd. No. 16

OFF 100YR 6HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 4.50 in
Storm duration = 6 hrs

Peak discharge = 0.36 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 3,724 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

1.00	0.01
1.50	0.17
2.00	0.31
2.50	0.35
3.00	0.32
3.50	0.20
4.00	0.18
4.50	0.17
5.00	0.14
5.50	0.12
6.00	0.11

...End

Hydrograph Report

Page 1

English

Hyd. No. 17

OFF 100YR 12HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 5.16 in
Storm duration = 12 hrs

Peak discharge = 0.22 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 4,584 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

1.75	0.00
2.25	0.05
2.75	0.10
3.25	0.17
3.75	0.19
4.25	0.21
4.75	0.21
5.25	0.22
5.75	0.19
6.25	0.13
6.75	0.12
7.25	0.12
7.75	0.11
8.25	0.11
8.75	0.10
9.25	0.11
9.75	0.08
10.25	0.08
10.75	0.08
11.25	0.06
11.75	0.07

...End

Hydrograph Report

Page 1

English

Hyd. No. 18

OFF 100YR 24HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 0.44 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 6.00 in
Storm duration = 24 hrs

Peak discharge = 0.14 cfs
Time interval = 3 min
Curve number = 80.3
Hydraulic length = 57 ft
Time of conc. (Tc) = 5 min
Distribution = Huff
Shape factor = 484

Total Volume = 5,708 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)	Time -- Outflow (hrs cfs)
3.05 0.00	19.05 0.06
3.55 0.01	19.55 0.05
4.05 0.03	20.05 0.05
4.55 0.04	20.55 0.05
5.05 0.06	21.05 0.05
5.55 0.07	21.55 0.05
6.05 0.09	22.05 0.04
6.55 0.12	22.55 0.04
7.05 0.13	23.05 0.04
7.55 0.12	23.55 0.04
8.05 0.13	24.05 0.03
8.55 0.12	
9.05 0.13	
9.55 0.13	...End
10.05 0.13	
10.55 0.13	
11.05 0.12	
11.55 0.12	
12.05 0.11	
12.55 0.08	
13.05 0.08	
13.55 0.07	
14.05 0.07	
14.55 0.07	
15.05 0.07	
15.55 0.07	
16.05 0.07	
16.55 0.07	
17.05 0.06	
17.55 0.06	
18.05 0.06	
18.55 0.06	

Runoff Curve Number

Project	Sister's Self Storage	By	VT	Date	3/23/2011
Location	Franklin Johnson County	Checked	DJS	Date	3/23/2011
		☒ Present	☐ Developed		
Existing					
Soil Name and hydrologic group	Cover Description	CN	Area (ac)	Product	
CrA - C	Woods	70	0.38	26.6	
Br / MnB2 - B	Woods	55	1.89	103.95	
CrA - C	Meadow	71	0.86	61.06	
Br / MnB2 - B	Meadow	58	2.06	119.48	
				0	
				0	
Totals =			5.19	311.09	

CN = 59.9

TR55 Tc Worksheet

Hyd. No. 1

2YR 1HR

Storm frequency = 2 yrs

Sheet Flow

Manning's n-value = 0.150
Flow length = 200.0 ft
Two-year 24-hr precip. = 2.64 in
Land slope = 3.0 %

Travel Time = **16.0 min**

Shallow Concentrated Flow

Flow length = 302 ft
Watercourse slope = 1.0 %
Surface description = Unpaved
Average velocity = 1.61 ft/s

Travel Time = **3.1 min**

Channel Flow

Cross section flow area = 0.0 sqft
Wetted perimeter = 0.0 ft
Channel slope = 0.0 %
Manning's n-value = 0.015
Velocity = 0.00 ft/s
Flow length = 0.0 ft

Travel Time = **min**

Total Travel Time, Tc = **19.1 min**

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Return period (yrs)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description
1	SCS Runoff	0.00	3	0	0	2	----	-----	-----	2YR 1HR
2	SCS Runoff	0.06	3	123	93	2	----	-----	-----	2YR 2HR
3	SCS Runoff	0.11	3	180	321	2	----	-----	-----	2YR 3HR
4	SCS Runoff	0.14	3	294	1,089	2	----	-----	-----	2YR 6HR
5	SCS Runoff	0.15	3	576	2,821	2	----	-----	-----	2YR 12HR
6	SCS Runoff	0.10	3	1152	4,113	2	----	-----	-----	2YR 24HR
8	SCS Runoff	0.65	3	63	1,025	10	----	-----	-----	10YR 1HR
9	SCS Runoff	0.82	3	105	2,821	10	----	-----	-----	10YR 2HR
10	SCS Runoff	0.76	3	147	4,113	10	----	-----	-----	10YR 3HR
11	SCS Runoff	0.66	3	186	7,272	10	----	-----	-----	10YR 6HR
12	SCS Runoff	0.55	3	360	11,091	10	----	-----	-----	10YR 12HR
13	SCS Runoff	0.40	3	720	15,471	10	----	-----	-----	10YR 24HR
15	SCS Runoff	2.71	3	54	5,603	100	----	-----	-----	100YR 1HR
16	SCS Runoff	2.49	3	72	10,246	100	----	-----	-----	100YR 2HR
17	SCS Runoff	2.42	3	96	13,492	100	----	-----	-----	100YR 3HR
18	SCS Runoff	1.91	3	180	19,698	100	----	-----	-----	100YR 6HR
19	SCS Runoff	1.35	3	330	26,976	100	----	-----	-----	100YR 12HR
20	SCS Runoff	0.96	3	648	37,171	100	----	-----	-----	100YR 24HR
Proj. file: Existing.GPW				IDF file: Central IN.IDF				Run date: 03-25-2011		

Hydrograph Report

Page 1

English

Hyd. No. 1

2YR 1HR

Hydrograph type	= SCS Runoff	Peak discharge	= 0.00 cfs
Storm frequency	= 2 yrs	Time interval	= 3 min
Drainage area	= 5.19 ac	Curve number	= 59.9
Basin Slope	= 2.0 %	Hydraulic length	= 502 ft
Tc method	= USER	Time of conc. (Tc)	= 19.1 min
Total precip.	= 1.25 in	Distribution	= Huff
Storm duration	= 1 hrs	Shape factor	= 484

Total Volume = 0 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)	Time -- Outflow (hrs cfs)	Time -- Outflow (hrs cfs)	Time -- Outflow (hrs cfs)
0.00 0.00 <<	16.00 0.00 <<	32.00 0.00 <<	48.00 0.00 <<
0.50 0.00 <<	16.50 0.00 <<	32.50 0.00 <<	48.50 0.00 <<
1.00 0.00 <<	17.00 0.00 <<	33.00 0.00 <<	49.00 0.00 <<
1.50 0.00 <<	17.50 0.00 <<	33.50 0.00 <<	49.50 0.00 <<
2.00 0.00 <<	18.00 0.00 <<	34.00 0.00 <<	50.00 0.00 <<
2.50 0.00 <<	18.50 0.00 <<	34.50 0.00 <<	50.50 0.00 <<
3.00 0.00 <<	19.00 0.00 <<	35.00 0.00 <<	51.00 0.00 <<
3.50 0.00 <<	19.50 0.00 <<	35.50 0.00 <<	51.50 0.00 <<
4.00 0.00 <<	20.00 0.00 <<	36.00 0.00 <<	52.00 0.00 <<
4.50 0.00 <<	20.50 0.00 <<	36.50 0.00 <<	52.50 0.00 <<
5.00 0.00 <<	21.00 0.00 <<	37.00 0.00 <<	53.00 0.00 <<
5.50 0.00 <<	21.50 0.00 <<	37.50 0.00 <<	53.50 0.00 <<
6.00 0.00 <<	22.00 0.00 <<	38.00 0.00 <<	54.00 0.00 <<
6.50 0.00 <<	22.50 0.00 <<	38.50 0.00 <<	54.50 0.00 <<
7.00 0.00 <<	23.00 0.00 <<	39.00 0.00 <<	55.00 0.00 <<
7.50 0.00 <<	23.50 0.00 <<	39.50 0.00 <<	55.50 0.00 <<
8.00 0.00 <<	24.00 0.00 <<	40.00 0.00 <<	56.00 0.00 <<
8.50 0.00 <<	24.50 0.00 <<	40.50 0.00 <<	56.50 0.00 <<
9.00 0.00 <<	25.00 0.00 <<	41.00 0.00 <<	57.00 0.00 <<
9.50 0.00 <<	25.50 0.00 <<	41.50 0.00 <<	57.50 0.00 <<
10.00 0.00 <<	26.00 0.00 <<	42.00 0.00 <<	58.00 0.00 <<
10.50 0.00 <<	26.50 0.00 <<	42.50 0.00 <<	58.50 0.00 <<
11.00 0.00 <<	27.00 0.00 <<	43.00 0.00 <<	59.00 0.00 <<
11.50 0.00 <<	27.50 0.00 <<	43.50 0.00 <<	59.50 0.00 <<
12.00 0.00 <<	28.00 0.00 <<	44.00 0.00 <<	60.00 0.00 <<
12.50 0.00 <<	28.50 0.00 <<	44.50 0.00 <<	60.50 0.00 <<
13.00 0.00 <<	29.00 0.00 <<	45.00 0.00 <<	61.00 0.00 <<
13.50 0.00 <<	29.50 0.00 <<	45.50 0.00 <<	61.50 0.00 <<
14.00 0.00 <<	30.00 0.00 <<	46.00 0.00 <<	62.00 0.00 <<
14.50 0.00 <<	30.50 0.00 <<	46.50 0.00 <<	62.50 0.00 <<
15.00 0.00 <<	31.00 0.00 <<	47.00 0.00 <<	63.00 0.00 <<
15.50 0.00 <<	31.50 0.00 <<	47.50 0.00 <<	63.50 0.00 <<

Continues on next page...

Hydrograph Discharge Table**Time -- Outflow
(hrs cfs)**

64.00	0.00 <<
64.50	0.00 <<
65.00	0.00 <<
65.50	0.00 <<
66.00	0.00 <<
66.50	0.00 <<
67.00	0.00 <<
67.50	0.00 <<
68.00	0.00 <<
68.50	0.00 <<
69.00	0.00 <<
69.50	0.00 <<
70.00	0.00 <<
70.50	0.00 <<
71.00	0.00 <<
71.50	0.00 <<
72.00	0.00 <<

...End

Hydrograph Report

Page 1

English

Hyd. No. 2

2YR 2HR

Hydrograph type	=	SCS Runoff	Peak discharge	=	0.06 cfs
Storm frequency	=	2 yrs	Time interval	=	3 min
Drainage area	=	5.19 ac	Curve number	=	59.9
Basin Slope	=	2.0 %	Hydraulic length	=	502 ft
Tc method	=	USER	Time of conc. (Tc)	=	19.1 min
Total precip.	=	1.52 in	Distribution	=	Huff
Storm duration	=	2 hrs	Shape factor	=	484

Total Volume = 93 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

1.60	0.00
2.10	0.06

...End

Hydrograph Report

Page 1

English

Hyd. No. 3

2YR 3HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 1.68 in
Storm duration = 3 hrs

Peak discharge = 0.11 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

Total Volume = 321 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

2.05	0.00
2.55	0.08
3.05	0.10

...End

Hydrograph Report

Page 1

English

Hyd. No. 4

2YR 6HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 1.98 in
Storm duration = 6 hrs

Peak discharge = 0.14 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

Total Volume = 1,089 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

3.15	0.00
3.65	0.05
4.15	0.09
4.65	0.13
5.15	0.13
5.65	0.12
6.15	0.09

...End

Hydrograph Report

Page 1

English

Hyd. No. 5

2YR 12HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 2.40 in
Storm duration = 12 hrs

Peak discharge = 0.15 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

Total Volume = 2,821 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

5.15	0.00
5.65	0.06
6.15	0.10
6.65	0.10
7.15	0.11
7.65	0.11
8.15	0.12
8.65	0.13
9.15	0.14
9.65	0.15
10.15	0.12
10.65	0.13
11.15	0.11
11.65	0.11
12.15	0.08

...End

Hydrograph Report

Page 1

English

Hyd. No. 6

2YR 24HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 2.64 in
Storm duration = 24 hrs

Peak discharge = 0.10 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

Total Volume = 4,113 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

9.45	0.00
9.95	0.02
10.45	0.05
10.95	0.07
11.45	0.08
11.95	0.09
12.45	0.07
12.95	0.08
13.45	0.08
13.95	0.08
14.45	0.08
14.95	0.08
15.45	0.08
15.95	0.09
16.45	0.09
16.95	0.09
17.45	0.09
17.95	0.09
18.45	0.10
18.95	0.10
19.45	0.09
19.95	0.08
20.45	0.08
20.95	0.08
21.45	0.09
21.95	0.07
22.45	0.07
22.95	0.07
23.45	0.07
23.95	0.07
24.45	0.00

...End

Hydrograph Report

Page 1

English

Hyd. No. 8

10YR 1HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 1.96 in
Storm duration = 1 hrs

Peak discharge = 0.65 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

Total Volume = 1,025 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.60	0.02
1.10	0.60

...End

Hydrograph Report

Page 1

English

Hyd. No. 9

10YR 2HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 2.40 in
Storm duration = 2 hrs

Peak discharge = 0.82 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

Total Volume = 2,821 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

0.90	0.01
1.40	0.65
1.90	0.77
2.40	0.05

...End

Hydrograph Report

Page 1

English

Hyd. No. 10

10YR 3HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 2.64 in
Storm duration = 3 hrs

Peak discharge = 0.76 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

Total Volume = 4,113 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

1.25	0.01
1.75	0.61
2.25	0.70
2.75	0.68
3.25	0.23

...End

Hydrograph Report

Page 1

English

Hyd. No. 11

10YR 6HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 3.12 in
Storm duration = 6 hrs

Peak discharge = 0.66 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

Total Volume = 7,272 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

2.15	0.01
2.65	0.42
3.15	0.65
3.65	0.54
4.15	0.56
4.65	0.59
5.15	0.52
5.65	0.45
6.15	0.32

...End

Hydrograph Report

Page 1

English

Hyd. No. 12

10YR 12HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 3.60 in
Storm duration = 12 hrs

Peak discharge = 0.55 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

Total Volume = 11,091 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

3.85	0.01
4.35	0.18
4.85	0.34
5.35	0.49
5.85	0.52
6.35	0.43
6.85	0.40
7.35	0.40
7.85	0.40
8.35	0.41
8.85	0.41
9.35	0.43
9.85	0.38
10.35	0.34
10.85	0.35
11.35	0.28
11.85	0.30
12.35	0.05

...End

Hydrograph Report

Page 1

English

Hyd. No. 13

10YR 24HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 4.08 in
Storm duration = 24 hrs

Peak discharge = 0.40 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

Total Volume = 15,471 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)	Time -- Outflow (hrs cfs)
7.00 0.00	23.00 0.18
7.50 0.07	23.50 0.19
8.00 0.13	24.00 0.19
8.50 0.19	
9.00 0.23	
9.50 0.28	...End
10.00 0.32	
10.50 0.36	
11.00 0.37	
11.50 0.37	
12.00 0.40 <<	
12.50 0.28	
13.00 0.29	
13.50 0.27	
14.00 0.27	
14.50 0.27	
15.00 0.26	
15.50 0.27	
16.00 0.27	
16.50 0.27	
17.00 0.27	
17.50 0.27	
18.00 0.27	
18.50 0.28	
19.00 0.29	
19.50 0.24	
20.00 0.22	
20.50 0.22	
21.00 0.22	
21.50 0.23	
22.00 0.18	
22.50 0.18	

Hydrograph Report

Page 1

English

Hyd. No. 15

100YR 1HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 2.88 in
Storm duration = 1 hrs

Peak discharge = 2.71 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

Total Volume = 5,603 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.45	0.15
0.95	2.69
1.45	0.06

...End

Hydrograph Report

Page 1

English

Hyd. No. 16

100YR 2HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 3.50 in
Storm duration = 2 hrs

Peak discharge = 2.49 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

Total Volume = 10,246 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.70	0.04
1.20	2.49 <<
1.70	2.30
2.20	0.92

...End

Hydrograph Report

Page 1

English

Hyd. No. 17

100YR 3HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 3.87 in
Storm duration = 3 hrs

Peak discharge = 2.42 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

Total Volume = 13,492 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

1.00	0.07
1.50	2.28
2.00	1.90
2.50	1.93
3.00	1.39

...End

Hydrograph Report

Page 1

English

Hyd. No. 18

100YR 6HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 4.50 in
Storm duration = 6 hrs

Peak discharge = 1.91 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

Total Volume = 19,698 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

1.75	0.04
2.25	1.05
2.75	1.82
3.25	1.62
3.75	1.32
4.25	1.32
4.75	1.35
5.25	1.07
5.75	0.89
6.25	0.35

...End

Hydrograph Report

Page 1

English

Hyd. No. 19

100YR 12HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 5.16 in
Storm duration = 12 hrs

Peak discharge = 1.35 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

Total Volume = 26,976 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

3.15	0.02
3.65	0.46
4.15	0.79
4.65	1.02
5.15	1.24
5.65	1.30
6.15	1.23
6.65	0.95
7.15	0.88
7.65	0.84
8.15	0.85
8.65	0.84
9.15	0.85
9.65	0.88
10.15	0.68
10.65	0.69
11.15	0.56
11.65	0.56
12.15	0.42

...End

Hydrograph Report

Page 1

English

Hyd. No. 20

100YR 24HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 5.19 ac
Basin Slope = 2.0 %
Tc method = USER
Total precip. = 6.00 in
Storm duration = 24 hrs

Peak discharge = 0.96 cfs
Time interval = 3 min
Curve number = 59.9
Hydraulic length = 502 ft
Time of conc. (Tc) = 19.1 min
Distribution = Huff
Shape factor = 484

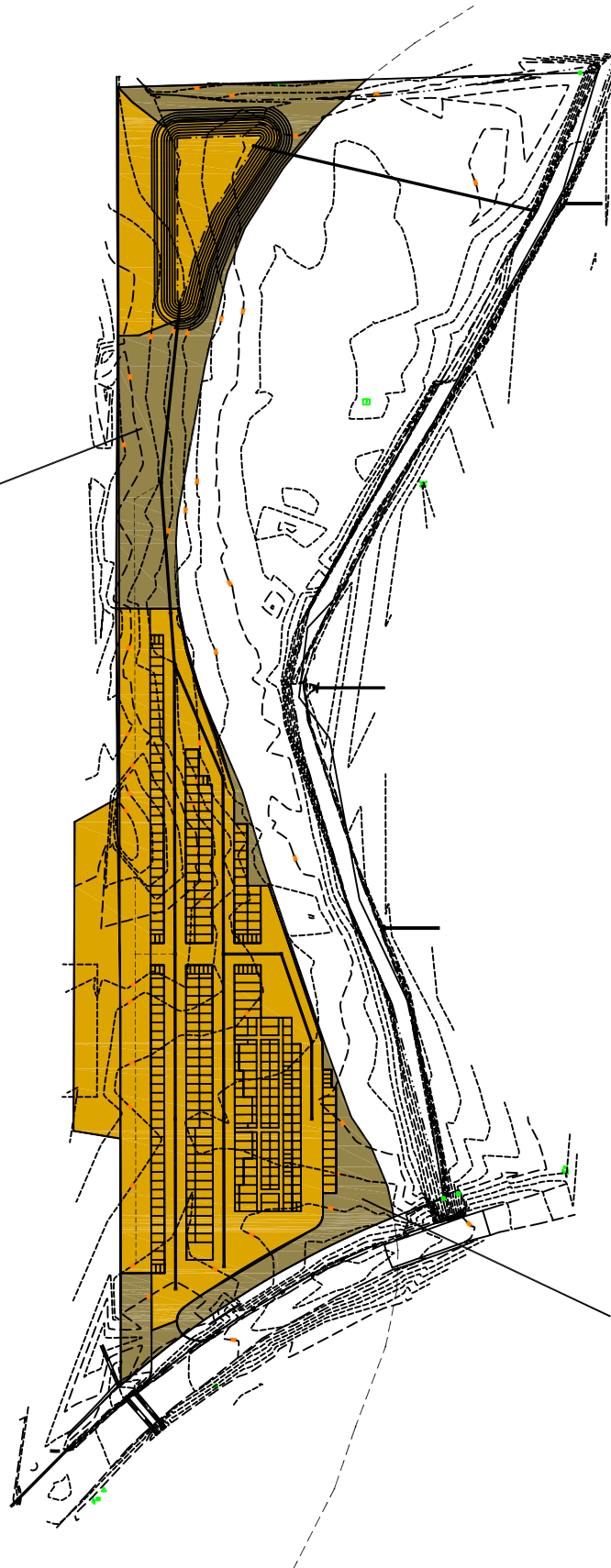
Total Volume = 37,171 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)	Time -- Outflow (hrs cfs)
5.65 0.01	21.65 0.44
6.15 0.13	22.15 0.34
6.65 0.31	22.65 0.35
7.15 0.47	23.15 0.36
7.65 0.54	23.65 0.37
8.15 0.64	24.15 0.27
8.65 0.70	
9.15 0.76	
9.65 0.83	...End
10.15 0.88	
10.65 0.94	
11.15 0.87	
11.65 0.88	
12.15 0.83	
12.65 0.63	
13.15 0.64	
13.65 0.57	
14.15 0.58	
14.65 0.56	
15.15 0.55	
15.65 0.56	
16.15 0.56	
16.65 0.56	
17.15 0.54	
17.65 0.54	
18.15 0.55	
18.65 0.57	
19.15 0.58	
19.65 0.44	
20.15 0.44	
20.65 0.44	
21.15 0.44	

Developed Conditions Map

Area to
Detention



Bypass
Area

Runoff Curve Number

Project	Sister's Self Storage	By	VT	Date	3/30/2011
Location	Franklin Johnson County	Checked	DJS	Date	3/30/2011
		☐	Present	☒	Developed
Bypass Area					
Soil Name and hydrologic group	Cover Description	CN	Area (ac)	Product	
CrA - C	Good Condition Grass Cover	74	0.50	37	
Br / MnB2 - B	Good Condition Grass Cover	61	0.93	56.73	
				0	
				0	
				0	
				0	
		Totals =		1.43	93.73

CN = 65.5

TR55 Tc Worksheet

Hyd. No. 1

BY 2YR 1HR

Storm frequency = 2 yrs

Sheet Flow

Manning's n-value = 0.150
Flow length = 70.0 ft
Two-year 24-hr precip. = 2.64 in
Land slope = 1.0 %

Travel Time = 10.7 min

Shallow Concentrated Flow

Flow length = 50 ft
Watercourse slope = 1.0 %
Surface description = Unpaved
Average velocity = 1.61 ft/s

Travel Time = 0.5 min

Channel Flow

Cross section flow area = 0.0 sqft
Wetted perimeter = 0.0 ft
Channel slope = 0.0 %
Manning's n-value = 0.015
Velocity = 0.00 ft/s
Flow length = 0.0 ft

Travel Time = min

Total Travel Time, Tc = 11.2 min

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Return period (yrs)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description
1	SCS Runoff	0.04	3	63	37	2	----	-----	-----	BY 2YR 1HR
2	SCS Runoff	0.07	3	108	197	2	----	-----	-----	BY 2YR 2HR
3	SCS Runoff	0.08	3	147	346	2	----	-----	-----	BY 2YR 3HR
4	SCS Runoff	0.07	3	288	720	2	----	-----	-----	BY 2YR 6HR
5	SCS Runoff	0.07	3	360	1,423	2	----	-----	-----	BY 2YR 12HR
6	SCS Runoff	0.05	3	720	1,906	2	----	-----	-----	BY 2YR 24HR
7	SCS Runoff	0.38	3	54	691	10	----	-----	-----	BY 10YR 1HR
8	SCS Runoff	0.35	3	99	1,423	10	----	-----	-----	BY 10YR 2HR
9	SCS Runoff	0.34	3	93	1,906	10	----	-----	-----	BY 10YR 3HR
10	SCS Runoff	0.29	3	180	3,023	10	----	-----	-----	BY 10YR 6HR
11	SCS Runoff	0.22	3	327	4,308	10	----	-----	-----	BY 10YR 12HR
12	SCS Runoff	0.15	3	648	5,733	10	----	-----	-----	BY 10YR 24HR
13	SCS Runoff	1.12	3	42	2,441	100	----	-----	-----	BY 100YR 1HR
14	SCS Runoff	1.09	3	63	4,028	100	----	-----	-----	BY 100YR 2HR
15	SCS Runoff	0.98	3	90	5,094	100	----	-----	-----	BY 100YR 3HR
16	SCS Runoff	0.70	3	165	7,076	100	----	-----	-----	BY 100YR 6HR
17	SCS Runoff	0.47	3	324	9,339	100	----	-----	-----	BY 100YR 12HR
18	SCS Runoff	0.32	3	648	12,436	100	----	-----	-----	BY 100YR 24HR
Proj. file: Bypass 03.30.11.GPW				IDF file: Central IN.IDF				Run date: 03-30-2011		

Hydrograph Report

Page 1

English

Hyd. No. 1

BY 2YR 1HR

Hydrograph type	=	SCS Runoff	Peak discharge	=	0.04 cfs
Storm frequency	=	2 yrs	Time interval	=	3 min
Drainage area	=	1.43 ac	Curve number	=	65.5
Basin Slope	=	1.0 %	Hydraulic length	=	120 ft
Tc method	=	USER	Time of conc. (Tc)	=	11.2 min
Total precip.	=	1.25 in	Distribution	=	Huff
Storm duration	=	1 hrs	Shape factor	=	484

Total Volume = 37 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

0.75	0.00
1.25	0.01

...End

Hydrograph Report

Page 1

English

Hyd. No. 2

BY 2YR 2HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 1.43 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 1.52 in
Storm duration = 2 hrs

Peak discharge = 0.07 cfs
Time interval = 3 min
Curve number = 65.5
Hydraulic length = 120 ft
Time of conc. (Tc) = 11.2 min
Distribution = Huff
Shape factor = 484

Total Volume = 197 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

1.10	0.00
1.60	0.07
2.10	0.05

...End

Hydrograph Report

Page 1

English

Hyd. No. 3

BY 2YR 3HR

Hydrograph type	=	SCS Runoff	Peak discharge	=	0.08 cfs
Storm frequency	=	2 yrs	Time interval	=	3 min
Drainage area	=	1.43 ac	Curve number	=	65.5
Basin Slope	=	1.0 %	Hydraulic length	=	120 ft
Tc method	=	USER	Time of conc. (Tc)	=	11.2 min
Total precip.	=	1.68 in	Distribution	=	Huff
Storm duration	=	3 hrs	Shape factor	=	484

Total Volume = 346 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

1.45	0.00
1.95	0.05
2.45	0.08 <<
2.95	0.06

...End

Hydrograph Report

Page 1

English

Hyd. No. 4

BY 2YR 6HR

Hydrograph type	=	SCS Runoff	Peak discharge	=	0.07 cfs
Storm frequency	=	2 yrs	Time interval	=	3 min
Drainage area	=	1.43 ac	Curve number	=	65.5
Basin Slope	=	1.0 %	Hydraulic length	=	120 ft
Tc method	=	USER	Time of conc. (Tc)	=	11.2 min
Total precip.	=	1.98 in	Distribution	=	Huff
Storm duration	=	6 hrs	Shape factor	=	484

Total Volume = 720 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

2.50	0.00
3.00	0.05
3.50	0.05
4.00	0.06
4.50	0.07
5.00	0.06
5.50	0.06
6.00	0.05

...End

Hydrograph Report

Page 1

English

Hyd. No. 5

BY 2YR 12HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 1.43 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 2.40 in
Storm duration = 12 hrs

Peak discharge = 0.07 cfs
Time interval = 3 min
Curve number = 65.5
Hydraulic length = 120 ft
Time of conc. (Tc) = 11.2 min
Distribution = Huff
Shape factor = 484

Total Volume = 1,423 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

4.25	0.00
4.75	0.03
5.25	0.05
5.75	0.06
6.25	0.05
6.75	0.05
7.25	0.05
7.75	0.05
8.25	0.06
8.75	0.06
9.25	0.06
9.75	0.06
10.25	0.05
10.75	0.05
11.25	0.04
11.75	0.04
12.25	0.01

...End

Hydrograph Report

Page 1

English

Hyd. No. 6

BY 2YR 24HR

Hydrograph type	= SCS Runoff	Peak discharge	= 0.05 cfs
Storm frequency	= 2 yrs	Time interval	= 3 min
Drainage area	= 1.43 ac	Curve number	= 65.5
Basin Slope	= 1.0 %	Hydraulic length	= 120 ft
Tc method	= USER	Time of conc. (Tc)	= 11.2 min
Total precip.	= 2.64 in	Distribution	= Huff
Storm duration	= 24 hrs	Shape factor	= 484

Total Volume = 1,906 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)	Time -- Outflow (hrs cfs)
7.90 0.00	23.90 0.03
8.40 0.01	
8.90 0.02	
9.40 0.03	...End
9.90 0.03	
10.40 0.04	
10.90 0.04	
11.40 0.04	
11.90 0.05	
12.40 0.03	
12.90 0.04	
13.40 0.03	
13.90 0.03	
14.40 0.04	
14.90 0.03	
15.40 0.04	
15.90 0.04	
16.40 0.04	
16.90 0.04	
17.40 0.04	
17.90 0.04	
18.40 0.04	
18.90 0.04	
19.40 0.03	
19.90 0.03	
20.40 0.03	
20.90 0.03	
21.40 0.03	
21.90 0.03	
22.40 0.03	
22.90 0.03	
23.40 0.03	

Hydrograph Report

Page 1

English

Hyd. No. 7

BY 10YR 1HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 1.43 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 1.96 in
Storm duration = 1 hrs

Peak discharge = 0.38 cfs
Time interval = 3 min
Curve number = 65.5
Hydraulic length = 120 ft
Time of conc. (Tc) = 11.2 min
Distribution = Huff
Shape factor = 484

Total Volume = 691 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.45 0.01
0.95 0.37

...End

Hydrograph Report

Page 1

English

Hyd. No. 8

BY 10YR 2HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 1.43 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 2.40 in
Storm duration = 2 hrs

Peak discharge = 0.35 cfs
Time interval = 3 min
Curve number = 65.5
Hydraulic length = 120 ft
Time of conc. (Tc) = 11.2 min
Distribution = Huff
Shape factor = 484

Total Volume = 1,423 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.75	0.01
1.25	0.33
1.75	0.33
2.25	0.04

...End

Hydrograph Report

Page 1

English

Hyd. No. 9

BY 10YR 3HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 1.43 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 2.64 in
Storm duration = 3 hrs

Peak discharge = 0.34 cfs
Time interval = 3 min
Curve number = 65.5
Hydraulic length = 120 ft
Time of conc. (Tc) = 11.2 min
Distribution = Huff
Shape factor = 484

Total Volume = 1,906 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

1.05	0.01
1.55	0.34 <<
2.05	0.28
2.55	0.28
3.05	0.19

...End

Hydrograph Report

Page 1

English

Hyd. No. 10

BY 10YR 6HR

Hydrograph type	=	SCS Runoff	Peak discharge	=	0.29 cfs
Storm frequency	=	10 yrs	Time interval	=	3 min
Drainage area	=	1.43 ac	Curve number	=	65.5
Basin Slope	=	1.0 %	Hydraulic length	=	120 ft
Tc method	=	USER	Time of conc. (Tc)	=	11.2 min
Total precip.	=	3.12 in	Distribution	=	Huff
Storm duration	=	6 hrs	Shape factor	=	484

Total Volume = 3,023 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

1.85	0.01
2.35	0.18
2.85	0.29
3.35	0.22
3.85	0.21
4.35	0.21
4.85	0.22
5.35	0.18
5.85	0.15

...End

Hydrograph Report

Page 1

English

Hyd. No. 11

BY 10YR 12HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 1.43 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 3.60 in
Storm duration = 12 hrs

Peak discharge = 0.22 cfs
Time interval = 3 min
Curve number = 65.5
Hydraulic length = 120 ft
Time of conc. (Tc) = 11.2 min
Distribution = Huff
Shape factor = 484

Total Volume = 4,308 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

3.35	0.01
3.85	0.08
4.35	0.13
4.85	0.17
5.35	0.21
5.85	0.21
6.35	0.15
6.85	0.14
7.35	0.14
7.85	0.14
8.35	0.14
8.85	0.14
9.35	0.15
9.85	0.12
10.35	0.12
10.85	0.12
11.35	0.09
11.85	0.10

...End

Hydrograph Report

Page 1

English

Hyd. No. 12

BY 10YR 24HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 1.43 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 4.08 in
Storm duration = 24 hrs

Peak discharge = 0.15 cfs
Time interval = 3 min
Curve number = 65.5
Hydraulic length = 120 ft
Time of conc. (Tc) = 11.2 min
Distribution = Huff
Shape factor = 484

Total Volume = 5,733 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)	Time -- Outflow (hrs cfs)
6.15 0.00	22.15 0.06
6.65 0.03	22.65 0.06
7.15 0.06	23.15 0.06
7.65 0.07	23.65 0.06
8.15 0.09	24.15 0.03
8.65 0.10	
9.15 0.11	
9.65 0.12	...End
10.15 0.13	
10.65 0.15	
11.15 0.13	
11.65 0.14	
12.15 0.12	
12.65 0.10	
13.15 0.10	
13.65 0.09	
14.15 0.09	
14.65 0.09	
15.15 0.09	
15.65 0.09	
16.15 0.09	
16.65 0.09	
17.15 0.09	
17.65 0.09	
18.15 0.09	
18.65 0.09	
19.15 0.10	
19.65 0.07	
20.15 0.07	
20.65 0.07	
21.15 0.07	
21.65 0.07	

Hydrograph Report

Page 1

English

Hyd. No. 13

BY 100YR 1HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 1.43 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 2.88 in
Storm duration = 1 hrs

Peak discharge = 1.12 cfs
Time interval = 3 min
Curve number = 65.5
Hydraulic length = 120 ft
Time of conc. (Tc) = 11.2 min
Distribution = Huff
Shape factor = 484

Total Volume = 2,441 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.35	0.02
0.85	1.06

...End

Hydrograph Report

Page 1

English

Hyd. No. 14

BY 100YR 2HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 1.43 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 3.50 in
Storm duration = 2 hrs

Peak discharge = 1.09 cfs
Time interval = 3 min
Curve number = 65.5
Hydraulic length = 120 ft
Time of conc. (Tc) = 11.2 min
Distribution = Huff
Shape factor = 484

Total Volume = 4,028 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.60	0.02
1.10	1.08
1.60	0.82
2.10	0.42

...End

Hydrograph Report

Page 1

English

Hyd. No. 15

BY 100YR 3HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 1.43 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 3.87 in
Storm duration = 3 hrs

Peak discharge = 0.98 cfs
Time interval = 3 min
Curve number = 65.5
Hydraulic length = 120 ft
Time of conc. (Tc) = 11.2 min
Distribution = Huff
Shape factor = 484

Total Volume = 5,094 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.85	0.02
1.35	0.87
1.85	0.68
2.35	0.66
2.85	0.48

...End

Hydrograph Report

Page 1

English

Hyd. No. 16

BY 100YR 6HR

Hydrograph type	=	SCS Runoff	Peak discharge	=	0.70 cfs
Storm frequency	=	100 yrs	Time interval	=	3 min
Drainage area	=	1.43 ac	Curve number	=	65.5
Basin Slope	=	1.0 %	Hydraulic length	=	120 ft
Tc method	=	USER	Time of conc. (Tc)	=	11.2 min
Total precip.	=	4.50 in	Distribution	=	Huff
Storm duration	=	6 hrs	Shape factor	=	484

Total Volume = 7,076 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

1.50	0.01
2.00	0.39
2.50	0.61
3.00	0.68
3.50	0.46
4.00	0.43
4.50	0.42
5.00	0.37
5.50	0.33
6.00	0.29

...End

Hydrograph Report

Page 1

English

Hyd. No. 17

BY 100YR 12HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 1.43 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 5.16 in
Storm duration = 12 hrs

Peak discharge = 0.47 cfs
Time interval = 3 min
Curve number = 65.5
Hydraulic length = 120 ft
Time of conc. (Tc) = 11.2 min
Distribution = Huff
Shape factor = 484

Total Volume = 9,339 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

2.75	0.01
3.25	0.15
3.75	0.28
4.25	0.36
4.75	0.41
5.25	0.46
5.75	0.43
6.25	0.33
6.75	0.30
7.25	0.29
7.75	0.27
8.25	0.27
8.75	0.26
9.25	0.28
9.75	0.25
10.25	0.21
10.75	0.21
11.25	0.17
11.75	0.18
12.25	0.03

...End

Hydrograph Report

Page 1

English

Hyd. No. 18

BY 100YR 24HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 1.43 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 6.00 in
Storm duration = 24 hrs

Peak discharge = 0.32 cfs
Time interval = 3 min
Curve number = 65.5
Hydraulic length = 120 ft
Time of conc. (Tc) = 11.2 min
Distribution = Huff
Shape factor = 484

Total Volume = 12,436 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)	Time -- Outflow (hrs cfs)
4.90 0.00	20.90 0.13
5.40 0.04	21.40 0.13
5.90 0.08	21.90 0.11
6.40 0.14	22.40 0.10
6.90 0.19	22.90 0.11
7.40 0.21	23.40 0.11
7.90 0.23	23.90 0.11
8.40 0.26	
8.90 0.26	
9.40 0.28	...End
9.90 0.29	
10.40 0.31	
10.90 0.31	
11.40 0.28	
11.90 0.29	
12.40 0.20	
12.90 0.20	
13.40 0.19	
13.90 0.18	
14.40 0.18	
14.90 0.17	
15.40 0.17	
15.90 0.17	
16.40 0.17	
16.90 0.17	
17.40 0.17	
17.90 0.17	
18.40 0.17	
18.90 0.18	
19.40 0.15	
19.90 0.13	
20.40 0.13	

Runoff Curve Number

Project	Sister's Self Storage	By	VT	Date	3/30/2011
Location	Franklin Johnson County	Checked	DJS	Date	3/30/2011
		☐	Present	☒	Developed
Area to Detention					
Soil Name and hydrologic group	Cover Description	CN	Area (ac)	Product	
CrA - C	Good Condition Grass Cover	74	0.77	56.98	
Br / MnB2 - B	Good Condition Grass Cover	61	0.21	12.81	
Br/CrA/MnB2	Impervious Surface	98	2.78	272.44	
				0	
				0	
				0	
Totals =			3.76	342.23	

CN =

TR55 Tc Worksheet

Hyd. No. 20

2YR 1HR

Storm frequency = 2 yrs

Sheet Flow

Manning's n-value = 0.150
Flow length = 40.0 ft
Two-year 24-hr precip. = 2.64 in
Land slope = 1.0 %

Travel Time = 6.8 min

Shallow Concentrated Flow

Flow length = 80 ft
Watercourse slope = 1.0 %
Surface description = Paved
Average velocity = 2.03 ft/s

Travel Time = 0.7 min

Channel Flow

Cross section flow area = 4.9 sqft
Wetted perimeter = 7.8 ft
Channel slope = 0.2 %
Manning's n-value = 0.013
Velocity = 3.76 ft/s
Flow length = 960.0 ft

Travel Time = 4.3 min

Total Travel Time, Tc = 11.8 min

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Return period (yrs)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description
1	SCS Runoff	0.13	3	33	269	2	----	-----	-----	OFF 2YR 1HR
2	SCS Runoff	0.13	3	60	456	2	----	-----	-----	OFF 2YR 2HR
3	SCS Runoff	0.11	3	90	581	2	----	-----	-----	OFF 2YR 3HR
4	SCS Runoff	0.08	3	162	842	2	----	-----	-----	OFF 2YR 6HR
5	SCS Runoff	0.06	3	324	1,251	2	----	-----	-----	OFF 2YR 12HR
6	SCS Runoff	0.04	3	648	1,503	2	----	-----	-----	OFF 2YR 24HR
7	SCS Runoff	0.44	3	33	824	10	----	-----	-----	OFF 10YR 1HR
8	SCS Runoff	0.36	3	57	1,251	10	----	-----	-----	OFF 10YR 2HR
9	SCS Runoff	0.29	3	84	1,503	10	----	-----	-----	OFF 10YR 3HR
10	SCS Runoff	0.20	3	162	2,037	10	----	-----	-----	OFF 10YR 6HR
11	SCS Runoff	0.13	3	324	2,602	10	----	-----	-----	OFF 10YR 12HR
12	SCS Runoff	0.08	3	648	3,193	10	----	-----	-----	OFF 10YR 24HR
13	SCS Runoff	0.96	3	30	1,765	100	----	-----	-----	OFF 100YR 1HR
14	SCS Runoff	0.71	3	57	2,482	100	----	-----	-----	OFF 100YR 2HR
15	SCS Runoff	0.56	3	81	2,932	100	----	-----	-----	OFF 100YR 3HR
16	SCS Runoff	0.36	3	162	3,724	100	----	-----	-----	OFF 100YR 6HR
17	SCS Runoff	0.22	3	324	4,584	100	----	-----	-----	OFF 100YR 12HR
18	SCS Runoff	0.14	3	648	5,708	100	----	-----	-----	OFF 100YR 24HR
20	SCS Runoff	3.63	3	36	7,403	2	----	-----	-----	2YR 1HR
21	SCS Runoff	2.86	3	60	10,324	2	----	-----	-----	2YR 2HR
22	SCS Runoff	2.27	3	84	12,134	2	----	-----	-----	2YR 3HR
23	SCS Runoff	1.49	3	162	15,644	2	----	-----	-----	2YR 6HR
24	SCS Runoff	0.98	3	324	20,742	2	----	-----	-----	2YR 12HR
25	SCS Runoff	0.56	3	648	23,725	2	----	-----	-----	2YR 24HR
26	SCS Runoff	7.74	3	33	15,406	10	----	-----	-----	10YR 1HR
27	SCS Runoff	5.62	3	57	20,742	10	----	-----	-----	10YR 2HR
28	SCS Runoff	4.32	3	81	23,725	10	----	-----	-----	10YR 3HR
29	SCS Runoff	2.72	3	162	29,799	10	----	-----	-----	10YR 6HR
30	SCS Runoff	1.69	3	219	35,977	10	----	-----	-----	10YR 12HR
31	SCS Runoff	1.02	3	432	42,229	10	----	-----	-----	10YR 24HR
Proj. file: PR 03.30.11.GPW				IDF file: Central IN.IDF				Run date: 03-30-2011		

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Return period (yrs)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description
32	SCS Runoff	13.43	3	33	26,747	100	----	-----	-----	100YR 1HR
33	SCS Runoff	9.30	3	54	34,683	100	----	-----	-----	100YR 2HR
34	SCS Runoff	7.14	3	66	39,486	100	----	-----	-----	100YR 3HR
35	SCS Runoff	4.48	3	111	47,744	100	----	-----	-----	100YR 6HR
36	SCS Runoff	2.73	3	216	56,473	100	----	-----	-----	100YR 12HR
37	SCS Runoff	1.65	3	432	67,660	100	----	-----	-----	100YR 24HR
39	Combine	3.76	3	36	7,672	2	1 + 20	-----	-----	2YR 1HR
40	Combine	2.99	3	60	10,780	2	2 + 21	-----	-----	2YR 2HR
41	Combine	2.38	3	84	12,715	2	3 + 22	-----	-----	2YR 3HR
42	Combine	1.57	3	162	16,486	2	4 + 23	-----	-----	2YR 6HR
43	Combine	1.05	3	324	21,993	2	5 + 24	-----	-----	2YR 12HR
44	Combine	0.60	3	648	25,228	2	6 + 25	-----	-----	2YR 24HR
45	Combine	8.18	3	33	16,230	10	7 + 26	-----	-----	10YR 1HR
46	Combine	5.98	3	57	21,993	10	8 + 27	-----	-----	10YR 2HR
47	Combine	4.61	3	81	25,228	10	9 + 28	-----	-----	10YR 3HR
48	Combine	2.92	3	162	31,836	10	10 + 29	-----	-----	10YR 6HR
49	Combine	1.80	3	219	38,580	10	11 + 30	-----	-----	10YR 12HR
50	Combine	1.09	3	432	45,422	10	12 + 31	-----	-----	10YR 24HR
51	Combine	14.36	3	33	28,512	100	13 + 32	-----	-----	100YR 1HR
52	Combine	10.00	3	54	37,166	100	14 + 33	-----	-----	100YR 2HR
53	Combine	7.64	3	66	42,418	100	15 + 34	-----	-----	100YR 3HR
54	Combine	4.79	3	111	51,469	100	16 + 35	-----	-----	100YR 6HR
55	Combine	2.93	3	216	61,056	100	17 + 36	-----	-----	100YR 12HR
56	Combine	1.78	3	432	73,368	100	18 + 37	-----	-----	100YR 24HR
58	Reservoir	0.09	3	78	7,059	2	39	744.81	7,462	2YR 1HR
59	Reservoir	0.10	3	135	10,059	2	40	745.10	10,323	2YR 2HR
60	Reservoir	0.11	3	195	11,925	2	41	745.25	11,998	2YR 3HR
61	Reservoir	0.12	3	372	15,546	2	42	745.51	14,905	2YR 6HR
62	Reservoir	0.13	3	729	20,604	2	43	745.82	18,415	2YR 12HR
63	Reservoir	0.13	3	1446	22,841	2	44	745.77	17,913	2YR 24HR
Proj. file: PR 03.30.11.GPW				IDF file: Central IN.IDF				Run date: 03-30-2011		

Hydrograph Report

Page 1

English

Hyd. No. 20

2YR 1HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 1.25 in
Storm duration = 1 hrs

Peak discharge = 3.63 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 7,403 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.25	0.09
0.75	2.75
1.25	0.22

...End

Hydrograph Report

Page 1

English

Hyd. No. 21

2YR 2HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 1.52 in
Storm duration = 2 hrs

Peak discharge = 2.86 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 10,324 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.40	0.04
0.90	2.75
1.40	1.64
1.90	1.15

...End

Hydrograph Report

Page 1

English

Hyd. No. 22

2YR 3HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 1.68 in
Storm duration = 3 hrs

Peak discharge = 2.27 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 12,134 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.55	0.03
1.05	1.89
1.55	2.13
2.05	1.23
2.55	1.05
3.05	0.67

...End

Hydrograph Report

Page 1

English

Hyd. No. 23

2YR 6HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 1.98 in
Storm duration = 6 hrs

Peak discharge = 1.49 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 15,644 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

1.00	0.04
1.50	0.68
2.00	1.32
2.50	1.43
3.00	1.34
3.50	0.84
4.00	0.76
4.50	0.72
5.00	0.61
5.50	0.53
6.00	0.46

...End

Hydrograph Report

Page 1

English

Hyd. No. 24

2YR 12HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 2.40 in
Storm duration = 12 hrs

Peak discharge = 0.98 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 20,742 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

1.65	0.02
2.15	0.22
2.65	0.45
3.15	0.69
3.65	0.93
4.15	0.93
4.65	0.93
5.15	0.96
5.65	0.87
6.15	0.73
6.65	0.58
7.15	0.52
7.65	0.48
8.15	0.48
8.65	0.46
9.15	0.46
9.65	0.46
10.15	0.35
10.65	0.35
11.15	0.27
11.65	0.28
12.15	0.14

...End

Hydrograph Report

Page 1

English

Hyd. No. 25

2YR 24HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 2.64 in
Storm duration = 24 hrs

Peak discharge = 0.56 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 23,725 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)	Time -- Outflow (hrs cfs)
2.90 0.01	18.90 0.26
3.40 0.04	19.40 0.22
3.90 0.11	19.90 0.20
4.40 0.18	20.40 0.20
4.90 0.23	20.90 0.20
5.40 0.30	21.40 0.20
5.90 0.34	21.90 0.15
6.40 0.48	22.40 0.15
6.90 0.53	22.90 0.15
7.40 0.52	23.40 0.16
7.90 0.52	23.90 0.16
8.40 0.54	
8.90 0.52	
9.40 0.54	...End
9.90 0.54	
10.40 0.55	
10.90 0.54	
11.40 0.48	
11.90 0.49	
12.40 0.33	
12.90 0.33	
13.40 0.30	
13.90 0.29	
14.40 0.29	
14.90 0.27	
15.40 0.27	
15.90 0.27	
16.40 0.27	
16.90 0.26	
17.40 0.25	
17.90 0.25	
18.40 0.26	

Hydrograph Report

Page 1

English

Hyd. No. 26

10YR 1HR

Hydrograph type	=	SCS Runoff	Peak discharge	=	7.74 cfs
Storm frequency	=	10 yrs	Time interval	=	3 min
Drainage area	=	3.76 ac	Curve number	=	91
Basin Slope	=	1.0 %	Hydraulic length	=	1080 ft
Tc method	=	USER	Time of conc. (Tc)	=	11.8 min
Total precip.	=	1.96 in	Distribution	=	Huff
Storm duration	=	1 hrs	Shape factor	=	484

Total Volume = 15,406 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

0.20	0.14
0.70	5.88
1.20	0.83

...End

Hydrograph Report

Page 1

English

Hyd. No. 27

10YR 2HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 2.40 in
Storm duration = 2 hrs

Peak discharge = 5.62 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 20,742 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.35	0.15
0.85	5.51
1.35	3.06
1.85	2.18

...End

Hydrograph Report

Page 1

English

Hyd. No. 28

10YR 3HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 2.64 in
Storm duration = 3 hrs

Peak discharge = 4.32 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 23,725 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

0.45	0.07
0.95	3.64
1.45	4.25
1.95	2.27
2.45	2.04
2.95	1.29

...End

Hydrograph Report

Page 1

English

Hyd. No. 29

10YR 6HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 3.12 in
Storm duration = 6 hrs

Peak discharge = 2.72 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 29,799 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

0.75	0.05
1.25	1.12
1.75	2.50
2.25	2.66
2.75	2.70
3.25	1.73
3.75	1.37
4.25	1.29
4.75	1.27
5.25	0.95
5.75	0.74
6.25	0.12

...End

Hydrograph Report

Page 1

English

Hyd. No. 30

10YR 12HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 3.60 in
Storm duration = 12 hrs

Peak discharge = 1.69 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 35,977 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

1.25	0.03
1.75	0.24
2.25	0.69
2.75	1.05
3.25	1.51
3.75	1.64
4.25	1.64
4.75	1.59
5.25	1.62
5.75	1.41
6.25	1.02
6.75	0.90
7.25	0.83
7.75	0.78
8.25	0.76
8.75	0.72
9.25	0.74
9.75	0.65
10.25	0.56
10.75	0.56
11.25	0.43
11.75	0.45
12.25	0.07

...End

Hydrograph Report

Page 1

English

Hyd. No. 31

10YR 24HR

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 4.08 in
Storm duration = 24 hrs

Peak discharge = 1.02 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 42,229 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)	Time -- Outflow (hrs cfs)
2.15 0.01	18.15 0.42
2.65 0.08	18.65 0.43
3.15 0.15	19.15 0.43
3.65 0.21	19.65 0.32
4.15 0.41	20.15 0.32
4.65 0.49	20.65 0.32
5.15 0.62	21.15 0.32
5.65 0.68	21.65 0.31
6.15 0.82	22.15 0.25
6.65 0.97	22.65 0.25
7.15 1.01	23.15 0.26
7.65 0.93	23.65 0.26
8.15 0.96	24.15 0.13
8.65 0.92	
9.15 0.92	
9.65 0.93	...End
10.15 0.93	
10.65 0.94	
11.15 0.81	
11.65 0.82	
12.15 0.68	
12.65 0.55	
13.15 0.55	
13.65 0.48	
14.15 0.48	
14.65 0.45	
15.15 0.45	
15.65 0.45	
16.15 0.44	
16.65 0.44	
17.15 0.41	
17.65 0.41	

Hydrograph Report

Page 1

English

Hyd. No. 32

100YR 1HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 2.88 in
Storm duration = 1 hrs

Peak discharge = 13.43 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 26,747 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

0.20	0.58
0.70	9.63
1.20	1.30

...End

Hydrograph Report

Page 1

English

Hyd. No. 33

100YR 2HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 3.50 in
Storm duration = 2 hrs

Peak discharge = 9.30 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 34,683 cuft

Hydrograph Discharge Table

Time -- Outflow
(hrs cfs)

0.30	0.26
0.80	9.19
1.30	5.11
1.80	3.57
2.30	0.13

...End

Hydrograph Report

Page 1

English

Hyd. No. 34

100YR 3HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 3.87 in
Storm duration = 3 hrs

Peak discharge = 7.14 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 39,486 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

0.35	0.09
0.85	5.28
1.35	7.00
1.85	3.76
2.35	3.18
2.85	2.14

...End

Hydrograph Report

Page 1

English

Hyd. No. 35

100YR 6HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 4.50 in
Storm duration = 6 hrs

Peak discharge = 4.48 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 47,744 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

0.60	0.09
1.10	1.64
1.60	3.47
2.10	4.30
2.60	4.19
3.10	3.35
3.60	2.16
4.10	1.96
4.60	1.86
5.10	1.44
5.60	1.19
6.10	0.86

...End

Hydrograph Report

Page 1

English

Hyd. No. 36

100YR 12HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 5.16 in
Storm duration = 12 hrs

Peak discharge = 2.73 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 56,473 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)

0.95	0.03
1.45	0.40
1.95	0.90
2.45	1.50
2.95	1.94
3.45	2.67
3.95	2.51
4.45	2.44
4.95	2.45
5.45	2.44
5.95	2.12
6.45	1.42
6.95	1.24
7.45	1.17
7.95	1.14
8.45	1.12
8.95	1.07
9.45	1.10
9.95	0.82
10.45	0.82
10.95	0.73
11.45	0.64
11.95	0.67

...End

Hydrograph Report

Page 1

English

Hyd. No. 37

100YR 24HR

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 3.76 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 6.00 in
Storm duration = 24 hrs

Peak discharge = 1.65 cfs
Time interval = 3 min
Curve number = 91
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 67,660 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)	Time -- Outflow (hrs cfs)
1.60 0.02	17.60 0.63
2.10 0.13	18.10 0.63
2.60 0.25	18.60 0.65
3.10 0.36	19.10 0.65
3.60 0.44	19.60 0.48
4.10 0.81	20.10 0.48
4.60 0.92	20.60 0.48
5.10 1.10	21.10 0.48
5.60 1.17	21.60 0.48
6.10 1.31	22.10 0.37
6.60 1.60	22.60 0.37
7.10 1.65	23.10 0.39
7.60 1.49	23.60 0.39
8.10 1.52	24.10 0.29
8.60 1.46	
9.10 1.44	
9.60 1.45	...End
10.10 1.45	
10.60 1.45	
11.10 1.26	
11.60 1.25	
12.10 1.15	
12.60 0.84	
13.10 0.84	
13.60 0.73	
14.10 0.73	
14.60 0.69	
15.10 0.68	
15.60 0.68	
16.10 0.66	
16.60 0.66	
17.10 0.63	

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Return period (yrs)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description
32	SCS Runoff	13.43	3	33	26,747	100	----	-----	-----	100YR 1HR
33	SCS Runoff	9.30	3	54	34,683	100	----	-----	-----	100YR 2HR
34	SCS Runoff	7.14	3	66	39,486	100	----	-----	-----	100YR 3HR
35	SCS Runoff	4.48	3	111	47,744	100	----	-----	-----	100YR 6HR
36	SCS Runoff	2.73	3	216	56,473	100	----	-----	-----	100YR 12HR
37	SCS Runoff	1.65	3	432	67,660	100	----	-----	-----	100YR 24HR
39	Combine	3.76	3	36	7,672	2	1 + 20	-----	-----	2YR 1HR
40	Combine	2.99	3	60	10,780	2	2 + 21	-----	-----	2YR 2HR
41	Combine	2.38	3	84	12,715	2	3 + 22	-----	-----	2YR 3HR
42	Combine	1.57	3	162	16,486	2	4 + 23	-----	-----	2YR 6HR
43	Combine	1.05	3	324	21,993	2	5 + 24	-----	-----	2YR 12HR
44	Combine	0.60	3	648	25,228	2	6 + 25	-----	-----	2YR 24HR
45	Combine	8.18	3	33	16,230	10	7 + 26	-----	-----	10YR 1HR
46	Combine	5.98	3	57	21,993	10	8 + 27	-----	-----	10YR 2HR
47	Combine	4.61	3	81	25,228	10	9 + 28	-----	-----	10YR 3HR
48	Combine	2.92	3	162	31,836	10	10 + 29	-----	-----	10YR 6HR
49	Combine	1.80	3	219	38,580	10	11 + 30	-----	-----	10YR 12HR
50	Combine	1.09	3	432	45,422	10	12 + 31	-----	-----	10YR 24HR
51	Combine	14.36	3	33	28,512	100	13 + 32	-----	-----	100YR 1HR
52	Combine	10.00	3	54	37,166	100	14 + 33	-----	-----	100YR 2HR
53	Combine	7.64	3	66	42,418	100	15 + 34	-----	-----	100YR 3HR
54	Combine	4.79	3	111	51,469	100	16 + 35	-----	-----	100YR 6HR
55	Combine	2.93	3	216	61,056	100	17 + 36	-----	-----	100YR 12HR
56	Combine	1.78	3	432	73,368	100	18 + 37	-----	-----	100YR 24HR
58	Reservoir	0.09	3	78	7,059	2	39	744.81	7,462	2YR 1HR
59	Reservoir	0.10	3	135	10,059	2	40	745.10	10,323	2YR 2HR
60	Reservoir	0.11	3	195	11,925	2	41	745.25	11,998	2YR 3HR
61	Reservoir	0.12	3	372	15,546	2	42	745.51	14,905	2YR 6HR
62	Reservoir	0.13	3	729	20,604	2	43	745.82	18,415	2YR 12HR
63	Reservoir	0.13	3	1446	22,841	2	44	745.77	17,913	2YR 24HR
Proj. file: PR 03.30.11.GPW				IDF file: Central IN.IDF				Run date: 03-30-2011		

Hydrograph Report

Hyd. No. 39

2YR 1HR

Hydrograph type = Combine
Storm frequency = 2 yrs
1st inflow hyd. No. = 1

Peak discharge = 3.76 cfs
Time interval = 3 min
2nd inflow hyd. No. = 20

Total Volume = 7,672 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
0.50	0.11		3.25		3.36
1.00	0.09		1.91		2.00
...End					

Hydrograph Report

Hyd. No. 40

2YR 2HR

Hydrograph type = Combine
Storm frequency = 2 yrs
1st inflow hyd. No. = 2

Peak discharge = 2.99 cfs
Time interval = 3 min
2nd inflow hyd. No. = 21

Total Volume = 10,780 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
0.50	0.00		0.35		0.35
1.00	0.13 <<		2.86 <<		2.99 <<
1.50	0.09		1.58		1.67
2.00	0.06		1.03		1.09

...End

Hydrograph Report

Page 1

English

Hyd. No. 41

2YR 3HR

Hydrograph type = Combine
Storm frequency = 2 yrs
1st inflow hyd. No. = 3

Peak discharge = 2.38 cfs
Time interval = 3 min
2nd inflow hyd. No. = 22

Total Volume = 12,715 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
1.00	0.04		1.75		1.79
1.50	0.11 <<		2.22		2.33
2.00	0.08		1.25		1.32
2.50	0.07		1.13		1.20
3.00	0.05		0.74		0.79

...End

Hydrograph Report

Page 1

English

Hyd. No. 42

2YR 6HR

Hydrograph type = Combine
Storm frequency = 2 yrs
1st inflow hyd. No. = 4

Peak discharge = 1.57 cfs
Time interval = 3 min
2nd inflow hyd. No. = 23

Total Volume = 16,486 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
1.00	0.00		0.04		0.04
1.50	0.00		0.68		0.68
2.00	0.05		1.32		1.37
2.50	0.08		1.43		1.51
3.00	0.08		1.34		1.42
3.50	0.05		0.84		0.89
4.00	0.05		0.76		0.81
4.50	0.05		0.72		0.77
5.00	0.04		0.61		0.65
5.50	0.04		0.53		0.57
6.00	0.04		0.46		0.49

...End

Hydrograph Report

Page 1

English

Hyd. No. 43

2YR 12HR

Hydrograph type = Combine
Storm frequency = 2 yrs
1st inflow hyd. No. = 5

Peak discharge = 1.05 cfs
Time interval = 3 min
2nd inflow hyd. No. = 24

Total Volume = 21,993 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
2.00	0.00		0.14		0.14
2.50	0.00		0.37		0.37
3.00	0.01		0.57		0.58
3.50	0.03		0.89		0.92
4.00	0.04		0.90		0.95
4.50	0.05		0.91		0.96
5.00	0.06		0.95		1.01
5.50	0.06		0.95		1.01
6.00	0.06		0.87		0.93
6.50	0.04		0.59		0.63
7.00	0.04		0.52		0.55
7.50	0.04		0.48		0.52
8.00	0.04		0.48		0.51
8.50	0.04		0.47		0.51
9.00	0.04		0.45		0.49
9.50	0.04		0.47		0.51
10.00	0.03		0.35		0.38
10.50	0.03		0.35		0.38
11.00	0.02		0.30		0.32
11.50	0.02		0.28		0.30
12.00	0.02		0.29		0.31

...End

Hydrograph Report

Page 1

English

Hyd. No. 44

2YR 24HR

Hydrograph type = Combine
Storm frequency = 2 yrs
1st inflow hyd. No. = 6

Peak discharge = 0.60 cfs
Time interval = 3 min
2nd inflow hyd. No. = 25

Total Volume = 25,228 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
3.00	0.00		0.01		0.01
3.50	0.00		0.05		0.05
4.00	0.00		0.13		0.13
4.50	0.00		0.19		0.19
5.00	0.00		0.26		0.26
5.50	0.01		0.31		0.32
6.00	0.01		0.35		0.36
6.50	0.02		0.49		0.51
7.00	0.02		0.53		0.56
7.50	0.02		0.51		0.53
8.00	0.03		0.53		0.56
8.50	0.03		0.54		0.57
9.00	0.03		0.52		0.56
9.50	0.03		0.54		0.57
10.00	0.04		0.54		0.58
10.50	0.04		0.55		0.59
11.00	0.03		0.50		0.54
11.50	0.03		0.48		0.52
12.00	0.04		0.49		0.53
12.50	0.02		0.33		0.35
13.00	0.02		0.33		0.36
13.50	0.02		0.29		0.31
14.00	0.02		0.29		0.31
14.50	0.02		0.29		0.31
15.00	0.02		0.27		0.29
15.50	0.02		0.27		0.29
16.00	0.02		0.27		0.29
16.50	0.02		0.27		0.29
17.00	0.02		0.26		0.28
17.50	0.02		0.25		0.27
18.00	0.02		0.25		0.28
18.50	0.02		0.26		0.28
19.00	0.02		0.26		0.29
19.50	0.02		0.20		0.22
20.00	0.02		0.20		0.21
20.50	0.02		0.20		0.21

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
21.00	0.02		0.20		0.21
21.50	0.02		0.20		0.21
22.00	0.01		0.15		0.17
22.50	0.01		0.15		0.17
23.00	0.01		0.16		0.17
23.50	0.01		0.16		0.17
24.00	0.01		0.16		0.17

...End

Hydrograph Report

Hyd. No. 45

10YR 1HR

Hydrograph type = Combine
Storm frequency = 10 yrs
1st inflow hyd. No. = 7

Peak discharge = 8.18 cfs
Time interval = 3 min
2nd inflow hyd. No. = 26

Total Volume = 16,230 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
0.50	0.43		7.36		7.79
1.00	0.22		3.45		3.67
...End					

Hydrograph Report

Page 1

English

Hyd. No. 46

10YR 2HR

Hydrograph type = Combine
Storm frequency = 10 yrs
1st inflow hyd. No. = 8

Peak discharge = 5.98 cfs
Time interval = 3 min
2nd inflow hyd. No. = 27

Total Volume = 21,993 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
0.50	0.01		1.53		1.55
1.00	0.36		5.58		5.94
1.50	0.22		2.85		3.06
2.00	0.14		1.80		1.94

...End

Hydrograph Report

Page 1

English

Hyd. No. 47

10YR 3HR

Hydrograph type = Combine
Storm frequency = 10 yrs
1st inflow hyd. No. = 9

Peak discharge = 4.61 cfs
Time interval = 3 min
2nd inflow hyd. No. = 28

Total Volume = 25,228 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
0.50	0.00		0.20		0.20
1.00	0.20		3.91		4.11
1.50	0.28		4.13		4.42
2.00	0.17		2.22		2.39
2.50	0.15		1.96		2.11
3.00	0.11		1.27		1.38

...End

Hydrograph Report

Page 1

English

Hyd. No. 48

10YR 6HR

Hydrograph type = Combine
Storm frequency = 10 yrs
1st inflow hyd. No. = 10

Peak discharge = 2.92 cfs
Time interval = 3 min
2nd inflow hyd. No. = 29

Total Volume = 31,836 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
1.00	0.00		0.43		0.43
1.50	0.06		1.69		1.75
2.00	0.15		2.66		2.82
2.50	0.19		2.67		2.86
3.00	0.19		2.40		2.59
3.50	0.12		1.48		1.59
4.00	0.11		1.32		1.43
4.50	0.11		1.23		1.34
5.00	0.08		1.05		1.13
5.50	0.07		0.90		0.97
6.00	0.07		0.77		0.84

...End

Hydrograph Report

Page 1

English

Hyd. No. 49

10YR 12HR

Hydrograph type = Combine
Storm frequency = 10 yrs
1st inflow hyd. No. = 11

Peak discharge = 1.80 cfs
Time interval = 3 min
2nd inflow hyd. No. = 30

Total Volume = 38,580 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
1.50	0.00		0.14		0.14
2.00	0.00		0.48		0.48
2.50	0.02		0.85		0.88
3.00	0.05		1.15		1.20
3.50	0.10		1.66		1.76
4.00	0.11		1.60		1.71
4.50	0.11		1.57		1.69
5.00	0.12		1.60		1.73
5.50	0.12		1.58		1.70
6.00	0.12		1.42		1.53
6.50	0.08		0.95		1.04
7.00	0.07		0.84		0.91
7.50	0.07		0.78		0.85
8.00	0.07		0.77		0.83
8.50	0.07		0.75		0.82
9.00	0.07		0.72		0.79
9.50	0.07		0.75		0.82
10.00	0.05		0.56		0.61
10.50	0.05		0.56		0.61
11.00	0.04		0.47		0.51
11.50	0.04		0.44		0.48
12.00	0.04		0.45		0.50

...End

Hydrograph Report

Page 1

English

Hyd. No. 50

10YR 24HR

Hydrograph type = Combine
Storm frequency = 10 yrs
1st inflow hyd. No. = 12

Peak discharge = 1.09 cfs
Time interval = 3 min
2nd inflow hyd. No. = 31

Total Volume = 45,422 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
2.50	0.00		0.06		0.06
3.00	0.00		0.13		0.13
3.50	0.00		0.19		0.19
4.00	0.00		0.38		0.39
4.50	0.01		0.47		0.48
5.00	0.02		0.58		0.60
5.50	0.03		0.66		0.69
6.00	0.04		0.71		0.75
6.50	0.06		0.95		1.01
7.00	0.06		1.00		1.07
7.50	0.06		0.93		0.99
8.00	0.07		0.95		1.02
8.50	0.07		0.95		1.02
9.00	0.07		0.92		0.99
9.50	0.07		0.93		1.01
10.00	0.08		0.93		1.01
10.50	0.08		0.94		1.02
11.00	0.07		0.85		0.92
11.50	0.07		0.81		0.88
12.00	0.07		0.82		0.89
12.50	0.05		0.55		0.60
13.00	0.05		0.55		0.60
13.50	0.04		0.48		0.53
14.00	0.04		0.48		0.52
14.50	0.04		0.47		0.51
15.00	0.04		0.45		0.49
15.50	0.04		0.45		0.49
16.00	0.04		0.44		0.48
16.50	0.04		0.44		0.48
17.00	0.04		0.42		0.46
17.50	0.04		0.41		0.45
18.00	0.04		0.42		0.45
18.50	0.04		0.43		0.47
19.00	0.04		0.43		0.47
19.50	0.03		0.32		0.35
20.00	0.03		0.32		0.35

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
20.50	0.03		0.32		0.35
21.00	0.03		0.32		0.35
21.50	0.03		0.32		0.35
22.00	0.02		0.25		0.27
22.50	0.02		0.25		0.27
23.00	0.02		0.26		0.28
23.50	0.02		0.26		0.28
24.00	0.02		0.26		0.28

...End

Hydrograph Report

Hyd. No. 51

100YR 1HR

Hydrograph type	=	Combine	Peak discharge	=	14.36 cfs
Storm frequency	=	100 yrs	Time interval	=	3 min
1st inflow hyd. No.	=	13	2nd inflow hyd. No.	=	32

Total Volume = 28,512 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
0.50	0.96 <<		13.22		14.18
1.00	0.40		5.45		5.85
...End					

Hydrograph Report

Hyd. No. 52

100YR 2HR

Hydrograph type = Combine
Storm frequency = 100 yrs
1st inflow hyd. No. = 14

Peak discharge = 10.00 cfs
Time interval = 3 min
2nd inflow hyd. No. = 33

Total Volume = 37,166 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
0.50	0.14		3.62		3.76
1.00	0.69		9.04		9.73
1.50	0.38		4.42		4.80
2.00	0.24		2.76		3.00

...End

Hydrograph Report

Page 1

English

Hyd. No. 53

100YR 3HR

Hydrograph type = Combine
Storm frequency = 100 yrs
1st inflow hyd. No. = 15

Peak discharge = 7.64 cfs
Time interval = 3 min
2nd inflow hyd. No. = 34

Total Volume = 42,418 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
0.50	0.00		0.87		0.87
1.00	0.46		6.91		7.37
1.50	0.52		6.59		7.12
2.00	0.30		3.45		3.75
2.50	0.25		3.02		3.27
3.00	0.18		1.94		2.12

...End

Hydrograph Report

Page 1

English

Hyd. No. 54

100YR 6HR

Hydrograph type = Combine
Storm frequency = 100 yrs
1st inflow hyd. No. = 16

Peak discharge = 4.79 cfs
Time interval = 3 min
2nd inflow hyd. No. = 35

Total Volume = 51,469 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
1.00	0.01		1.11		1.12
1.50	0.17		3.07		3.24
2.00	0.31		4.34		4.65
2.50	0.35		4.17		4.52
3.00	0.32		3.67		4.00
3.50	0.20		2.24		2.43
4.00	0.18		1.98		2.17
4.50	0.17		1.85		2.03
5.00	0.14		1.57		1.70
5.50	0.12		1.34		1.46
6.00	0.11		1.15		1.26

...End

Hydrograph Report

Page 1

English

Hyd. No. 55

100YR 12HR

Hydrograph type = Combine
Storm frequency = 100 yrs
1st inflow hyd. No. = 17

Peak discharge = 2.93 cfs
Time interval = 3 min
2nd inflow hyd. No. = 36

Total Volume = 61,056 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
1.00	0.00		0.06		0.06
1.50	0.00		0.43		0.43
2.00	0.03		1.02		1.05
2.50	0.08		1.56		1.64
3.00	0.12		1.96		2.08
3.50	0.19		2.69		2.88
4.00	0.20		2.52		2.72
4.50	0.20		2.43		2.63
5.00	0.21		2.44		2.66
5.50	0.20		2.38		2.58
6.00	0.20		2.13		2.32
6.50	0.13		1.43		1.56
7.00	0.12		1.24		1.36
7.50	0.11		1.16		1.27
8.00	0.11		1.14		1.24
8.50	0.11		1.11		1.22
9.00	0.10		1.07		1.17
9.50	0.11		1.10		1.21
10.00	0.08		0.82		0.90
10.50	0.08		0.82		0.90
11.00	0.06		0.69		0.75
11.50	0.06		0.64		0.71
12.00	0.07		0.67		0.73

...End

Hydrograph Report

Page 1

English

Hyd. No. 56

100YR 24HR

Hydrograph type = Combine
Storm frequency = 100 yrs
1st inflow hyd. No. = 18

Peak discharge = 1.78 cfs
Time interval = 3 min
2nd inflow hyd. No. = 37

Total Volume = 73,368 cuft

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
2.00	0.00		0.11		0.11
2.50	0.00		0.22		0.22
3.00	0.00		0.34		0.35
3.50	0.01		0.42		0.43
4.00	0.03		0.79		0.82
4.50	0.04		0.90		0.94
5.00	0.06		1.06		1.12
5.50	0.07		1.16		1.24
6.00	0.08		1.22		1.30
6.50	0.12		1.59		1.70
7.00	0.13		1.64		1.76
7.50	0.12		1.50		1.62
8.00	0.13		1.51		1.64
8.50	0.13		1.50		1.63
9.00	0.13		1.44		1.57
9.50	0.13		1.45		1.58
10.00	0.13		1.44		1.58
10.50	0.13		1.45		1.59
11.00	0.12		1.31		1.43
11.50	0.12		1.25		1.37
12.00	0.12		1.25		1.37
12.50	0.08		0.84		0.92
13.00	0.08		0.84		0.92
13.50	0.07		0.74		0.81
14.00	0.07		0.73		0.80
14.50	0.07		0.72		0.79
15.00	0.07		0.68		0.74
15.50	0.07		0.68		0.75
16.00	0.07		0.66		0.73
16.50	0.07		0.66		0.73
17.00	0.06		0.64		0.70
17.50	0.06		0.63		0.69
18.00	0.06		0.63		0.69
18.50	0.06		0.65		0.71
19.00	0.06		0.65		0.71
19.50	0.05		0.49		0.54

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	1st Inflow cfs	+	2nd Inflow cfs	=	Outflow cfs
20.00	0.05		0.48		0.53
20.50	0.05		0.48		0.53
21.00	0.05		0.48		0.53
21.50	0.05		0.48		0.53
22.00	0.04		0.37		0.41
22.50	0.04		0.37		0.41
23.00	0.04		0.38		0.42
23.50	0.04		0.39		0.43
24.00	0.04		0.39		0.43

...End

Reservoir Report

Reservoir No. 1 - Pond

Pond Data

Pond storage is based on known contour areas

Stage / Storage Table

Stage ft	Elevation ft	Contour area sqft	Incr. Storage cuft	Total storage cuft
0.00	744.00	8,111	0	0
1.00	745.00	10,216	9,164	9,164
2.00	746.00	12,472	11,344	20,508
3.00	747.00	14,878	13,675	34,183
4.00	748.00	17,429	16,154	50,336
5.00	749.00	20,087	18,758	69,094
6.00	750.00	22,846	21,467	90,561

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise in	= 12.0	2.0	8.0	0.0
Span in	= 12.0	2.0	8.0	0.0
No. Barrels	= 1	1	1	0
Invert El. ft	= 744.00	744.00	746.50	0.00
Length ft	= 331.0	0.5	0.5	0.0
Slope %	= 1.80	0.50	0.50	0.00
N-Value	= .013	.013	.013	.000
Orif. Coeff.	= 0.60	0.60	0.60	0.00
Multi-Stage	= -----	Yes	Yes	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len ft	= 0.0	0.0	0.0	0.0
Crest El. ft	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 0.00	0.00	0.00	0.00
Eqn. Exp.	= 0.00	0.00	0.00	0.00
Multi-Stage	= No	No	No	No

Tailwater Elevation = 0.00 ft

Note: All outflows have been analyzed under inlet and outlet control.

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Discharge cfs
0.00	0	744.00	0.00	0.00	0.00	---	---	---	---	---	0.00
1.00	9,164	745.00	2.67	0.10	0.00	---	---	---	---	---	0.10
2.00	20,508	746.00	4.63	0.14	0.00	---	---	---	---	---	0.14
3.00	34,183	747.00	5.19	0.17	0.09	---	---	---	---	---	0.27
4.00	50,336	748.00	5.50	0.19	1.82	---	---	---	---	---	2.00
5.00	69,094	749.00	5.80	0.21	2.47	---	---	---	---	---	2.68
6.00	90,561	750.00	6.09	0.23	2.99	---	---	---	---	---	3.22

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Return period (yrs)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description
32	SCS Runoff	13.43	3	33	26,747	100	----	-----	-----	100YR 1HR
33	SCS Runoff	9.30	3	54	34,683	100	----	-----	-----	100YR 2HR
34	SCS Runoff	7.14	3	66	39,486	100	----	-----	-----	100YR 3HR
35	SCS Runoff	4.48	3	111	47,744	100	----	-----	-----	100YR 6HR
36	SCS Runoff	2.73	3	216	56,473	100	----	-----	-----	100YR 12HR
37	SCS Runoff	1.65	3	432	67,660	100	----	-----	-----	100YR 24HR
39	Combine	3.76	3	36	7,672	2	1 + 20	-----	-----	2YR 1HR
40	Combine	2.99	3	60	10,780	2	2 + 21	-----	-----	2YR 2HR
41	Combine	2.38	3	84	12,715	2	3 + 22	-----	-----	2YR 3HR
42	Combine	1.57	3	162	16,486	2	4 + 23	-----	-----	2YR 6HR
43	Combine	1.05	3	324	21,993	2	5 + 24	-----	-----	2YR 12HR
44	Combine	0.60	3	648	25,228	2	6 + 25	-----	-----	2YR 24HR
45	Combine	8.18	3	33	16,230	10	7 + 26	-----	-----	10YR 1HR
46	Combine	5.98	3	57	21,993	10	8 + 27	-----	-----	10YR 2HR
47	Combine	4.61	3	81	25,228	10	9 + 28	-----	-----	10YR 3HR
48	Combine	2.92	3	162	31,836	10	10 + 29	-----	-----	10YR 6HR
49	Combine	1.80	3	219	38,580	10	11 + 30	-----	-----	10YR 12HR
50	Combine	1.09	3	432	45,422	10	12 + 31	-----	-----	10YR 24HR
51	Combine	14.36	3	33	28,512	100	13 + 32	-----	-----	100YR 1HR
52	Combine	10.00	3	54	37,166	100	14 + 33	-----	-----	100YR 2HR
53	Combine	7.64	3	66	42,418	100	15 + 34	-----	-----	100YR 3HR
54	Combine	4.79	3	111	51,469	100	16 + 35	-----	-----	100YR 6HR
55	Combine	2.93	3	216	61,056	100	17 + 36	-----	-----	100YR 12HR
56	Combine	1.78	3	432	73,368	100	18 + 37	-----	-----	100YR 24HR
58	Reservoir	0.09	3	78	7,059	2	39	744.81	7,462	2YR 1HR
59	Reservoir	0.10	3	135	10,059	2	40	745.10	10,323	2YR 2HR
60	Reservoir	0.11	3	195	11,925	2	41	745.25	11,998	2YR 3HR
61	Reservoir	0.12	3	372	15,546	2	42	745.51	14,905	2YR 6HR
62	Reservoir	0.13	3	729	20,604	2	43	745.82	18,415	2YR 12HR
63	Reservoir	0.13	3	1446	22,841	2	44	745.77	17,913	2YR 24HR
Proj. file: PR 03.30.11.GPW				IDF file: Central IN.IDF				Run date: 03-30-2011		

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Return period (yrs)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description
64	Reservoir	0.13	3	78	15,334	10	45	745.59	15,889	10YR 1HR
65	Reservoir	0.14	3	138	20,800	10	46	746.06	21,291	10YR 2HR
66	Reservoir	0.15	3	195	23,708	10	47	746.27	24,151	10YR 3HR
67	Reservoir	0.19	3	372	28,891	10	48	746.66	29,490	10YR 6HR
68	Reservoir	0.25	3	729	33,321	10	49	746.92	33,094	10YR 12HR
69	Reservoir	0.25	3	1443	36,451	10	50	746.94	33,400	10YR 24HR
70	Reservoir	0.17	3	78	26,589	100	51	746.55	28,042	100YR 1HR
71	Reservoir	0.33	3	135	33,511	100	52	747.11	36,020	100YR 2HR
72	Reservoir	1.07	3	189	38,242	100	53	747.32	39,365	100YR 3HR
73	Reservoir	1.34	3	333	46,514	100	54	747.43	41,071	100YR 6HR
74	Reservoir	1.15	3	582	54,678	100	55	747.35	39,867	100YR 12HR
75	Reservoir	0.97	3	735	63,302	100	56	747.29	38,837	100YR 24HR
77	SCS Runoff	0.20	3	648	7,643	2	----	-----	-----	2YR 1HR
78	Reservoir	0.07	3	1443	6,881	2	77	744.50	4,614	WQ Route
Proj. file: PR 03.30.11.GPW				IDF file: Central IN.IDF				Run date: 03-30-2011		

Hydrograph Report

Page 1

English

Hyd. No. 58

2YR 1HR

Hydrograph type = Reservoir
Storm frequency = 2 yrs
Inflow hyd. No. = 39
Max. Elevation = 744.81 ft

Peak discharge = 0.09 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 7,462 cuft

Storage Indication method used.

Total Volume = 7,059 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
0.50	3.36	744.15	0.11	0.02	----	----	----	----	----	----	0.02
1.00	2.00	744.72	1.76	0.08	----	----	----	----	----	----	0.08
1.50	0.00	744.81	2.10	0.09	----	----	----	----	----	----	0.09
2.00	0.00	744.79	2.04	0.09	----	----	----	----	----	----	0.09
2.50	0.00	744.77	1.98	0.08	----	----	----	----	----	----	0.08
3.00	0.00	744.76	1.92	0.08	----	----	----	----	----	----	0.08
3.50	0.00	744.74	1.85	0.08	----	----	----	----	----	----	0.08
4.00	0.00	744.73	1.79	0.08	----	----	----	----	----	----	0.08
4.50	0.00	744.71	1.73	0.08	----	----	----	----	----	----	0.08
5.00	0.00	744.69	1.67	0.08	----	----	----	----	----	----	0.08
5.50	0.00	744.68	1.62	0.08	----	----	----	----	----	----	0.08
6.00	0.00	744.66	1.56	0.08	----	----	----	----	----	----	0.08
6.50	0.00	744.65	1.51	0.08	----	----	----	----	----	----	0.08
7.00	0.00	744.63	1.46	0.08	----	----	----	----	----	----	0.08
7.50	0.00	744.62	1.41	0.07	----	----	----	----	----	----	0.07
8.00	0.00	744.60	1.35	0.07	----	----	----	----	----	----	0.07
8.50	0.00	744.59	1.30	0.07	----	----	----	----	----	----	0.07
9.00	0.00	744.58	1.24	0.07	----	----	----	----	----	----	0.07
9.50	0.00	744.56	1.19	0.07	----	----	----	----	----	----	0.07
10.00	0.00	744.55	1.13	0.07	----	----	----	----	----	----	0.07
10.50	0.00	744.53	1.08	0.07	----	----	----	----	----	----	0.07
11.00	0.00	744.52	1.03	0.07	----	----	----	----	----	----	0.07
11.50	0.00	744.51	0.97	0.07	----	----	----	----	----	----	0.07
12.00	0.00	744.49	0.93	0.07	----	----	----	----	----	----	0.07
12.50	0.00	744.48	0.89	0.06	----	----	----	----	----	----	0.06
13.00	0.00	744.47	0.85	0.06	----	----	----	----	----	----	0.06
13.50	0.00	744.46	0.81	0.06	----	----	----	----	----	----	0.06
14.00	0.00	744.44	0.78	0.06	----	----	----	----	----	----	0.06
14.50	0.00	744.43	0.74	0.06	----	----	----	----	----	----	0.06
15.00	0.00	744.42	0.70	0.06	----	----	----	----	----	----	0.06
15.50	0.00	744.41	0.67	0.06	----	----	----	----	----	----	0.06
16.00	0.00	744.40	0.63	0.06	----	----	----	----	----	----	0.06
16.50	0.00	744.39	0.60	0.06	----	----	----	----	----	----	0.06
17.00	0.00	744.38	0.58	0.06	----	----	----	----	----	----	0.06
17.50	0.00	744.37	0.55	0.05	----	----	----	----	----	----	0.05
18.00	0.00	744.35	0.52	0.05	----	----	----	----	----	----	0.05

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
18.50	0.00	744.34	0.50	0.05	----	----	----	----	----	----	0.05
19.00	0.00	744.33	0.47	0.05	----	----	----	----	----	----	0.05
19.50	0.00	744.32	0.44	0.05	----	----	----	----	----	----	0.05
20.00	0.00	744.31	0.42	0.05	----	----	----	----	----	----	0.05
20.50	0.00	744.30	0.39	0.05	----	----	----	----	----	----	0.05
21.00	0.00	744.29	0.37	0.05	----	----	----	----	----	----	0.05
21.50	0.00	744.29	0.35	0.05	----	----	----	----	----	----	0.05
22.00	0.00	744.28	0.34	0.04	----	----	----	----	----	----	0.04
22.50	0.00	744.27	0.32	0.04	----	----	----	----	----	----	0.04
23.00	0.00	744.26	0.30	0.04	----	----	----	----	----	----	0.04
23.50	0.00	744.25	0.29	0.04	----	----	----	----	----	----	0.04
24.00	0.00	744.25	0.27	0.04	----	----	----	----	----	----	0.04
24.50	0.00	744.24	0.26	0.03	----	----	----	----	----	----	0.03
25.00	0.00	744.23	0.24	0.03	----	----	----	----	----	----	0.03
25.50	0.00	744.23	0.23	0.03	----	----	----	----	----	----	0.03
26.00	0.00	744.22	0.22	0.03	----	----	----	----	----	----	0.03
26.50	0.00	744.21	0.21	0.03	----	----	----	----	----	----	0.03
27.00	0.00	744.21	0.19	0.03	----	----	----	----	----	----	0.03
27.50	0.00	744.20	0.18	0.03	----	----	----	----	----	----	0.03
28.00	0.00	744.20	0.17	0.03	----	----	----	----	----	----	0.03
28.50	0.00	744.19	0.17	0.02	----	----	----	----	----	----	0.02
29.00	0.00	744.19	0.16	0.02	----	----	----	----	----	----	0.02
29.50	0.00	744.18	0.16	0.02	----	----	----	----	----	----	0.02
30.00	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
30.50	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
31.00	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
31.50	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
32.00	0.00	744.16	0.13	0.02	----	----	----	----	----	----	0.02
32.50	0.00	744.16	0.13	0.02	----	----	----	----	----	----	0.02
33.00	0.00	744.16	0.12	0.02	----	----	----	----	----	----	0.02
33.50	0.00	744.15	0.12	0.02	----	----	----	----	----	----	0.02
34.00	0.00	744.15	0.11	0.02	----	----	----	----	----	----	0.02
34.50	0.00	744.15	0.11	0.01	----	----	----	----	----	----	0.01
35.00	0.00	744.15	0.11	0.01	----	----	----	----	----	----	0.01
35.50	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
36.00	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
36.50	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
37.00	0.00	744.14	0.09	0.01	----	----	----	----	----	----	0.01
37.50	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
38.00	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
38.50	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
39.00	0.00	744.13	0.08	0.01	----	----	----	----	----	----	0.01
39.50	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
40.00	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
40.50	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
41.00	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
41.50	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
42.00	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
42.50	0.00	744.11	0.07	0.01	----	----	----	----	----	----	0.01

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
43.00	0.00	744.11	0.07	0.01	----	----	----	----	----	----	0.01
43.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
44.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
44.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
45.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
45.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
46.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
46.50	0.00	744.10	0.05	0.01	----	----	----	----	----	----	0.01
47.00	0.00	744.10	0.05	0.01	----	----	----	----	----	----	0.01
47.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
48.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
48.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
49.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
49.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
50.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
50.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
51.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
51.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
52.00	0.00	744.09	0.05	0.00	----	----	----	----	----	----	0.00
52.50	0.00	744.09	0.05	0.00	----	----	----	----	----	----	0.00
53.00	0.00	744.09	0.05	0.00	----	----	----	----	----	----	0.00
53.50	0.00	744.09	0.05	0.00	----	----	----	----	----	----	0.00
54.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
54.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
55.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
55.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
56.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
56.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
57.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
57.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
58.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
58.50	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
59.00	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
59.50	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
60.00	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
60.50	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
61.00	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
61.50	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
62.00	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
62.50	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
63.00	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
63.50	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
64.00	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
64.50	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
65.00	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
65.50	0.00	744.07	0.04	0.00	----	----	----	----	----	----	0.00
66.00	0.00	744.07	0.04	0.00	----	----	----	----	----	----	0.00
66.50	0.00	744.07	0.04	0.00	----	----	----	----	----	----	0.00
67.00	0.00	744.07	0.04	0.00	----	----	----	----	----	----	0.00

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
67.50	0.00	744.07	0.04	0.00	----	----	----	----	----	----	0.00
68.00	0.00	744.07	0.04	0.00	----	----	----	----	----	----	0.00
68.50	0.00	744.07	0.03	0.00	----	----	----	----	----	----	0.00
69.00	0.00	744.07	0.03	0.00	----	----	----	----	----	----	0.00
69.50	0.00	744.07	0.03	0.00	----	----	----	----	----	----	0.00
70.00	0.00	744.07	0.03	0.00	----	----	----	----	----	----	0.00
70.50	0.00	744.07	0.03	0.00	----	----	----	----	----	----	0.00
71.00	0.00	744.07	0.03	0.00	----	----	----	----	----	----	0.00
71.50	0.00	744.07	0.03	0.00	----	----	----	----	----	----	0.00
72.00	0.00	744.07	0.03	0.00	----	----	----	----	----	----	0.00

...End

Hydrograph Report

Page 1

English

Hyd. No. 59

2YR 2HR

Hydrograph type = Reservoir
Storm frequency = 2 yrs
Inflow hyd. No. = 40
Max. Elevation = 745.10 ft

Peak discharge = 0.10 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 10,323 cuft

Storage Indication method used.

Total Volume = 10,059 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
1.00	2.99 <<	744.40	0.64	0.06	----	----	----	----	----	----	0.06
1.50	1.67	744.81	2.11	0.09	----	----	----	----	----	----	0.09
2.00	1.09	745.06	2.83	0.10	----	----	----	----	----	----	0.10
2.50	0.00	745.10	2.92	0.10	----	----	----	----	----	----	0.10
3.00	0.00	745.08	2.88	0.10	----	----	----	----	----	----	0.10
3.50	0.00	745.06	2.84	0.10	----	----	----	----	----	----	0.10
4.00	0.00	745.05	2.80	0.10	----	----	----	----	----	----	0.10
4.50	0.00	745.03	2.75	0.10	----	----	----	----	----	----	0.10
5.00	0.00	745.02	2.71	0.10	----	----	----	----	----	----	0.10
5.50	0.00	745.00	2.68	0.10	----	----	----	----	----	----	0.10
6.00	0.00	744.98	2.63	0.10	----	----	----	----	----	----	0.10
6.50	0.00	744.96	2.58	0.10	----	----	----	----	----	----	0.10
7.00	0.00	744.94	2.53	0.09	----	----	----	----	----	----	0.09
7.50	0.00	744.93	2.48	0.09	----	----	----	----	----	----	0.09
8.00	0.00	744.91	2.43	0.09	----	----	----	----	----	----	0.09
8.50	0.00	744.89	2.38	0.09	----	----	----	----	----	----	0.09
9.00	0.00	744.87	2.32	0.09	----	----	----	----	----	----	0.09
9.50	0.00	744.85	2.26	0.09	----	----	----	----	----	----	0.09
10.00	0.00	744.84	2.20	0.09	----	----	----	----	----	----	0.09
10.50	0.00	744.82	2.14	0.09	----	----	----	----	----	----	0.09
11.00	0.00	744.80	2.08	0.09	----	----	----	----	----	----	0.09
11.50	0.00	744.78	2.02	0.09	----	----	----	----	----	----	0.09
12.00	0.00	744.77	1.95	0.08	----	----	----	----	----	----	0.08
12.50	0.00	744.75	1.89	0.08	----	----	----	----	----	----	0.08
13.00	0.00	744.74	1.83	0.08	----	----	----	----	----	----	0.08
13.50	0.00	744.72	1.77	0.08	----	----	----	----	----	----	0.08
14.00	0.00	744.70	1.71	0.08	----	----	----	----	----	----	0.08
14.50	0.00	744.69	1.65	0.08	----	----	----	----	----	----	0.08
15.00	0.00	744.67	1.60	0.08	----	----	----	----	----	----	0.08
15.50	0.00	744.66	1.54	0.08	----	----	----	----	----	----	0.08
16.00	0.00	744.64	1.49	0.08	----	----	----	----	----	----	0.08
16.50	0.00	744.63	1.44	0.08	----	----	----	----	----	----	0.08
17.00	0.00	744.61	1.39	0.07	----	----	----	----	----	----	0.07
17.50	0.00	744.60	1.33	0.07	----	----	----	----	----	----	0.07
18.00	0.00	744.58	1.28	0.07	----	----	----	----	----	----	0.07
18.50	0.00	744.57	1.22	0.07	----	----	----	----	----	----	0.07

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
19.00	0.00	744.56	1.17	0.07	----	----	----	----	----	----	0.07
19.50	0.00	744.54	1.11	0.07	----	----	----	----	----	----	0.07
20.00	0.00	744.53	1.06	0.07	----	----	----	----	----	----	0.07
20.50	0.00	744.52	1.01	0.07	----	----	----	----	----	----	0.07
21.00	0.00	744.50	0.96	0.07	----	----	----	----	----	----	0.07
21.50	0.00	744.49	0.91	0.06	----	----	----	----	----	----	0.06
22.00	0.00	744.48	0.87	0.06	----	----	----	----	----	----	0.06
22.50	0.00	744.46	0.84	0.06	----	----	----	----	----	----	0.06
23.00	0.00	744.45	0.80	0.06	----	----	----	----	----	----	0.06
23.50	0.00	744.44	0.76	0.06	----	----	----	----	----	----	0.06
24.00	0.00	744.43	0.72	0.06	----	----	----	----	----	----	0.06
24.50	0.00	744.42	0.69	0.06	----	----	----	----	----	----	0.06
25.00	0.00	744.41	0.65	0.06	----	----	----	----	----	----	0.06
25.50	0.00	744.39	0.62	0.06	----	----	----	----	----	----	0.06
26.00	0.00	744.38	0.59	0.06	----	----	----	----	----	----	0.06
26.50	0.00	744.37	0.57	0.06	----	----	----	----	----	----	0.06
27.00	0.00	744.36	0.54	0.05	----	----	----	----	----	----	0.05
27.50	0.00	744.35	0.51	0.05	----	----	----	----	----	----	0.05
28.00	0.00	744.34	0.49	0.05	----	----	----	----	----	----	0.05
28.50	0.00	744.33	0.46	0.05	----	----	----	----	----	----	0.05
29.00	0.00	744.32	0.43	0.05	----	----	----	----	----	----	0.05
29.50	0.00	744.31	0.41	0.05	----	----	----	----	----	----	0.05
30.00	0.00	744.30	0.39	0.05	----	----	----	----	----	----	0.05
30.50	0.00	744.29	0.37	0.05	----	----	----	----	----	----	0.05
31.00	0.00	744.28	0.35	0.04	----	----	----	----	----	----	0.04
31.50	0.00	744.27	0.33	0.04	----	----	----	----	----	----	0.04
32.00	0.00	744.27	0.31	0.04	----	----	----	----	----	----	0.04
32.50	0.00	744.26	0.30	0.04	----	----	----	----	----	----	0.04
33.00	0.00	744.25	0.28	0.04	----	----	----	----	----	----	0.04
33.50	0.00	744.24	0.27	0.04	----	----	----	----	----	----	0.04
34.00	0.00	744.24	0.25	0.03	----	----	----	----	----	----	0.03
34.50	0.00	744.23	0.24	0.03	----	----	----	----	----	----	0.03
35.00	0.00	744.22	0.23	0.03	----	----	----	----	----	----	0.03
35.50	0.00	744.22	0.21	0.03	----	----	----	----	----	----	0.03
36.00	0.00	744.21	0.20	0.03	----	----	----	----	----	----	0.03
36.50	0.00	744.21	0.19	0.03	----	----	----	----	----	----	0.03
37.00	0.00	744.20	0.18	0.03	----	----	----	----	----	----	0.03
37.50	0.00	744.20	0.17	0.02	----	----	----	----	----	----	0.02
38.00	0.00	744.19	0.17	0.02	----	----	----	----	----	----	0.02
38.50	0.00	744.19	0.16	0.02	----	----	----	----	----	----	0.02
39.00	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
39.50	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
40.00	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
40.50	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
41.00	0.00	744.17	0.13	0.02	----	----	----	----	----	----	0.02
41.50	0.00	744.16	0.13	0.02	----	----	----	----	----	----	0.02
42.00	0.00	744.16	0.13	0.02	----	----	----	----	----	----	0.02
42.50	0.00	744.16	0.12	0.02	----	----	----	----	----	----	0.02
43.00	0.00	744.15	0.12	0.02	----	----	----	----	----	----	0.02

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
43.50	0.00	744.15	0.11	0.02	----	----	----	----	----	----	0.02
44.00	0.00	744.15	0.11	0.01	----	----	----	----	----	----	0.01
44.50	0.00	744.14	0.11	0.01	----	----	----	----	----	----	0.01
45.00	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
45.50	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
46.00	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
46.50	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
47.00	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
47.50	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
48.00	0.00	744.13	0.08	0.01	----	----	----	----	----	----	0.01
48.50	0.00	744.13	0.08	0.01	----	----	----	----	----	----	0.01
49.00	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
49.50	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
50.00	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
50.50	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
51.00	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
51.50	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
52.00	0.00	744.11	0.07	0.01	----	----	----	----	----	----	0.01
52.50	0.00	744.11	0.07	0.01	----	----	----	----	----	----	0.01
53.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
53.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
54.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
54.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
55.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
55.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
56.00	0.00	744.10	0.05	0.01	----	----	----	----	----	----	0.01
56.50	0.00	744.10	0.05	0.01	----	----	----	----	----	----	0.01
57.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
57.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
58.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
58.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
59.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
59.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
60.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
60.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
61.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
61.50	0.00	744.09	0.05	0.00	----	----	----	----	----	----	0.00
62.00	0.00	744.09	0.05	0.00	----	----	----	----	----	----	0.00
62.50	0.00	744.09	0.05	0.00	----	----	----	----	----	----	0.00
63.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
63.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
64.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
64.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
65.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
65.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
66.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
66.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
67.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
67.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
68.00	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
68.50	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
69.00	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
69.50	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
70.00	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
70.50	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
71.00	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
71.50	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
72.00	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00

...End

Hydrograph Report

Page 1

English

Hyd. No. 60

2YR 3HR

Hydrograph type = Reservoir
Storm frequency = 2 yrs
Inflow hyd. No. = 41
Max. Elevation = 745.25 ft

Peak discharge = 0.11 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 11,998 cuft

Storage Indication method used.

Total Volume = 11,925 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
1.00	1.79	744.14	0.09	0.01	----	----	----	----	----	----	0.01
1.50	2.33	744.56	1.18	0.07	----	----	----	----	----	----	0.07
2.00	1.32	744.88	2.33	0.09	----	----	----	----	----	----	0.09
2.50	1.20	745.09	2.90	0.10	----	----	----	----	----	----	0.10
3.00	0.79	745.22	3.21	0.11	----	----	----	----	----	----	0.11
3.50	0.00	745.24	3.26	0.11	----	----	----	----	----	----	0.11
4.00	0.00	745.23	3.22	0.11	----	----	----	----	----	----	0.11
4.50	0.00	745.21	3.18	0.11	----	----	----	----	----	----	0.11
5.00	0.00	745.19	3.14	0.11	----	----	----	----	----	----	0.11
5.50	0.00	745.17	3.10	0.11	----	----	----	----	----	----	0.11
6.00	0.00	745.16	3.06	0.11	----	----	----	----	----	----	0.11
6.50	0.00	745.14	3.02	0.11	----	----	----	----	----	----	0.11
7.00	0.00	745.12	2.98	0.10	----	----	----	----	----	----	0.10
7.50	0.00	745.11	2.95	0.10	----	----	----	----	----	----	0.10
8.00	0.00	745.09	2.91	0.10	----	----	----	----	----	----	0.10
8.50	0.00	745.07	2.86	0.10	----	----	----	----	----	----	0.10
9.00	0.00	745.06	2.82	0.10	----	----	----	----	----	----	0.10
9.50	0.00	745.04	2.78	0.10	----	----	----	----	----	----	0.10
10.00	0.00	745.03	2.74	0.10	----	----	----	----	----	----	0.10
10.50	0.00	745.01	2.70	0.10	----	----	----	----	----	----	0.10
11.00	0.00	744.99	2.66	0.10	----	----	----	----	----	----	0.10
11.50	0.00	744.98	2.61	0.10	----	----	----	----	----	----	0.10
12.00	0.00	744.96	2.56	0.10	----	----	----	----	----	----	0.10
12.50	0.00	744.94	2.51	0.09	----	----	----	----	----	----	0.09
13.00	0.00	744.92	2.46	0.09	----	----	----	----	----	----	0.09
13.50	0.00	744.90	2.42	0.09	----	----	----	----	----	----	0.09
14.00	0.00	744.88	2.36	0.09	----	----	----	----	----	----	0.09
14.50	0.00	744.87	2.30	0.09	----	----	----	----	----	----	0.09
15.00	0.00	744.85	2.24	0.09	----	----	----	----	----	----	0.09
15.50	0.00	744.83	2.18	0.09	----	----	----	----	----	----	0.09
16.00	0.00	744.81	2.12	0.09	----	----	----	----	----	----	0.09
16.50	0.00	744.80	2.06	0.09	----	----	----	----	----	----	0.09
17.00	0.00	744.78	2.00	0.09	----	----	----	----	----	----	0.09
17.50	0.00	744.76	1.93	0.08	----	----	----	----	----	----	0.08
18.00	0.00	744.75	1.87	0.08	----	----	----	----	----	----	0.08
18.50	0.00	744.73	1.81	0.08	----	----	----	----	----	----	0.08

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
19.00	0.00	744.71	1.75	0.08	----	----	----	----	----	----	0.08
19.50	0.00	744.70	1.69	0.08	----	----	----	----	----	----	0.08
20.00	0.00	744.68	1.64	0.08	----	----	----	----	----	----	0.08
20.50	0.00	744.67	1.58	0.08	----	----	----	----	----	----	0.08
21.00	0.00	744.65	1.53	0.08	----	----	----	----	----	----	0.08
21.50	0.00	744.64	1.47	0.08	----	----	----	----	----	----	0.08
22.00	0.00	744.62	1.42	0.07	----	----	----	----	----	----	0.07
22.50	0.00	744.61	1.37	0.07	----	----	----	----	----	----	0.07
23.00	0.00	744.59	1.31	0.07	----	----	----	----	----	----	0.07
23.50	0.00	744.58	1.26	0.07	----	----	----	----	----	----	0.07
24.00	0.00	744.57	1.20	0.07	----	----	----	----	----	----	0.07
24.50	0.00	744.55	1.15	0.07	----	----	----	----	----	----	0.07
25.00	0.00	744.54	1.10	0.07	----	----	----	----	----	----	0.07
25.50	0.00	744.52	1.04	0.07	----	----	----	----	----	----	0.07
26.00	0.00	744.51	0.99	0.07	----	----	----	----	----	----	0.07
26.50	0.00	744.50	0.94	0.07	----	----	----	----	----	----	0.07
27.00	0.00	744.49	0.90	0.06	----	----	----	----	----	----	0.06
27.50	0.00	744.47	0.86	0.06	----	----	----	----	----	----	0.06
28.00	0.00	744.46	0.82	0.06	----	----	----	----	----	----	0.06
28.50	0.00	744.45	0.79	0.06	----	----	----	----	----	----	0.06
29.00	0.00	744.44	0.75	0.06	----	----	----	----	----	----	0.06
29.50	0.00	744.42	0.71	0.06	----	----	----	----	----	----	0.06
30.00	0.00	744.41	0.68	0.06	----	----	----	----	----	----	0.06
30.50	0.00	744.40	0.64	0.06	----	----	----	----	----	----	0.06
31.00	0.00	744.39	0.61	0.06	----	----	----	----	----	----	0.06
31.50	0.00	744.38	0.58	0.06	----	----	----	----	----	----	0.06
32.00	0.00	744.37	0.56	0.05	----	----	----	----	----	----	0.05
32.50	0.00	744.36	0.53	0.05	----	----	----	----	----	----	0.05
33.00	0.00	744.35	0.50	0.05	----	----	----	----	----	----	0.05
33.50	0.00	744.34	0.48	0.05	----	----	----	----	----	----	0.05
34.00	0.00	744.33	0.45	0.05	----	----	----	----	----	----	0.05
34.50	0.00	744.32	0.43	0.05	----	----	----	----	----	----	0.05
35.00	0.00	744.31	0.40	0.05	----	----	----	----	----	----	0.05
35.50	0.00	744.30	0.38	0.05	----	----	----	----	----	----	0.05
36.00	0.00	744.29	0.36	0.05	----	----	----	----	----	----	0.05
36.50	0.00	744.28	0.34	0.04	----	----	----	----	----	----	0.04
37.00	0.00	744.27	0.32	0.04	----	----	----	----	----	----	0.04
37.50	0.00	744.26	0.31	0.04	----	----	----	----	----	----	0.04
38.00	0.00	744.25	0.29	0.04	----	----	----	----	----	----	0.04
38.50	0.00	744.25	0.28	0.04	----	----	----	----	----	----	0.04
39.00	0.00	744.24	0.26	0.04	----	----	----	----	----	----	0.04
39.50	0.00	744.23	0.25	0.03	----	----	----	----	----	----	0.03
40.00	0.00	744.23	0.23	0.03	----	----	----	----	----	----	0.03
40.50	0.00	744.22	0.22	0.03	----	----	----	----	----	----	0.03
41.00	0.00	744.22	0.21	0.03	----	----	----	----	----	----	0.03
41.50	0.00	744.21	0.20	0.03	----	----	----	----	----	----	0.03
42.00	0.00	744.20	0.19	0.03	----	----	----	----	----	----	0.03
42.50	0.00	744.20	0.18	0.03	----	----	----	----	----	----	0.03
43.00	0.00	744.19	0.17	0.02	----	----	----	----	----	----	0.02

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
43.50	0.00	744.19	0.16	0.02	----	----	----	----	----	----	0.02
44.00	0.00	744.19	0.16	0.02	----	----	----	----	----	----	0.02
44.50	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
45.00	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
45.50	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
46.00	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
46.50	0.00	744.17	0.13	0.02	----	----	----	----	----	----	0.02
47.00	0.00	744.16	0.13	0.02	----	----	----	----	----	----	0.02
47.50	0.00	744.16	0.12	0.02	----	----	----	----	----	----	0.02
48.00	0.00	744.16	0.12	0.02	----	----	----	----	----	----	0.02
48.50	0.00	744.15	0.12	0.02	----	----	----	----	----	----	0.02
49.00	0.00	744.15	0.11	0.01	----	----	----	----	----	----	0.01
49.50	0.00	744.15	0.11	0.01	----	----	----	----	----	----	0.01
50.00	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
50.50	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
51.00	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
51.50	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
52.00	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
52.50	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
53.00	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
53.50	0.00	744.13	0.08	0.01	----	----	----	----	----	----	0.01
54.00	0.00	744.13	0.08	0.01	----	----	----	----	----	----	0.01
54.50	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
55.00	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
55.50	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
56.00	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
56.50	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
57.00	0.00	744.11	0.07	0.01	----	----	----	----	----	----	0.01
57.50	0.00	744.11	0.07	0.01	----	----	----	----	----	----	0.01
58.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
58.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
59.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
59.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
60.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
60.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
61.00	0.00	744.10	0.06	0.01	----	----	----	----	----	----	0.01
61.50	0.00	744.10	0.05	0.01	----	----	----	----	----	----	0.01
62.00	0.00	744.10	0.05	0.01	----	----	----	----	----	----	0.01
62.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
63.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
63.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
64.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
64.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
65.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
65.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
66.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
66.50	0.00	744.09	0.05	0.00	----	----	----	----	----	----	0.00
67.00	0.00	744.09	0.05	0.00	----	----	----	----	----	----	0.00
67.50	0.00	744.09	0.05	0.00	----	----	----	----	----	----	0.00

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
68.00	0.00	744.09	0.05	0.00	----	----	----	----	----	----	0.00
68.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
69.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
69.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
70.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
70.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
71.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
71.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
72.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00

...End

Hydrograph Report

Page 1

English

Hyd. No. 61

2YR 6HR

Hydrograph type = Reservoir
Storm frequency = 2 yrs
Inflow hyd. No. = 42
Max. Elevation = 745.51 ft

Peak discharge = 0.12 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 14,905 cuft

Storage Indication method used.

Total Volume = 15,546 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
1.50	0.68	744.07	0.03	0.00	----	----	----	----	----	----	0.00
2.00	1.37	744.28	0.35	0.04	----	----	----	----	----	----	0.04
2.50	1.51	744.55	1.16	0.07	----	----	----	----	----	----	0.07
3.00	1.42	744.84	2.19	0.09	----	----	----	----	----	----	0.09
3.50	0.89	745.03	2.74	0.10	----	----	----	----	----	----	0.10
4.00	0.81	745.14	3.03	0.11	----	----	----	----	----	----	0.11
4.50	0.77	745.25	3.28	0.11	----	----	----	----	----	----	0.11
5.00	0.65	745.36	3.50	0.12	----	----	----	----	----	----	0.12
5.50	0.57	745.43	3.65	0.12	----	----	----	----	----	----	0.12
6.00	0.49	745.49	3.77	0.12	----	----	----	----	----	----	0.12
6.50	0.00	745.50	3.78	0.12	----	----	----	----	----	----	0.12
7.00	0.00	745.48	3.74	0.12	----	----	----	----	----	----	0.12
7.50	0.00	745.46	3.70	0.12	----	----	----	----	----	----	0.12
8.00	0.00	745.44	3.66	0.12	----	----	----	----	----	----	0.12
8.50	0.00	745.42	3.63	0.12	----	----	----	----	----	----	0.12
9.00	0.00	745.40	3.59	0.12	----	----	----	----	----	----	0.12
9.50	0.00	745.38	3.55	0.12	----	----	----	----	----	----	0.12
10.00	0.00	745.37	3.52	0.12	----	----	----	----	----	----	0.12
10.50	0.00	745.35	3.48	0.11	----	----	----	----	----	----	0.11
11.00	0.00	745.33	3.44	0.11	----	----	----	----	----	----	0.11
11.50	0.00	745.31	3.40	0.11	----	----	----	----	----	----	0.11
12.00	0.00	745.29	3.37	0.11	----	----	----	----	----	----	0.11
12.50	0.00	745.27	3.33	0.11	----	----	----	----	----	----	0.11
13.00	0.00	745.26	3.29	0.11	----	----	----	----	----	----	0.11
13.50	0.00	745.24	3.25	0.11	----	----	----	----	----	----	0.11
14.00	0.00	745.22	3.21	0.11	----	----	----	----	----	----	0.11
14.50	0.00	745.21	3.17	0.11	----	----	----	----	----	----	0.11
15.00	0.00	745.19	3.14	0.11	----	----	----	----	----	----	0.11
15.50	0.00	745.17	3.10	0.11	----	----	----	----	----	----	0.11
16.00	0.00	745.15	3.06	0.11	----	----	----	----	----	----	0.11
16.50	0.00	745.14	3.02	0.10	----	----	----	----	----	----	0.10
17.00	0.00	745.12	2.98	0.10	----	----	----	----	----	----	0.10
17.50	0.00	745.10	2.94	0.10	----	----	----	----	----	----	0.10
18.00	0.00	745.09	2.90	0.10	----	----	----	----	----	----	0.10
18.50	0.00	745.07	2.86	0.10	----	----	----	----	----	----	0.10
19.00	0.00	745.06	2.82	0.10	----	----	----	----	----	----	0.10

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
19.50	0.00	745.04	2.78	0.10	----	----	----	----	----	----	0.10
20.00	0.00	745.02	2.74	0.10	----	----	----	----	----	----	0.10
20.50	0.00	745.01	2.70	0.10	----	----	----	----	----	----	0.10
21.00	0.00	744.99	2.65	0.10	----	----	----	----	----	----	0.10
21.50	0.00	744.97	2.60	0.10	----	----	----	----	----	----	0.10
22.00	0.00	744.95	2.55	0.10	----	----	----	----	----	----	0.10
22.50	0.00	744.93	2.50	0.09	----	----	----	----	----	----	0.09
23.00	0.00	744.92	2.46	0.09	----	----	----	----	----	----	0.09
23.50	0.00	744.90	2.41	0.09	----	----	----	----	----	----	0.09
24.00	0.00	744.88	2.35	0.09	----	----	----	----	----	----	0.09
24.50	0.00	744.86	2.29	0.09	----	----	----	----	----	----	0.09
25.00	0.00	744.84	2.23	0.09	----	----	----	----	----	----	0.09
25.50	0.00	744.83	2.17	0.09	----	----	----	----	----	----	0.09
26.00	0.00	744.81	2.11	0.09	----	----	----	----	----	----	0.09
26.50	0.00	744.79	2.05	0.09	----	----	----	----	----	----	0.09
27.00	0.00	744.78	1.99	0.08	----	----	----	----	----	----	0.08
27.50	0.00	744.76	1.92	0.08	----	----	----	----	----	----	0.08
28.00	0.00	744.74	1.86	0.08	----	----	----	----	----	----	0.08
28.50	0.00	744.73	1.80	0.08	----	----	----	----	----	----	0.08
29.00	0.00	744.71	1.74	0.08	----	----	----	----	----	----	0.08
29.50	0.00	744.70	1.68	0.08	----	----	----	----	----	----	0.08
30.00	0.00	744.68	1.63	0.08	----	----	----	----	----	----	0.08
30.50	0.00	744.66	1.57	0.08	----	----	----	----	----	----	0.08
31.00	0.00	744.65	1.52	0.08	----	----	----	----	----	----	0.08
31.50	0.00	744.63	1.46	0.08	----	----	----	----	----	----	0.08
32.00	0.00	744.62	1.41	0.07	----	----	----	----	----	----	0.07
32.50	0.00	744.61	1.36	0.07	----	----	----	----	----	----	0.07
33.00	0.00	744.59	1.31	0.07	----	----	----	----	----	----	0.07
33.50	0.00	744.58	1.25	0.07	----	----	----	----	----	----	0.07
34.00	0.00	744.56	1.19	0.07	----	----	----	----	----	----	0.07
34.50	0.00	744.55	1.14	0.07	----	----	----	----	----	----	0.07
35.00	0.00	744.54	1.09	0.07	----	----	----	----	----	----	0.07
35.50	0.00	744.52	1.03	0.07	----	----	----	----	----	----	0.07
36.00	0.00	744.51	0.98	0.07	----	----	----	----	----	----	0.07
36.50	0.00	744.50	0.93	0.07	----	----	----	----	----	----	0.07
37.00	0.00	744.48	0.89	0.06	----	----	----	----	----	----	0.06
37.50	0.00	744.47	0.86	0.06	----	----	----	----	----	----	0.06
38.00	0.00	744.46	0.82	0.06	----	----	----	----	----	----	0.06
38.50	0.00	744.45	0.78	0.06	----	----	----	----	----	----	0.06
39.00	0.00	744.43	0.74	0.06	----	----	----	----	----	----	0.06
39.50	0.00	744.42	0.71	0.06	----	----	----	----	----	----	0.06
40.00	0.00	744.41	0.67	0.06	----	----	----	----	----	----	0.06
40.50	0.00	744.40	0.64	0.06	----	----	----	----	----	----	0.06
41.00	0.00	744.39	0.61	0.06	----	----	----	----	----	----	0.06
41.50	0.00	744.38	0.58	0.06	----	----	----	----	----	----	0.06
42.00	0.00	744.37	0.55	0.05	----	----	----	----	----	----	0.05
42.50	0.00	744.36	0.53	0.05	----	----	----	----	----	----	0.05
43.00	0.00	744.35	0.50	0.05	----	----	----	----	----	----	0.05
43.50	0.00	744.34	0.47	0.05	----	----	----	----	----	----	0.05

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
44.00	0.00	744.33	0.45	0.05	----	----	----	----	----	----	0.05
44.50	0.00	744.32	0.42	0.05	----	----	----	----	----	----	0.05
45.00	0.00	744.31	0.40	0.05	----	----	----	----	----	----	0.05
45.50	0.00	744.30	0.38	0.05	----	----	----	----	----	----	0.05
46.00	0.00	744.29	0.36	0.05	----	----	----	----	----	----	0.05
46.50	0.00	744.28	0.34	0.04	----	----	----	----	----	----	0.04
47.00	0.00	744.27	0.32	0.04	----	----	----	----	----	----	0.04
47.50	0.00	744.26	0.30	0.04	----	----	----	----	----	----	0.04
48.00	0.00	744.25	0.29	0.04	----	----	----	----	----	----	0.04
48.50	0.00	744.25	0.27	0.04	----	----	----	----	----	----	0.04
49.00	0.00	744.24	0.26	0.03	----	----	----	----	----	----	0.03
49.50	0.00	744.23	0.25	0.03	----	----	----	----	----	----	0.03
50.00	0.00	744.23	0.23	0.03	----	----	----	----	----	----	0.03
50.50	0.00	744.22	0.22	0.03	----	----	----	----	----	----	0.03
51.00	0.00	744.21	0.21	0.03	----	----	----	----	----	----	0.03
51.50	0.00	744.21	0.20	0.03	----	----	----	----	----	----	0.03
52.00	0.00	744.20	0.19	0.03	----	----	----	----	----	----	0.03
52.50	0.00	744.20	0.18	0.03	----	----	----	----	----	----	0.03
53.00	0.00	744.19	0.17	0.02	----	----	----	----	----	----	0.02
53.50	0.00	744.19	0.16	0.02	----	----	----	----	----	----	0.02
54.00	0.00	744.18	0.16	0.02	----	----	----	----	----	----	0.02
54.50	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
55.00	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
55.50	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
56.00	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
56.50	0.00	744.16	0.13	0.02	----	----	----	----	----	----	0.02
57.00	0.00	744.16	0.13	0.02	----	----	----	----	----	----	0.02
57.50	0.00	744.16	0.12	0.02	----	----	----	----	----	----	0.02
58.00	0.00	744.15	0.12	0.02	----	----	----	----	----	----	0.02
58.50	0.00	744.15	0.12	0.02	----	----	----	----	----	----	0.02
59.00	0.00	744.15	0.11	0.01	----	----	----	----	----	----	0.01
59.50	0.00	744.15	0.11	0.01	----	----	----	----	----	----	0.01
60.00	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
60.50	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
61.00	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
61.50	0.00	744.14	0.09	0.01	----	----	----	----	----	----	0.01
62.00	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
62.50	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
63.00	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
63.50	0.00	744.13	0.08	0.01	----	----	----	----	----	----	0.01
64.00	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
64.50	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
65.00	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
65.50	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
66.00	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
66.50	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
67.00	0.00	744.11	0.07	0.01	----	----	----	----	----	----	0.01
67.50	0.00	744.11	0.07	0.01	----	----	----	----	----	----	0.01
68.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
68.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
69.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
69.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
70.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
70.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
71.00	0.00	744.10	0.05	0.01	----	----	----	----	----	----	0.01
71.50	0.00	744.10	0.05	0.01	----	----	----	----	----	----	0.01
72.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00

...End

Hydrograph Report

Page 1

English

Hyd. No. 62

2YR 12HR

Hydrograph type = Reservoir
Storm frequency = 2 yrs
Inflow hyd. No. = 43
Max. Elevation = 745.82 ft

Peak discharge = 0.13 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 18,415 cuft

Storage Indication method used.

Total Volume = 20,604 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
2.50	0.37	744.06	0.03	0.00	----	----	----	----	----	----	0.00
3.00	0.58	744.15	0.12	0.02	----	----	----	----	----	----	0.02
3.50	0.92	744.30	0.39	0.05	----	----	----	----	----	----	0.05
4.00	0.95	744.47	0.87	0.06	----	----	----	----	----	----	0.06
4.50	0.96	744.65	1.52	0.08	----	----	----	----	----	----	0.08
5.00	1.01	744.83	2.18	0.09	----	----	----	----	----	----	0.09
5.50	1.01	745.01	2.70	0.10	----	----	----	----	----	----	0.10
6.00	0.93	745.14	3.03	0.11	----	----	----	----	----	----	0.11
6.50	0.63	745.24	3.25	0.11	----	----	----	----	----	----	0.11
7.00	0.55	745.32	3.42	0.11	----	----	----	----	----	----	0.11
7.50	0.52	745.38	3.56	0.12	----	----	----	----	----	----	0.12
8.00	0.51	745.45	3.68	0.12	----	----	----	----	----	----	0.12
8.50	0.51	745.51	3.80	0.12	----	----	----	----	----	----	0.12
9.00	0.49	745.57	3.91	0.12	----	----	----	----	----	----	0.12
9.50	0.51	745.63	4.02	0.13	----	----	----	----	----	----	0.13
10.00	0.38	745.68	4.10	0.13	----	----	----	----	----	----	0.13
10.50	0.38	745.72	4.17	0.13	----	----	----	----	----	----	0.13
11.00	0.32	745.76	4.24	0.13	----	----	----	----	----	----	0.13
11.50	0.30	745.78	4.28	0.13	----	----	----	----	----	----	0.13
12.00	0.31	745.81	4.33	0.13	----	----	----	----	----	----	0.13
12.50	0.00	745.80	4.32	0.13	----	----	----	----	----	----	0.13
13.00	0.00	745.78	4.28	0.13	----	----	----	----	----	----	0.13
13.50	0.00	745.76	4.25	0.13	----	----	----	----	----	----	0.13
14.00	0.00	745.74	4.21	0.13	----	----	----	----	----	----	0.13
14.50	0.00	745.72	4.18	0.13	----	----	----	----	----	----	0.13
15.00	0.00	745.70	4.14	0.13	----	----	----	----	----	----	0.13
15.50	0.00	745.68	4.10	0.13	----	----	----	----	----	----	0.13
16.00	0.00	745.66	4.07	0.13	----	----	----	----	----	----	0.13
16.50	0.00	745.64	4.03	0.13	----	----	----	----	----	----	0.13
17.00	0.00	745.62	4.00	0.13	----	----	----	----	----	----	0.13
17.50	0.00	745.60	3.96	0.13	----	----	----	----	----	----	0.13
18.00	0.00	745.58	3.92	0.13	----	----	----	----	----	----	0.13
18.50	0.00	745.56	3.89	0.12	----	----	----	----	----	----	0.12
19.00	0.00	745.54	3.85	0.12	----	----	----	----	----	----	0.12
19.50	0.00	745.52	3.81	0.12	----	----	----	----	----	----	0.12
20.00	0.00	745.50	3.78	0.12	----	----	----	----	----	----	0.12

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
20.50	0.00	745.48	3.74	0.12	----	----	----	----	----	----	0.12
21.00	0.00	745.46	3.70	0.12	----	----	----	----	----	----	0.12
21.50	0.00	745.44	3.67	0.12	----	----	----	----	----	----	0.12
22.00	0.00	745.42	3.63	0.12	----	----	----	----	----	----	0.12
22.50	0.00	745.40	3.59	0.12	----	----	----	----	----	----	0.12
23.00	0.00	745.39	3.56	0.12	----	----	----	----	----	----	0.12
23.50	0.00	745.37	3.52	0.12	----	----	----	----	----	----	0.12
24.00	0.00	745.35	3.48	0.12	----	----	----	----	----	----	0.12
24.50	0.00	745.33	3.44	0.11	----	----	----	----	----	----	0.11
25.00	0.00	745.31	3.41	0.11	----	----	----	----	----	----	0.11
25.50	0.00	745.29	3.37	0.11	----	----	----	----	----	----	0.11
26.00	0.00	745.28	3.33	0.11	----	----	----	----	----	----	0.11
26.50	0.00	745.26	3.29	0.11	----	----	----	----	----	----	0.11
27.00	0.00	745.24	3.25	0.11	----	----	----	----	----	----	0.11
27.50	0.00	745.22	3.22	0.11	----	----	----	----	----	----	0.11
28.00	0.00	745.21	3.18	0.11	----	----	----	----	----	----	0.11
28.50	0.00	745.19	3.14	0.11	----	----	----	----	----	----	0.11
29.00	0.00	745.17	3.10	0.11	----	----	----	----	----	----	0.11
29.50	0.00	745.16	3.06	0.11	----	----	----	----	----	----	0.11
30.00	0.00	745.14	3.02	0.10	----	----	----	----	----	----	0.10
30.50	0.00	745.12	2.98	0.10	----	----	----	----	----	----	0.10
31.00	0.00	745.11	2.94	0.10	----	----	----	----	----	----	0.10
31.50	0.00	745.09	2.90	0.10	----	----	----	----	----	----	0.10
32.00	0.00	745.07	2.86	0.10	----	----	----	----	----	----	0.10
32.50	0.00	745.06	2.82	0.10	----	----	----	----	----	----	0.10
33.00	0.00	745.04	2.78	0.10	----	----	----	----	----	----	0.10
33.50	0.00	745.03	2.74	0.10	----	----	----	----	----	----	0.10
34.00	0.00	745.01	2.70	0.10	----	----	----	----	----	----	0.10
34.50	0.00	744.99	2.66	0.10	----	----	----	----	----	----	0.10
35.00	0.00	744.97	2.61	0.10	----	----	----	----	----	----	0.10
35.50	0.00	744.96	2.56	0.10	----	----	----	----	----	----	0.10
36.00	0.00	744.94	2.51	0.09	----	----	----	----	----	----	0.09
36.50	0.00	744.92	2.46	0.09	----	----	----	----	----	----	0.09
37.00	0.00	744.90	2.41	0.09	----	----	----	----	----	----	0.09
37.50	0.00	744.88	2.35	0.09	----	----	----	----	----	----	0.09
38.00	0.00	744.86	2.29	0.09	----	----	----	----	----	----	0.09
38.50	0.00	744.85	2.23	0.09	----	----	----	----	----	----	0.09
39.00	0.00	744.83	2.17	0.09	----	----	----	----	----	----	0.09
39.50	0.00	744.81	2.12	0.09	----	----	----	----	----	----	0.09
40.00	0.00	744.79	2.06	0.09	----	----	----	----	----	----	0.09
40.50	0.00	744.78	1.99	0.08	----	----	----	----	----	----	0.08
41.00	0.00	744.76	1.93	0.08	----	----	----	----	----	----	0.08
41.50	0.00	744.75	1.87	0.08	----	----	----	----	----	----	0.08
42.00	0.00	744.73	1.81	0.08	----	----	----	----	----	----	0.08
42.50	0.00	744.71	1.75	0.08	----	----	----	----	----	----	0.08
43.00	0.00	744.70	1.69	0.08	----	----	----	----	----	----	0.08
43.50	0.00	744.68	1.63	0.08	----	----	----	----	----	----	0.08
44.00	0.00	744.67	1.58	0.08	----	----	----	----	----	----	0.08
44.50	0.00	744.65	1.52	0.08	----	----	----	----	----	----	0.08

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
45.00	0.00	744.64	1.47	0.08	----	----	----	----	----	----	0.08
45.50	0.00	744.62	1.42	0.07	----	----	----	----	----	----	0.07
46.00	0.00	744.61	1.37	0.07	----	----	----	----	----	----	0.07
46.50	0.00	744.59	1.31	0.07	----	----	----	----	----	----	0.07
47.00	0.00	744.58	1.26	0.07	----	----	----	----	----	----	0.07
47.50	0.00	744.56	1.20	0.07	----	----	----	----	----	----	0.07
48.00	0.00	744.55	1.15	0.07	----	----	----	----	----	----	0.07
48.50	0.00	744.54	1.09	0.07	----	----	----	----	----	----	0.07
49.00	0.00	744.52	1.04	0.07	----	----	----	----	----	----	0.07
49.50	0.00	744.51	0.99	0.07	----	----	----	----	----	----	0.07
50.00	0.00	744.50	0.94	0.07	----	----	----	----	----	----	0.07
50.50	0.00	744.48	0.90	0.06	----	----	----	----	----	----	0.06
51.00	0.00	744.47	0.86	0.06	----	----	----	----	----	----	0.06
51.50	0.00	744.46	0.82	0.06	----	----	----	----	----	----	0.06
52.00	0.00	744.45	0.78	0.06	----	----	----	----	----	----	0.06
52.50	0.00	744.44	0.75	0.06	----	----	----	----	----	----	0.06
53.00	0.00	744.42	0.71	0.06	----	----	----	----	----	----	0.06
53.50	0.00	744.41	0.67	0.06	----	----	----	----	----	----	0.06
54.00	0.00	744.40	0.64	0.06	----	----	----	----	----	----	0.06
54.50	0.00	744.39	0.61	0.06	----	----	----	----	----	----	0.06
55.00	0.00	744.38	0.58	0.06	----	----	----	----	----	----	0.06
55.50	0.00	744.37	0.56	0.05	----	----	----	----	----	----	0.05
56.00	0.00	744.36	0.53	0.05	----	----	----	----	----	----	0.05
56.50	0.00	744.35	0.50	0.05	----	----	----	----	----	----	0.05
57.00	0.00	744.34	0.48	0.05	----	----	----	----	----	----	0.05
57.50	0.00	744.33	0.45	0.05	----	----	----	----	----	----	0.05
58.00	0.00	744.32	0.43	0.05	----	----	----	----	----	----	0.05
58.50	0.00	744.31	0.40	0.05	----	----	----	----	----	----	0.05
59.00	0.00	744.30	0.38	0.05	----	----	----	----	----	----	0.05
59.50	0.00	744.29	0.36	0.05	----	----	----	----	----	----	0.05
60.00	0.00	744.28	0.34	0.04	----	----	----	----	----	----	0.04
60.50	0.00	744.27	0.32	0.04	----	----	----	----	----	----	0.04
61.00	0.00	744.26	0.31	0.04	----	----	----	----	----	----	0.04
61.50	0.00	744.25	0.29	0.04	----	----	----	----	----	----	0.04
62.00	0.00	744.25	0.28	0.04	----	----	----	----	----	----	0.04
62.50	0.00	744.24	0.26	0.03	----	----	----	----	----	----	0.03
63.00	0.00	744.23	0.25	0.03	----	----	----	----	----	----	0.03
63.50	0.00	744.23	0.23	0.03	----	----	----	----	----	----	0.03
64.00	0.00	744.22	0.22	0.03	----	----	----	----	----	----	0.03
64.50	0.00	744.22	0.21	0.03	----	----	----	----	----	----	0.03
65.00	0.00	744.21	0.20	0.03	----	----	----	----	----	----	0.03
65.50	0.00	744.20	0.19	0.03	----	----	----	----	----	----	0.03
66.00	0.00	744.20	0.18	0.03	----	----	----	----	----	----	0.03
66.50	0.00	744.19	0.17	0.02	----	----	----	----	----	----	0.02
67.00	0.00	744.19	0.16	0.02	----	----	----	----	----	----	0.02
67.50	0.00	744.18	0.16	0.02	----	----	----	----	----	----	0.02
68.00	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
68.50	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
69.00	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
69.50	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
70.00	0.00	744.16	0.13	0.02	----	----	----	----	----	----	0.02
70.50	0.00	744.16	0.13	0.02	----	----	----	----	----	----	0.02
71.00	0.00	744.16	0.12	0.02	----	----	----	----	----	----	0.02
71.50	0.00	744.15	0.12	0.02	----	----	----	----	----	----	0.02
72.00	0.00	744.15	0.12	0.02	----	----	----	----	----	----	0.02

...End

Hydrograph Report

Page 1

English

Hyd. No. 63

2YR 24HR

Hydrograph type = Reservoir
Storm frequency = 2 yrs
Inflow hyd. No. = 44
Max. Elevation = 745.77 ft

Peak discharge = 0.13 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 17,913 cuft

Storage Indication method used.

Total Volume = 22,841 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
4.50	0.19	744.05	0.03	0.00	----	----	----	----	----	----	0.00
5.00	0.26	744.10	0.05	0.00	----	----	----	----	----	----	0.00
5.50	0.32	744.15	0.11	0.02	----	----	----	----	----	----	0.02
6.00	0.36	744.21	0.21	0.03	----	----	----	----	----	----	0.03
6.50	0.51	744.29	0.37	0.05	----	----	----	----	----	----	0.05
7.00	0.56	744.39	0.61	0.06	----	----	----	----	----	----	0.06
7.50	0.53	744.49	0.90	0.06	----	----	----	----	----	----	0.06
8.00	0.56	744.58	1.26	0.07	----	----	----	----	----	----	0.07
8.50	0.57	744.68	1.61	0.08	----	----	----	----	----	----	0.08
9.00	0.56	744.77	1.96	0.08	----	----	----	----	----	----	0.08
9.50	0.57	744.86	2.29	0.09	----	----	----	----	----	----	0.09
10.00	0.58	744.96	2.56	0.10	----	----	----	----	----	----	0.10
10.50	0.59	745.04	2.78	0.10	----	----	----	----	----	----	0.10
11.00	0.54	745.12	2.97	0.10	----	----	----	----	----	----	0.10
11.50	0.52	745.19	3.13	0.11	----	----	----	----	----	----	0.11
12.00	0.53	745.25	3.27	0.11	----	----	----	----	----	----	0.11
12.50	0.35	745.30	3.38	0.11	----	----	----	----	----	----	0.11
13.00	0.36	745.34	3.45	0.11	----	----	----	----	----	----	0.11
13.50	0.31	745.37	3.53	0.12	----	----	----	----	----	----	0.12
14.00	0.31	745.40	3.59	0.12	----	----	----	----	----	----	0.12
14.50	0.31	745.43	3.65	0.12	----	----	----	----	----	----	0.12
15.00	0.29	745.46	3.71	0.12	----	----	----	----	----	----	0.12
15.50	0.29	745.49	3.76	0.12	----	----	----	----	----	----	0.12
16.00	0.29	745.52	3.81	0.12	----	----	----	----	----	----	0.12
16.50	0.29	745.54	3.86	0.12	----	----	----	----	----	----	0.12
17.00	0.28	745.57	3.91	0.12	----	----	----	----	----	----	0.12
17.50	0.27	745.59	3.95	0.13	----	----	----	----	----	----	0.13
18.00	0.28	745.61	3.99	0.13	----	----	----	----	----	----	0.13
18.50	0.28	745.64	4.03	0.13	----	----	----	----	----	----	0.13
19.00	0.29	745.66	4.08	0.13	----	----	----	----	----	----	0.13
19.50	0.22	745.69	4.12	0.13	----	----	----	----	----	----	0.13
20.00	0.21	745.70	4.14	0.13	----	----	----	----	----	----	0.13
20.50	0.21	745.71	4.16	0.13	----	----	----	----	----	----	0.13
21.00	0.21	745.72	4.18	0.13	----	----	----	----	----	----	0.13
21.50	0.21	745.74	4.21	0.13	----	----	----	----	----	----	0.13
22.00	0.17	745.75	4.22	0.13	----	----	----	----	----	----	0.13

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
22.50	0.17	745.75	4.23	0.13	----	----	----	----	----	----	0.13
23.00	0.17	745.76	4.24	0.13	----	----	----	----	----	----	0.13
23.50	0.17	745.76	4.25	0.13	----	----	----	----	----	----	0.13
24.00	0.17	745.77	4.26	0.13	----	----	----	----	----	----	0.13
24.50	0.00	745.76	4.24	0.13	----	----	----	----	----	----	0.13
25.00	0.00	745.74	4.20	0.13	----	----	----	----	----	----	0.13
25.50	0.00	745.72	4.17	0.13	----	----	----	----	----	----	0.13
26.00	0.00	745.70	4.13	0.13	----	----	----	----	----	----	0.13
26.50	0.00	745.67	4.10	0.13	----	----	----	----	----	----	0.13
27.00	0.00	745.65	4.06	0.13	----	----	----	----	----	----	0.13
27.50	0.00	745.63	4.03	0.13	----	----	----	----	----	----	0.13
28.00	0.00	745.61	3.99	0.13	----	----	----	----	----	----	0.13
28.50	0.00	745.59	3.95	0.13	----	----	----	----	----	----	0.13
29.00	0.00	745.57	3.92	0.13	----	----	----	----	----	----	0.13
29.50	0.00	745.55	3.88	0.12	----	----	----	----	----	----	0.12
30.00	0.00	745.53	3.84	0.12	----	----	----	----	----	----	0.12
30.50	0.00	745.51	3.81	0.12	----	----	----	----	----	----	0.12
31.00	0.00	745.50	3.77	0.12	----	----	----	----	----	----	0.12
31.50	0.00	745.48	3.74	0.12	----	----	----	----	----	----	0.12
32.00	0.00	745.46	3.70	0.12	----	----	----	----	----	----	0.12
32.50	0.00	745.44	3.66	0.12	----	----	----	----	----	----	0.12
33.00	0.00	745.42	3.62	0.12	----	----	----	----	----	----	0.12
33.50	0.00	745.40	3.59	0.12	----	----	----	----	----	----	0.12
34.00	0.00	745.38	3.55	0.12	----	----	----	----	----	----	0.12
34.50	0.00	745.36	3.51	0.12	----	----	----	----	----	----	0.12
35.00	0.00	745.35	3.48	0.11	----	----	----	----	----	----	0.11
35.50	0.00	745.33	3.44	0.11	----	----	----	----	----	----	0.11
36.00	0.00	745.31	3.40	0.11	----	----	----	----	----	----	0.11
36.50	0.00	745.29	3.36	0.11	----	----	----	----	----	----	0.11
37.00	0.00	745.27	3.32	0.11	----	----	----	----	----	----	0.11
37.50	0.00	745.26	3.29	0.11	----	----	----	----	----	----	0.11
38.00	0.00	745.24	3.25	0.11	----	----	----	----	----	----	0.11
38.50	0.00	745.22	3.21	0.11	----	----	----	----	----	----	0.11
39.00	0.00	745.20	3.17	0.11	----	----	----	----	----	----	0.11
39.50	0.00	745.19	3.13	0.11	----	----	----	----	----	----	0.11
40.00	0.00	745.17	3.09	0.11	----	----	----	----	----	----	0.11
40.50	0.00	745.15	3.05	0.11	----	----	----	----	----	----	0.11
41.00	0.00	745.14	3.01	0.10	----	----	----	----	----	----	0.10
41.50	0.00	745.12	2.97	0.10	----	----	----	----	----	----	0.10
42.00	0.00	745.10	2.94	0.10	----	----	----	----	----	----	0.10
42.50	0.00	745.09	2.90	0.10	----	----	----	----	----	----	0.10
43.00	0.00	745.07	2.85	0.10	----	----	----	----	----	----	0.10
43.50	0.00	745.05	2.81	0.10	----	----	----	----	----	----	0.10
44.00	0.00	745.04	2.77	0.10	----	----	----	----	----	----	0.10
44.50	0.00	745.02	2.73	0.10	----	----	----	----	----	----	0.10
45.00	0.00	745.01	2.69	0.10	----	----	----	----	----	----	0.10
45.50	0.00	744.99	2.65	0.10	----	----	----	----	----	----	0.10
46.00	0.00	744.97	2.60	0.10	----	----	----	----	----	----	0.10
46.50	0.00	744.95	2.55	0.10	----	----	----	----	----	----	0.10

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
47.00	0.00	744.93	2.50	0.09	----	----	----	----	----	----	0.09
47.50	0.00	744.92	2.45	0.09	----	----	----	----	----	----	0.09
48.00	0.00	744.90	2.40	0.09	----	----	----	----	----	----	0.09
48.50	0.00	744.88	2.34	0.09	----	----	----	----	----	----	0.09
49.00	0.00	744.86	2.28	0.09	----	----	----	----	----	----	0.09
49.50	0.00	744.84	2.22	0.09	----	----	----	----	----	----	0.09
50.00	0.00	744.83	2.16	0.09	----	----	----	----	----	----	0.09
50.50	0.00	744.81	2.11	0.09	----	----	----	----	----	----	0.09
51.00	0.00	744.79	2.04	0.09	----	----	----	----	----	----	0.09
51.50	0.00	744.78	1.98	0.08	----	----	----	----	----	----	0.08
52.00	0.00	744.76	1.92	0.08	----	----	----	----	----	----	0.08
52.50	0.00	744.74	1.86	0.08	----	----	----	----	----	----	0.08
53.00	0.00	744.73	1.80	0.08	----	----	----	----	----	----	0.08
53.50	0.00	744.71	1.74	0.08	----	----	----	----	----	----	0.08
54.00	0.00	744.69	1.68	0.08	----	----	----	----	----	----	0.08
54.50	0.00	744.68	1.62	0.08	----	----	----	----	----	----	0.08
55.00	0.00	744.66	1.57	0.08	----	----	----	----	----	----	0.08
55.50	0.00	744.65	1.51	0.08	----	----	----	----	----	----	0.08
56.00	0.00	744.63	1.46	0.08	----	----	----	----	----	----	0.08
56.50	0.00	744.62	1.41	0.07	----	----	----	----	----	----	0.07
57.00	0.00	744.60	1.36	0.07	----	----	----	----	----	----	0.07
57.50	0.00	744.59	1.30	0.07	----	----	----	----	----	----	0.07
58.00	0.00	744.58	1.25	0.07	----	----	----	----	----	----	0.07
58.50	0.00	744.56	1.19	0.07	----	----	----	----	----	----	0.07
59.00	0.00	744.55	1.14	0.07	----	----	----	----	----	----	0.07
59.50	0.00	744.53	1.08	0.07	----	----	----	----	----	----	0.07
60.00	0.00	744.52	1.03	0.07	----	----	----	----	----	----	0.07
60.50	0.00	744.51	0.98	0.07	----	----	----	----	----	----	0.07
61.00	0.00	744.50	0.93	0.07	----	----	----	----	----	----	0.07
61.50	0.00	744.48	0.89	0.06	----	----	----	----	----	----	0.06
62.00	0.00	744.47	0.85	0.06	----	----	----	----	----	----	0.06
62.50	0.00	744.46	0.81	0.06	----	----	----	----	----	----	0.06
63.00	0.00	744.45	0.78	0.06	----	----	----	----	----	----	0.06
63.50	0.00	744.43	0.74	0.06	----	----	----	----	----	----	0.06
64.00	0.00	744.42	0.70	0.06	----	----	----	----	----	----	0.06
64.50	0.00	744.41	0.67	0.06	----	----	----	----	----	----	0.06
65.00	0.00	744.40	0.63	0.06	----	----	----	----	----	----	0.06
65.50	0.00	744.39	0.61	0.06	----	----	----	----	----	----	0.06
66.00	0.00	744.38	0.58	0.06	----	----	----	----	----	----	0.06
66.50	0.00	744.37	0.55	0.05	----	----	----	----	----	----	0.05
67.00	0.00	744.36	0.52	0.05	----	----	----	----	----	----	0.05
67.50	0.00	744.34	0.50	0.05	----	----	----	----	----	----	0.05
68.00	0.00	744.33	0.47	0.05	----	----	----	----	----	----	0.05
68.50	0.00	744.32	0.45	0.05	----	----	----	----	----	----	0.05
69.00	0.00	744.31	0.42	0.05	----	----	----	----	----	----	0.05
69.50	0.00	744.30	0.40	0.05	----	----	----	----	----	----	0.05
70.00	0.00	744.30	0.37	0.05	----	----	----	----	----	----	0.05
70.50	0.00	744.29	0.36	0.05	----	----	----	----	----	----	0.05
71.00	0.00	744.28	0.34	0.04	----	----	----	----	----	----	0.04

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
71.50	0.00	744.27	0.32	0.04	----	----	----	----	----	----	0.04
72.00	0.00	744.26	0.30	0.04	----	----	----	----	----	----	0.04

...End

Hydrograph Report

Page 1

English

Hyd. No. 64

10YR 1HR

Hydrograph type = Reservoir
Storm frequency = 10 yrs
Inflow hyd. No. = 45
Max. Elevation = 745.59 ft

Peak discharge = 0.13 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 15,889 cuft

Storage Indication method used.

Total Volume = 15,334 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
0.50	7.79	744.42	0.70	0.06	----	----	----	----	----	----	0.06
1.00	3.67	745.45	3.68	0.12	----	----	----	----	----	----	0.12
1.50	0.00	745.59	3.94	0.13	----	----	----	----	----	----	0.13
2.00	0.00	745.57	3.90	0.12	----	----	----	----	----	----	0.12
2.50	0.00	745.55	3.87	0.12	----	----	----	----	----	----	0.12
3.00	0.00	745.53	3.83	0.12	----	----	----	----	----	----	0.12
3.50	0.00	745.51	3.79	0.12	----	----	----	----	----	----	0.12
4.00	0.00	745.49	3.76	0.12	----	----	----	----	----	----	0.12
4.50	0.00	745.47	3.72	0.12	----	----	----	----	----	----	0.12
5.00	0.00	745.45	3.68	0.12	----	----	----	----	----	----	0.12
5.50	0.00	745.43	3.65	0.12	----	----	----	----	----	----	0.12
6.00	0.00	745.41	3.61	0.12	----	----	----	----	----	----	0.12
6.50	0.00	745.39	3.57	0.12	----	----	----	----	----	----	0.12
7.00	0.00	745.37	3.54	0.12	----	----	----	----	----	----	0.12
7.50	0.00	745.36	3.50	0.12	----	----	----	----	----	----	0.12
8.00	0.00	745.34	3.46	0.11	----	----	----	----	----	----	0.11
8.50	0.00	745.32	3.42	0.11	----	----	----	----	----	----	0.11
9.00	0.00	745.30	3.39	0.11	----	----	----	----	----	----	0.11
9.50	0.00	745.28	3.35	0.11	----	----	----	----	----	----	0.11
10.00	0.00	745.27	3.31	0.11	----	----	----	----	----	----	0.11
10.50	0.00	745.25	3.27	0.11	----	----	----	----	----	----	0.11
11.00	0.00	745.23	3.23	0.11	----	----	----	----	----	----	0.11
11.50	0.00	745.21	3.19	0.11	----	----	----	----	----	----	0.11
12.00	0.00	745.20	3.16	0.11	----	----	----	----	----	----	0.11
12.50	0.00	745.18	3.12	0.11	----	----	----	----	----	----	0.11
13.00	0.00	745.16	3.08	0.11	----	----	----	----	----	----	0.11
13.50	0.00	745.15	3.04	0.11	----	----	----	----	----	----	0.11
14.00	0.00	745.13	3.00	0.10	----	----	----	----	----	----	0.10
14.50	0.00	745.11	2.96	0.10	----	----	----	----	----	----	0.10
15.00	0.00	745.10	2.92	0.10	----	----	----	----	----	----	0.10
15.50	0.00	745.08	2.88	0.10	----	----	----	----	----	----	0.10
16.00	0.00	745.06	2.84	0.10	----	----	----	----	----	----	0.10
16.50	0.00	745.05	2.80	0.10	----	----	----	----	----	----	0.10
17.00	0.00	745.03	2.76	0.10	----	----	----	----	----	----	0.10
17.50	0.00	745.02	2.72	0.10	----	----	----	----	----	----	0.10
18.00	0.00	745.00	2.68	0.10	----	----	----	----	----	----	0.10

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
18.50	0.00	744.98	2.63	0.10	----	----	----	----	----	----	0.10
19.00	0.00	744.96	2.58	0.10	----	----	----	----	----	----	0.10
19.50	0.00	744.94	2.53	0.09	----	----	----	----	----	----	0.09
20.00	0.00	744.93	2.48	0.09	----	----	----	----	----	----	0.09
20.50	0.00	744.91	2.43	0.09	----	----	----	----	----	----	0.09
21.00	0.00	744.89	2.38	0.09	----	----	----	----	----	----	0.09
21.50	0.00	744.87	2.32	0.09	----	----	----	----	----	----	0.09
22.00	0.00	744.85	2.26	0.09	----	----	----	----	----	----	0.09
22.50	0.00	744.84	2.20	0.09	----	----	----	----	----	----	0.09
23.00	0.00	744.82	2.14	0.09	----	----	----	----	----	----	0.09
23.50	0.00	744.80	2.08	0.09	----	----	----	----	----	----	0.09
24.00	0.00	744.79	2.02	0.09	----	----	----	----	----	----	0.09
24.50	0.00	744.77	1.96	0.08	----	----	----	----	----	----	0.08
25.00	0.00	744.75	1.89	0.08	----	----	----	----	----	----	0.08
25.50	0.00	744.74	1.83	0.08	----	----	----	----	----	----	0.08
26.00	0.00	744.72	1.77	0.08	----	----	----	----	----	----	0.08
26.50	0.00	744.70	1.71	0.08	----	----	----	----	----	----	0.08
27.00	0.00	744.69	1.66	0.08	----	----	----	----	----	----	0.08
27.50	0.00	744.67	1.60	0.08	----	----	----	----	----	----	0.08
28.00	0.00	744.66	1.55	0.08	----	----	----	----	----	----	0.08
28.50	0.00	744.64	1.49	0.08	----	----	----	----	----	----	0.08
29.00	0.00	744.63	1.44	0.08	----	----	----	----	----	----	0.08
29.50	0.00	744.61	1.39	0.07	----	----	----	----	----	----	0.07
30.00	0.00	744.60	1.34	0.07	----	----	----	----	----	----	0.07
30.50	0.00	744.58	1.28	0.07	----	----	----	----	----	----	0.07
31.00	0.00	744.57	1.22	0.07	----	----	----	----	----	----	0.07
31.50	0.00	744.56	1.17	0.07	----	----	----	----	----	----	0.07
32.00	0.00	744.54	1.11	0.07	----	----	----	----	----	----	0.07
32.50	0.00	744.53	1.06	0.07	----	----	----	----	----	----	0.07
33.00	0.00	744.52	1.01	0.07	----	----	----	----	----	----	0.07
33.50	0.00	744.50	0.96	0.07	----	----	----	----	----	----	0.07
34.00	0.00	744.49	0.92	0.07	----	----	----	----	----	----	0.07
34.50	0.00	744.48	0.88	0.06	----	----	----	----	----	----	0.06
35.00	0.00	744.46	0.84	0.06	----	----	----	----	----	----	0.06
35.50	0.00	744.45	0.80	0.06	----	----	----	----	----	----	0.06
36.00	0.00	744.44	0.76	0.06	----	----	----	----	----	----	0.06
36.50	0.00	744.43	0.73	0.06	----	----	----	----	----	----	0.06
37.00	0.00	744.42	0.69	0.06	----	----	----	----	----	----	0.06
37.50	0.00	744.41	0.65	0.06	----	----	----	----	----	----	0.06
38.00	0.00	744.39	0.62	0.06	----	----	----	----	----	----	0.06
38.50	0.00	744.38	0.59	0.06	----	----	----	----	----	----	0.06
39.00	0.00	744.37	0.57	0.06	----	----	----	----	----	----	0.06
39.50	0.00	744.36	0.54	0.05	----	----	----	----	----	----	0.05
40.00	0.00	744.35	0.51	0.05	----	----	----	----	----	----	0.05
40.50	0.00	744.34	0.49	0.05	----	----	----	----	----	----	0.05
41.00	0.00	744.33	0.46	0.05	----	----	----	----	----	----	0.05
41.50	0.00	744.32	0.44	0.05	----	----	----	----	----	----	0.05
42.00	0.00	744.31	0.41	0.05	----	----	----	----	----	----	0.05
42.50	0.00	744.30	0.39	0.05	----	----	----	----	----	----	0.05

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
43.00	0.00	744.29	0.37	0.05	----	----	----	----	----	----	0.05
43.50	0.00	744.28	0.35	0.04	----	----	----	----	----	----	0.04
44.00	0.00	744.27	0.33	0.04	----	----	----	----	----	----	0.04
44.50	0.00	744.27	0.31	0.04	----	----	----	----	----	----	0.04
45.00	0.00	744.26	0.30	0.04	----	----	----	----	----	----	0.04
45.50	0.00	744.25	0.28	0.04	----	----	----	----	----	----	0.04
46.00	0.00	744.24	0.27	0.04	----	----	----	----	----	----	0.04
46.50	0.00	744.24	0.25	0.03	----	----	----	----	----	----	0.03
47.00	0.00	744.23	0.24	0.03	----	----	----	----	----	----	0.03
47.50	0.00	744.22	0.23	0.03	----	----	----	----	----	----	0.03
48.00	0.00	744.22	0.21	0.03	----	----	----	----	----	----	0.03
48.50	0.00	744.21	0.20	0.03	----	----	----	----	----	----	0.03
49.00	0.00	744.21	0.19	0.03	----	----	----	----	----	----	0.03
49.50	0.00	744.20	0.18	0.03	----	----	----	----	----	----	0.03
50.00	0.00	744.20	0.17	0.02	----	----	----	----	----	----	0.02
50.50	0.00	744.19	0.17	0.02	----	----	----	----	----	----	0.02
51.00	0.00	744.19	0.16	0.02	----	----	----	----	----	----	0.02
51.50	0.00	744.18	0.16	0.02	----	----	----	----	----	----	0.02
52.00	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
52.50	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
53.00	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
53.50	0.00	744.17	0.13	0.02	----	----	----	----	----	----	0.02
54.00	0.00	744.16	0.13	0.02	----	----	----	----	----	----	0.02
54.50	0.00	744.16	0.13	0.02	----	----	----	----	----	----	0.02
55.00	0.00	744.16	0.12	0.02	----	----	----	----	----	----	0.02
55.50	0.00	744.15	0.12	0.02	----	----	----	----	----	----	0.02
56.00	0.00	744.15	0.11	0.02	----	----	----	----	----	----	0.02
56.50	0.00	744.15	0.11	0.01	----	----	----	----	----	----	0.01
57.00	0.00	744.14	0.11	0.01	----	----	----	----	----	----	0.01
57.50	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
58.00	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
58.50	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
59.00	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
59.50	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
60.00	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
60.50	0.00	744.13	0.08	0.01	----	----	----	----	----	----	0.01
61.00	0.00	744.13	0.08	0.01	----	----	----	----	----	----	0.01
61.50	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
62.00	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
62.50	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
63.00	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
63.50	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
64.00	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
64.50	0.00	744.11	0.07	0.01	----	----	----	----	----	----	0.01
65.00	0.00	744.11	0.07	0.01	----	----	----	----	----	----	0.01
65.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
66.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
66.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
67.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
67.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
68.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
68.50	0.00	744.10	0.05	0.01	----	----	----	----	----	----	0.01
69.00	0.00	744.10	0.05	0.01	----	----	----	----	----	----	0.01
69.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
70.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
70.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
71.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
71.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
72.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00

...End

Hydrograph Report

Page 1

English

Hyd. No. 65

10YR 2HR

Hydrograph type = Reservoir
Storm frequency = 10 yrs
Inflow hyd. No. = 46
Max. Elevation = 746.06 ft

Peak discharge = 0.14 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 21,291 cuft

Storage Indication method used.

Total Volume = 20,800 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
0.50	1.55	744.05	0.02	0.00	----	----	----	----	----	----	0.00
1.00	5.94	744.96	2.57	0.10	----	----	----	----	----	----	0.10
1.50	3.06	745.60	3.97	0.13	----	----	----	----	----	----	0.13
2.00	1.94	745.99	4.62	0.14	----	----	----	----	----	----	0.14
2.50	0.00	746.05	4.71	0.14	----	----	----	----	----	----	0.14
3.00	0.00	746.03	4.68	0.14	----	----	----	----	----	----	0.14
3.50	0.00	746.01	4.65	0.14	----	----	----	----	----	----	0.14
4.00	0.00	745.99	4.62	0.14	----	----	----	----	----	----	0.14
4.50	0.00	745.97	4.58	0.14	----	----	----	----	----	----	0.14
5.00	0.00	745.95	4.55	0.14	----	----	----	----	----	----	0.14
5.50	0.00	745.93	4.51	0.14	----	----	----	----	----	----	0.14
6.00	0.00	745.90	4.48	0.14	----	----	----	----	----	----	0.14
6.50	0.00	745.88	4.44	0.14	----	----	----	----	----	----	0.14
7.00	0.00	745.86	4.41	0.14	----	----	----	----	----	----	0.14
7.50	0.00	745.84	4.37	0.14	----	----	----	----	----	----	0.14
8.00	0.00	745.82	4.34	0.14	----	----	----	----	----	----	0.14
8.50	0.00	745.80	4.30	0.13	----	----	----	----	----	----	0.13
9.00	0.00	745.77	4.27	0.13	----	----	----	----	----	----	0.13
9.50	0.00	745.75	4.23	0.13	----	----	----	----	----	----	0.13
10.00	0.00	745.73	4.20	0.13	----	----	----	----	----	----	0.13
10.50	0.00	745.71	4.16	0.13	----	----	----	----	----	----	0.13
11.00	0.00	745.69	4.13	0.13	----	----	----	----	----	----	0.13
11.50	0.00	745.67	4.09	0.13	----	----	----	----	----	----	0.13
12.00	0.00	745.65	4.05	0.13	----	----	----	----	----	----	0.13
12.50	0.00	745.63	4.02	0.13	----	----	----	----	----	----	0.13
13.00	0.00	745.61	3.98	0.13	----	----	----	----	----	----	0.13
13.50	0.00	745.59	3.95	0.13	----	----	----	----	----	----	0.13
14.00	0.00	745.57	3.91	0.12	----	----	----	----	----	----	0.12
14.50	0.00	745.55	3.87	0.12	----	----	----	----	----	----	0.12
15.00	0.00	745.53	3.84	0.12	----	----	----	----	----	----	0.12
15.50	0.00	745.51	3.80	0.12	----	----	----	----	----	----	0.12
16.00	0.00	745.49	3.76	0.12	----	----	----	----	----	----	0.12
16.50	0.00	745.47	3.73	0.12	----	----	----	----	----	----	0.12
17.00	0.00	745.45	3.69	0.12	----	----	----	----	----	----	0.12
17.50	0.00	745.43	3.65	0.12	----	----	----	----	----	----	0.12
18.00	0.00	745.42	3.62	0.12	----	----	----	----	----	----	0.12

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
18.50	0.00	745.40	3.58	0.12	----	----	----	----	----	----	0.12
19.00	0.00	745.38	3.54	0.12	----	----	----	----	----	----	0.12
19.50	0.00	745.36	3.50	0.12	----	----	----	----	----	----	0.12
20.00	0.00	745.34	3.47	0.11	----	----	----	----	----	----	0.11
20.50	0.00	745.32	3.43	0.11	----	----	----	----	----	----	0.11
21.00	0.00	745.31	3.39	0.11	----	----	----	----	----	----	0.11
21.50	0.00	745.29	3.35	0.11	----	----	----	----	----	----	0.11
22.00	0.00	745.27	3.32	0.11	----	----	----	----	----	----	0.11
22.50	0.00	745.25	3.28	0.11	----	----	----	----	----	----	0.11
23.00	0.00	745.23	3.24	0.11	----	----	----	----	----	----	0.11
23.50	0.00	745.22	3.20	0.11	----	----	----	----	----	----	0.11
24.00	0.00	745.20	3.16	0.11	----	----	----	----	----	----	0.11
24.50	0.00	745.18	3.12	0.11	----	----	----	----	----	----	0.11
25.00	0.00	745.17	3.08	0.11	----	----	----	----	----	----	0.11
25.50	0.00	745.15	3.04	0.11	----	----	----	----	----	----	0.11
26.00	0.00	745.13	3.00	0.10	----	----	----	----	----	----	0.10
26.50	0.00	745.12	2.97	0.10	----	----	----	----	----	----	0.10
27.00	0.00	745.10	2.93	0.10	----	----	----	----	----	----	0.10
27.50	0.00	745.08	2.89	0.10	----	----	----	----	----	----	0.10
28.00	0.00	745.07	2.84	0.10	----	----	----	----	----	----	0.10
28.50	0.00	745.05	2.80	0.10	----	----	----	----	----	----	0.10
29.00	0.00	745.04	2.76	0.10	----	----	----	----	----	----	0.10
29.50	0.00	745.02	2.72	0.10	----	----	----	----	----	----	0.10
30.00	0.00	745.00	2.68	0.10	----	----	----	----	----	----	0.10
30.50	0.00	744.99	2.64	0.10	----	----	----	----	----	----	0.10
31.00	0.00	744.97	2.59	0.10	----	----	----	----	----	----	0.10
31.50	0.00	744.95	2.54	0.09	----	----	----	----	----	----	0.09
32.00	0.00	744.93	2.49	0.09	----	----	----	----	----	----	0.09
32.50	0.00	744.91	2.44	0.09	----	----	----	----	----	----	0.09
33.00	0.00	744.89	2.39	0.09	----	----	----	----	----	----	0.09
33.50	0.00	744.87	2.33	0.09	----	----	----	----	----	----	0.09
34.00	0.00	744.86	2.27	0.09	----	----	----	----	----	----	0.09
34.50	0.00	744.84	2.21	0.09	----	----	----	----	----	----	0.09
35.00	0.00	744.82	2.15	0.09	----	----	----	----	----	----	0.09
35.50	0.00	744.81	2.09	0.09	----	----	----	----	----	----	0.09
36.00	0.00	744.79	2.03	0.09	----	----	----	----	----	----	0.09
36.50	0.00	744.77	1.97	0.08	----	----	----	----	----	----	0.08
37.00	0.00	744.76	1.90	0.08	----	----	----	----	----	----	0.08
37.50	0.00	744.74	1.84	0.08	----	----	----	----	----	----	0.08
38.00	0.00	744.72	1.78	0.08	----	----	----	----	----	----	0.08
38.50	0.00	744.71	1.72	0.08	----	----	----	----	----	----	0.08
39.00	0.00	744.69	1.67	0.08	----	----	----	----	----	----	0.08
39.50	0.00	744.68	1.61	0.08	----	----	----	----	----	----	0.08
40.00	0.00	744.66	1.56	0.08	----	----	----	----	----	----	0.08
40.50	0.00	744.65	1.50	0.08	----	----	----	----	----	----	0.08
41.00	0.00	744.63	1.45	0.08	----	----	----	----	----	----	0.08
41.50	0.00	744.62	1.40	0.07	----	----	----	----	----	----	0.07
42.00	0.00	744.60	1.34	0.07	----	----	----	----	----	----	0.07
42.50	0.00	744.59	1.29	0.07	----	----	----	----	----	----	0.07

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
43.00	0.00	744.57	1.23	0.07	----	----	----	----	----	----	0.07
43.50	0.00	744.56	1.18	0.07	----	----	----	----	----	----	0.07
44.00	0.00	744.55	1.12	0.07	----	----	----	----	----	----	0.07
44.50	0.00	744.53	1.07	0.07	----	----	----	----	----	----	0.07
45.00	0.00	744.52	1.02	0.07	----	----	----	----	----	----	0.07
45.50	0.00	744.51	0.97	0.07	----	----	----	----	----	----	0.07
46.00	0.00	744.49	0.92	0.07	----	----	----	----	----	----	0.07
46.50	0.00	744.48	0.88	0.06	----	----	----	----	----	----	0.06
47.00	0.00	744.47	0.84	0.06	----	----	----	----	----	----	0.06
47.50	0.00	744.45	0.81	0.06	----	----	----	----	----	----	0.06
48.00	0.00	744.44	0.77	0.06	----	----	----	----	----	----	0.06
48.50	0.00	744.43	0.73	0.06	----	----	----	----	----	----	0.06
49.00	0.00	744.42	0.70	0.06	----	----	----	----	----	----	0.06
49.50	0.00	744.41	0.66	0.06	----	----	----	----	----	----	0.06
50.00	0.00	744.40	0.63	0.06	----	----	----	----	----	----	0.06
50.50	0.00	744.39	0.60	0.06	----	----	----	----	----	----	0.06
51.00	0.00	744.37	0.57	0.06	----	----	----	----	----	----	0.06
51.50	0.00	744.36	0.54	0.05	----	----	----	----	----	----	0.05
52.00	0.00	744.35	0.52	0.05	----	----	----	----	----	----	0.05
52.50	0.00	744.34	0.49	0.05	----	----	----	----	----	----	0.05
53.00	0.00	744.33	0.47	0.05	----	----	----	----	----	----	0.05
53.50	0.00	744.32	0.44	0.05	----	----	----	----	----	----	0.05
54.00	0.00	744.31	0.42	0.05	----	----	----	----	----	----	0.05
54.50	0.00	744.30	0.39	0.05	----	----	----	----	----	----	0.05
55.00	0.00	744.29	0.37	0.05	----	----	----	----	----	----	0.05
55.50	0.00	744.28	0.35	0.05	----	----	----	----	----	----	0.05
56.00	0.00	744.28	0.33	0.04	----	----	----	----	----	----	0.04
56.50	0.00	744.27	0.32	0.04	----	----	----	----	----	----	0.04
57.00	0.00	744.26	0.30	0.04	----	----	----	----	----	----	0.04
57.50	0.00	744.25	0.28	0.04	----	----	----	----	----	----	0.04
58.00	0.00	744.24	0.27	0.04	----	----	----	----	----	----	0.04
58.50	0.00	744.24	0.25	0.03	----	----	----	----	----	----	0.03
59.00	0.00	744.23	0.24	0.03	----	----	----	----	----	----	0.03
59.50	0.00	744.22	0.23	0.03	----	----	----	----	----	----	0.03
60.00	0.00	744.22	0.22	0.03	----	----	----	----	----	----	0.03
60.50	0.00	744.21	0.20	0.03	----	----	----	----	----	----	0.03
61.00	0.00	744.21	0.19	0.03	----	----	----	----	----	----	0.03
61.50	0.00	744.20	0.18	0.03	----	----	----	----	----	----	0.03
62.00	0.00	744.20	0.17	0.03	----	----	----	----	----	----	0.03
62.50	0.00	744.19	0.17	0.02	----	----	----	----	----	----	0.02
63.00	0.00	744.19	0.16	0.02	----	----	----	----	----	----	0.02
63.50	0.00	744.18	0.16	0.02	----	----	----	----	----	----	0.02
64.00	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
64.50	0.00	744.17	0.15	0.02	----	----	----	----	----	----	0.02
65.00	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
65.50	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
66.00	0.00	744.16	0.13	0.02	----	----	----	----	----	----	0.02
66.50	0.00	744.16	0.13	0.02	----	----	----	----	----	----	0.02
67.00	0.00	744.16	0.12	0.02	----	----	----	----	----	----	0.02

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
67.50	0.00	744.15	0.12	0.02	----	----	----	----	----	----	0.02
68.00	0.00	744.15	0.11	0.02	----	----	----	----	----	----	0.02
68.50	0.00	744.15	0.11	0.01	----	----	----	----	----	----	0.01
69.00	0.00	744.14	0.11	0.01	----	----	----	----	----	----	0.01
69.50	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
70.00	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
70.50	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
71.00	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
71.50	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
72.00	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01

...End

Hydrograph Report

Page 1

English

Hyd. No. 66

10YR 3HR

Hydrograph type = Reservoir
Storm frequency = 10 yrs
Inflow hyd. No. = 47
Max. Elevation = 746.27 ft

Peak discharge = 0.15 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 24,151 cuft

Storage Indication method used.

Total Volume = 23,708 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
1.00	4.11	744.40	0.63	0.06	----	----	----	----	----	----	0.06
1.50	4.42	745.21	3.19	0.11	----	----	----	----	----	----	0.11
2.00	2.39	745.69	4.12	0.13	----	----	----	----	----	----	0.13
2.50	2.11	746.02	4.66	0.14	----	----	----	----	----	----	0.14
3.00	1.38	746.22	4.93	0.15	----	----	----	----	----	----	0.15
3.50	0.00	746.26	4.94	0.15	----	----	----	----	----	----	0.15
4.00	0.00	746.24	4.93	0.15	----	----	----	----	----	----	0.15
4.50	0.00	746.22	4.93	0.15	----	----	----	----	----	----	0.15
5.00	0.00	746.20	4.92	0.15	----	----	----	----	----	----	0.15
5.50	0.00	746.18	4.89	0.15	----	----	----	----	----	----	0.15
6.00	0.00	746.16	4.86	0.15	----	----	----	----	----	----	0.15
6.50	0.00	746.14	4.84	0.15	----	----	----	----	----	----	0.15
7.00	0.00	746.12	4.81	0.15	----	----	----	----	----	----	0.15
7.50	0.00	746.10	4.79	0.15	----	----	----	----	----	----	0.15
8.00	0.00	746.08	4.76	0.15	----	----	----	----	----	----	0.15
8.50	0.00	746.06	4.73	0.14	----	----	----	----	----	----	0.14
9.00	0.00	746.04	4.70	0.14	----	----	----	----	----	----	0.14
9.50	0.00	746.03	4.67	0.14	----	----	----	----	----	----	0.14
10.00	0.00	746.01	4.64	0.14	----	----	----	----	----	----	0.14
10.50	0.00	745.99	4.61	0.14	----	----	----	----	----	----	0.14
11.00	0.00	745.96	4.57	0.14	----	----	----	----	----	----	0.14
11.50	0.00	745.94	4.54	0.14	----	----	----	----	----	----	0.14
12.00	0.00	745.92	4.50	0.14	----	----	----	----	----	----	0.14
12.50	0.00	745.90	4.47	0.14	----	----	----	----	----	----	0.14
13.00	0.00	745.88	4.43	0.14	----	----	----	----	----	----	0.14
13.50	0.00	745.85	4.40	0.14	----	----	----	----	----	----	0.14
14.00	0.00	745.83	4.36	0.14	----	----	----	----	----	----	0.14
14.50	0.00	745.81	4.33	0.13	----	----	----	----	----	----	0.13
15.00	0.00	745.79	4.29	0.13	----	----	----	----	----	----	0.13
15.50	0.00	745.77	4.26	0.13	----	----	----	----	----	----	0.13
16.00	0.00	745.75	4.22	0.13	----	----	----	----	----	----	0.13
16.50	0.00	745.73	4.19	0.13	----	----	----	----	----	----	0.13
17.00	0.00	745.71	4.15	0.13	----	----	----	----	----	----	0.13
17.50	0.00	745.68	4.11	0.13	----	----	----	----	----	----	0.13
18.00	0.00	745.66	4.08	0.13	----	----	----	----	----	----	0.13
18.50	0.00	745.64	4.04	0.13	----	----	----	----	----	----	0.13

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
19.00	0.00	745.62	4.01	0.13	----	----	----	----	----	----	0.13
19.50	0.00	745.60	3.97	0.13	----	----	----	----	----	----	0.13
20.00	0.00	745.58	3.93	0.13	----	----	----	----	----	----	0.13
20.50	0.00	745.56	3.90	0.12	----	----	----	----	----	----	0.12
21.00	0.00	745.54	3.86	0.12	----	----	----	----	----	----	0.12
21.50	0.00	745.52	3.83	0.12	----	----	----	----	----	----	0.12
22.00	0.00	745.50	3.79	0.12	----	----	----	----	----	----	0.12
22.50	0.00	745.49	3.75	0.12	----	----	----	----	----	----	0.12
23.00	0.00	745.47	3.72	0.12	----	----	----	----	----	----	0.12
23.50	0.00	745.45	3.68	0.12	----	----	----	----	----	----	0.12
24.00	0.00	745.43	3.64	0.12	----	----	----	----	----	----	0.12
24.50	0.00	745.41	3.61	0.12	----	----	----	----	----	----	0.12
25.00	0.00	745.39	3.57	0.12	----	----	----	----	----	----	0.12
25.50	0.00	745.37	3.53	0.12	----	----	----	----	----	----	0.12
26.00	0.00	745.35	3.49	0.12	----	----	----	----	----	----	0.12
26.50	0.00	745.34	3.46	0.11	----	----	----	----	----	----	0.11
27.00	0.00	745.32	3.42	0.11	----	----	----	----	----	----	0.11
27.50	0.00	745.30	3.38	0.11	----	----	----	----	----	----	0.11
28.00	0.00	745.28	3.34	0.11	----	----	----	----	----	----	0.11
28.50	0.00	745.26	3.30	0.11	----	----	----	----	----	----	0.11
29.00	0.00	745.25	3.27	0.11	----	----	----	----	----	----	0.11
29.50	0.00	745.23	3.23	0.11	----	----	----	----	----	----	0.11
30.00	0.00	745.21	3.19	0.11	----	----	----	----	----	----	0.11
30.50	0.00	745.19	3.15	0.11	----	----	----	----	----	----	0.11
31.00	0.00	745.18	3.11	0.11	----	----	----	----	----	----	0.11
31.50	0.00	745.16	3.07	0.11	----	----	----	----	----	----	0.11
32.00	0.00	745.14	3.03	0.11	----	----	----	----	----	----	0.11
32.50	0.00	745.13	2.99	0.10	----	----	----	----	----	----	0.10
33.00	0.00	745.11	2.95	0.10	----	----	----	----	----	----	0.10
33.50	0.00	745.09	2.92	0.10	----	----	----	----	----	----	0.10
34.00	0.00	745.08	2.87	0.10	----	----	----	----	----	----	0.10
34.50	0.00	745.06	2.83	0.10	----	----	----	----	----	----	0.10
35.00	0.00	745.05	2.79	0.10	----	----	----	----	----	----	0.10
35.50	0.00	745.03	2.75	0.10	----	----	----	----	----	----	0.10
36.00	0.00	745.01	2.71	0.10	----	----	----	----	----	----	0.10
36.50	0.00	745.00	2.67	0.10	----	----	----	----	----	----	0.10
37.00	0.00	744.98	2.62	0.10	----	----	----	----	----	----	0.10
37.50	0.00	744.96	2.57	0.10	----	----	----	----	----	----	0.10
38.00	0.00	744.94	2.52	0.09	----	----	----	----	----	----	0.09
38.50	0.00	744.92	2.48	0.09	----	----	----	----	----	----	0.09
39.00	0.00	744.91	2.43	0.09	----	----	----	----	----	----	0.09
39.50	0.00	744.89	2.37	0.09	----	----	----	----	----	----	0.09
40.00	0.00	744.87	2.31	0.09	----	----	----	----	----	----	0.09
40.50	0.00	744.85	2.25	0.09	----	----	----	----	----	----	0.09
41.00	0.00	744.83	2.19	0.09	----	----	----	----	----	----	0.09
41.50	0.00	744.82	2.13	0.09	----	----	----	----	----	----	0.09
42.00	0.00	744.80	2.08	0.09	----	----	----	----	----	----	0.09
42.50	0.00	744.78	2.01	0.09	----	----	----	----	----	----	0.09
43.00	0.00	744.77	1.95	0.08	----	----	----	----	----	----	0.08

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
43.50	0.00	744.75	1.89	0.08	----	----	----	----	----	----	0.08
44.00	0.00	744.73	1.83	0.08	----	----	----	----	----	----	0.08
44.50	0.00	744.72	1.77	0.08	----	----	----	----	----	----	0.08
45.00	0.00	744.70	1.71	0.08	----	----	----	----	----	----	0.08
45.50	0.00	744.69	1.65	0.08	----	----	----	----	----	----	0.08
46.00	0.00	744.67	1.59	0.08	----	----	----	----	----	----	0.08
46.50	0.00	744.66	1.54	0.08	----	----	----	----	----	----	0.08
47.00	0.00	744.64	1.49	0.08	----	----	----	----	----	----	0.08
47.50	0.00	744.63	1.43	0.08	----	----	----	----	----	----	0.08
48.00	0.00	744.61	1.38	0.07	----	----	----	----	----	----	0.07
48.50	0.00	744.60	1.33	0.07	----	----	----	----	----	----	0.07
49.00	0.00	744.58	1.27	0.07	----	----	----	----	----	----	0.07
49.50	0.00	744.57	1.22	0.07	----	----	----	----	----	----	0.07
50.00	0.00	744.55	1.16	0.07	----	----	----	----	----	----	0.07
50.50	0.00	744.54	1.11	0.07	----	----	----	----	----	----	0.07
51.00	0.00	744.53	1.06	0.07	----	----	----	----	----	----	0.07
51.50	0.00	744.51	1.00	0.07	----	----	----	----	----	----	0.07
52.00	0.00	744.50	0.95	0.07	----	----	----	----	----	----	0.07
52.50	0.00	744.49	0.91	0.06	----	----	----	----	----	----	0.06
53.00	0.00	744.48	0.87	0.06	----	----	----	----	----	----	0.06
53.50	0.00	744.46	0.83	0.06	----	----	----	----	----	----	0.06
54.00	0.00	744.45	0.80	0.06	----	----	----	----	----	----	0.06
54.50	0.00	744.44	0.76	0.06	----	----	----	----	----	----	0.06
55.00	0.00	744.43	0.72	0.06	----	----	----	----	----	----	0.06
55.50	0.00	744.42	0.69	0.06	----	----	----	----	----	----	0.06
56.00	0.00	744.40	0.65	0.06	----	----	----	----	----	----	0.06
56.50	0.00	744.39	0.62	0.06	----	----	----	----	----	----	0.06
57.00	0.00	744.38	0.59	0.06	----	----	----	----	----	----	0.06
57.50	0.00	744.37	0.56	0.06	----	----	----	----	----	----	0.06
58.00	0.00	744.36	0.54	0.05	----	----	----	----	----	----	0.05
58.50	0.00	744.35	0.51	0.05	----	----	----	----	----	----	0.05
59.00	0.00	744.34	0.48	0.05	----	----	----	----	----	----	0.05
59.50	0.00	744.33	0.46	0.05	----	----	----	----	----	----	0.05
60.00	0.00	744.32	0.43	0.05	----	----	----	----	----	----	0.05
60.50	0.00	744.31	0.41	0.05	----	----	----	----	----	----	0.05
61.00	0.00	744.30	0.38	0.05	----	----	----	----	----	----	0.05
61.50	0.00	744.29	0.36	0.05	----	----	----	----	----	----	0.05
62.00	0.00	744.28	0.35	0.04	----	----	----	----	----	----	0.04
62.50	0.00	744.27	0.33	0.04	----	----	----	----	----	----	0.04
63.00	0.00	744.26	0.31	0.04	----	----	----	----	----	----	0.04
63.50	0.00	744.26	0.30	0.04	----	----	----	----	----	----	0.04
64.00	0.00	744.25	0.28	0.04	----	----	----	----	----	----	0.04
64.50	0.00	744.24	0.27	0.04	----	----	----	----	----	----	0.04
65.00	0.00	744.24	0.25	0.03	----	----	----	----	----	----	0.03
65.50	0.00	744.23	0.24	0.03	----	----	----	----	----	----	0.03
66.00	0.00	744.22	0.22	0.03	----	----	----	----	----	----	0.03
66.50	0.00	744.22	0.21	0.03	----	----	----	----	----	----	0.03
67.00	0.00	744.21	0.20	0.03	----	----	----	----	----	----	0.03
67.50	0.00	744.21	0.19	0.03	----	----	----	----	----	----	0.03

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
68.00	0.00	744.20	0.18	0.03	----	----	----	----	----	----	0.03
68.50	0.00	744.20	0.17	0.02	----	----	----	----	----	----	0.02
69.00	0.00	744.19	0.17	0.02	----	----	----	----	----	----	0.02
69.50	0.00	744.19	0.16	0.02	----	----	----	----	----	----	0.02
70.00	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
70.50	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
71.00	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
71.50	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
72.00	0.00	744.17	0.13	0.02	----	----	----	----	----	----	0.02

...End

Hydrograph Report

Page 1

English

Hyd. No. 67

10YR 6HR

Hydrograph type = Reservoir
Storm frequency = 10 yrs
Inflow hyd. No. = 48
Max. Elevation = 746.66 ft

Peak discharge = 0.19 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 29,490 cuft

Storage Indication method used.

Total Volume = 28,891 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
1.50	1.75	744.24	0.26	0.03	----	----	----	----	----	----	0.03
2.00	2.82	744.72	1.76	0.08	----	----	----	----	----	----	0.08
2.50	2.86	745.21	3.18	0.11	----	----	----	----	----	----	0.11
3.00	2.59	745.63	4.02	0.13	----	----	----	----	----	----	0.13
3.50	1.59	745.92	4.51	0.14	----	----	----	----	----	----	0.14
4.00	1.43	746.11	4.80	0.15	----	----	----	----	----	----	0.15
4.50	1.34	746.28	4.95	0.15	----	----	----	----	----	----	0.15
5.00	1.13	746.43	5.00	0.16	----	----	----	----	----	----	0.16
5.50	0.97	746.55	5.04	0.16	0.01	----	----	----	----	----	0.17
6.00	0.84	746.64	5.07	0.16	0.02	----	----	----	----	----	0.18
6.50	0.00	746.65	5.07	0.16	0.02	----	----	----	----	----	0.18
7.00	0.00	746.62	5.06	0.16	0.02	----	----	----	----	----	0.18
7.50	0.00	746.60	5.05	0.16	0.01	----	----	----	----	----	0.17
8.00	0.00	746.58	5.05	0.16	0.01	----	----	----	----	----	0.17
8.50	0.00	746.55	5.04	0.16	0.01	----	----	----	----	----	0.17
9.00	0.00	746.53	5.03	0.16	0.00	----	----	----	----	----	0.16
9.50	0.00	746.51	5.02	0.16	0.00	----	----	----	----	----	0.16
10.00	0.00	746.49	5.02	0.16	----	----	----	----	----	----	0.16
10.50	0.00	746.47	5.01	0.16	----	----	----	----	----	----	0.16
11.00	0.00	746.45	5.00	0.16	----	----	----	----	----	----	0.16
11.50	0.00	746.43	5.00	0.16	----	----	----	----	----	----	0.16
12.00	0.00	746.41	4.99	0.16	----	----	----	----	----	----	0.16
12.50	0.00	746.39	4.98	0.16	----	----	----	----	----	----	0.16
13.00	0.00	746.36	4.98	0.16	----	----	----	----	----	----	0.16
13.50	0.00	746.34	4.97	0.15	----	----	----	----	----	----	0.15
14.00	0.00	746.32	4.96	0.15	----	----	----	----	----	----	0.15
14.50	0.00	746.30	4.95	0.15	----	----	----	----	----	----	0.15
15.00	0.00	746.28	4.95	0.15	----	----	----	----	----	----	0.15
15.50	0.00	746.26	4.94	0.15	----	----	----	----	----	----	0.15
16.00	0.00	746.24	4.93	0.15	----	----	----	----	----	----	0.15
16.50	0.00	746.22	4.93	0.15	----	----	----	----	----	----	0.15
17.00	0.00	746.20	4.92	0.15	----	----	----	----	----	----	0.15
17.50	0.00	746.18	4.90	0.15	----	----	----	----	----	----	0.15
18.00	0.00	746.17	4.87	0.15	----	----	----	----	----	----	0.15
18.50	0.00	746.15	4.85	0.15	----	----	----	----	----	----	0.15
19.00	0.00	746.13	4.82	0.15	----	----	----	----	----	----	0.15

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
19.50	0.00	746.11	4.79	0.15	----	----	----	----	----	----	0.15
20.00	0.00	746.09	4.76	0.15	----	----	----	----	----	----	0.15
20.50	0.00	746.07	4.74	0.14	----	----	----	----	----	----	0.14
21.00	0.00	746.05	4.71	0.14	----	----	----	----	----	----	0.14
21.50	0.00	746.03	4.68	0.14	----	----	----	----	----	----	0.14
22.00	0.00	746.01	4.65	0.14	----	----	----	----	----	----	0.14
22.50	0.00	745.99	4.62	0.14	----	----	----	----	----	----	0.14
23.00	0.00	745.97	4.58	0.14	----	----	----	----	----	----	0.14
23.50	0.00	745.95	4.55	0.14	----	----	----	----	----	----	0.14
24.00	0.00	745.92	4.51	0.14	----	----	----	----	----	----	0.14
24.50	0.00	745.90	4.48	0.14	----	----	----	----	----	----	0.14
25.00	0.00	745.88	4.44	0.14	----	----	----	----	----	----	0.14
25.50	0.00	745.86	4.41	0.14	----	----	----	----	----	----	0.14
26.00	0.00	745.84	4.37	0.14	----	----	----	----	----	----	0.14
26.50	0.00	745.82	4.34	0.14	----	----	----	----	----	----	0.14
27.00	0.00	745.79	4.30	0.13	----	----	----	----	----	----	0.13
27.50	0.00	745.77	4.27	0.13	----	----	----	----	----	----	0.13
28.00	0.00	745.75	4.23	0.13	----	----	----	----	----	----	0.13
28.50	0.00	745.73	4.20	0.13	----	----	----	----	----	----	0.13
29.00	0.00	745.71	4.16	0.13	----	----	----	----	----	----	0.13
29.50	0.00	745.69	4.12	0.13	----	----	----	----	----	----	0.13
30.00	0.00	745.67	4.09	0.13	----	----	----	----	----	----	0.13
30.50	0.00	745.65	4.05	0.13	----	----	----	----	----	----	0.13
31.00	0.00	745.63	4.02	0.13	----	----	----	----	----	----	0.13
31.50	0.00	745.61	3.98	0.13	----	----	----	----	----	----	0.13
32.00	0.00	745.59	3.94	0.13	----	----	----	----	----	----	0.13
32.50	0.00	745.57	3.91	0.12	----	----	----	----	----	----	0.12
33.00	0.00	745.55	3.87	0.12	----	----	----	----	----	----	0.12
33.50	0.00	745.53	3.84	0.12	----	----	----	----	----	----	0.12
34.00	0.00	745.51	3.80	0.12	----	----	----	----	----	----	0.12
34.50	0.00	745.49	3.76	0.12	----	----	----	----	----	----	0.12
35.00	0.00	745.47	3.73	0.12	----	----	----	----	----	----	0.12
35.50	0.00	745.45	3.69	0.12	----	----	----	----	----	----	0.12
36.00	0.00	745.43	3.65	0.12	----	----	----	----	----	----	0.12
36.50	0.00	745.41	3.62	0.12	----	----	----	----	----	----	0.12
37.00	0.00	745.40	3.58	0.12	----	----	----	----	----	----	0.12
37.50	0.00	745.38	3.54	0.12	----	----	----	----	----	----	0.12
38.00	0.00	745.36	3.50	0.12	----	----	----	----	----	----	0.12
38.50	0.00	745.34	3.47	0.11	----	----	----	----	----	----	0.11
39.00	0.00	745.32	3.43	0.11	----	----	----	----	----	----	0.11
39.50	0.00	745.30	3.39	0.11	----	----	----	----	----	----	0.11
40.00	0.00	745.29	3.35	0.11	----	----	----	----	----	----	0.11
40.50	0.00	745.27	3.31	0.11	----	----	----	----	----	----	0.11
41.00	0.00	745.25	3.28	0.11	----	----	----	----	----	----	0.11
41.50	0.00	745.23	3.24	0.11	----	----	----	----	----	----	0.11
42.00	0.00	745.22	3.20	0.11	----	----	----	----	----	----	0.11
42.50	0.00	745.20	3.16	0.11	----	----	----	----	----	----	0.11
43.00	0.00	745.18	3.12	0.11	----	----	----	----	----	----	0.11
43.50	0.00	745.17	3.08	0.11	----	----	----	----	----	----	0.11

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
44.00	0.00	745.15	3.04	0.11	----	----	----	----	----	----	0.11
44.50	0.00	745.13	3.00	0.10	----	----	----	----	----	----	0.10
45.00	0.00	745.12	2.97	0.10	----	----	----	----	----	----	0.10
45.50	0.00	745.10	2.93	0.10	----	----	----	----	----	----	0.10
46.00	0.00	745.08	2.88	0.10	----	----	----	----	----	----	0.10
46.50	0.00	745.07	2.84	0.10	----	----	----	----	----	----	0.10
47.00	0.00	745.05	2.80	0.10	----	----	----	----	----	----	0.10
47.50	0.00	745.03	2.76	0.10	----	----	----	----	----	----	0.10
48.00	0.00	745.02	2.72	0.10	----	----	----	----	----	----	0.10
48.50	0.00	745.00	2.68	0.10	----	----	----	----	----	----	0.10
49.00	0.00	744.99	2.63	0.10	----	----	----	----	----	----	0.10
49.50	0.00	744.97	2.59	0.10	----	----	----	----	----	----	0.10
50.00	0.00	744.95	2.54	0.09	----	----	----	----	----	----	0.09
50.50	0.00	744.93	2.49	0.09	----	----	----	----	----	----	0.09
51.00	0.00	744.91	2.44	0.09	----	----	----	----	----	----	0.09
51.50	0.00	744.89	2.39	0.09	----	----	----	----	----	----	0.09
52.00	0.00	744.87	2.33	0.09	----	----	----	----	----	----	0.09
52.50	0.00	744.86	2.27	0.09	----	----	----	----	----	----	0.09
53.00	0.00	744.84	2.21	0.09	----	----	----	----	----	----	0.09
53.50	0.00	744.82	2.15	0.09	----	----	----	----	----	----	0.09
54.00	0.00	744.80	2.09	0.09	----	----	----	----	----	----	0.09
54.50	0.00	744.79	2.03	0.09	----	----	----	----	----	----	0.09
55.00	0.00	744.77	1.97	0.08	----	----	----	----	----	----	0.08
55.50	0.00	744.75	1.90	0.08	----	----	----	----	----	----	0.08
56.00	0.00	744.74	1.84	0.08	----	----	----	----	----	----	0.08
56.50	0.00	744.72	1.78	0.08	----	----	----	----	----	----	0.08
57.00	0.00	744.71	1.72	0.08	----	----	----	----	----	----	0.08
57.50	0.00	744.69	1.66	0.08	----	----	----	----	----	----	0.08
58.00	0.00	744.68	1.61	0.08	----	----	----	----	----	----	0.08
58.50	0.00	744.66	1.55	0.08	----	----	----	----	----	----	0.08
59.00	0.00	744.64	1.50	0.08	----	----	----	----	----	----	0.08
59.50	0.00	744.63	1.45	0.08	----	----	----	----	----	----	0.08
60.00	0.00	744.62	1.39	0.07	----	----	----	----	----	----	0.07
60.50	0.00	744.60	1.34	0.07	----	----	----	----	----	----	0.07
61.00	0.00	744.59	1.29	0.07	----	----	----	----	----	----	0.07
61.50	0.00	744.57	1.23	0.07	----	----	----	----	----	----	0.07
62.00	0.00	744.56	1.18	0.07	----	----	----	----	----	----	0.07
62.50	0.00	744.54	1.12	0.07	----	----	----	----	----	----	0.07
63.00	0.00	744.53	1.07	0.07	----	----	----	----	----	----	0.07
63.50	0.00	744.52	1.02	0.07	----	----	----	----	----	----	0.07
64.00	0.00	744.50	0.96	0.07	----	----	----	----	----	----	0.07
64.50	0.00	744.49	0.92	0.07	----	----	----	----	----	----	0.07
65.00	0.00	744.48	0.88	0.06	----	----	----	----	----	----	0.06
65.50	0.00	744.47	0.84	0.06	----	----	----	----	----	----	0.06
66.00	0.00	744.45	0.80	0.06	----	----	----	----	----	----	0.06
66.50	0.00	744.44	0.77	0.06	----	----	----	----	----	----	0.06
67.00	0.00	744.43	0.73	0.06	----	----	----	----	----	----	0.06
67.50	0.00	744.42	0.69	0.06	----	----	----	----	----	----	0.06
68.00	0.00	744.41	0.66	0.06	----	----	----	----	----	----	0.06

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
68.50	0.00	744.40	0.63	0.06	----	----	----	----	----	----	0.06
69.00	0.00	744.38	0.60	0.06	----	----	----	----	----	----	0.06
69.50	0.00	744.37	0.57	0.06	----	----	----	----	----	----	0.06
70.00	0.00	744.36	0.54	0.05	----	----	----	----	----	----	0.05
70.50	0.00	744.35	0.52	0.05	----	----	----	----	----	----	0.05
71.00	0.00	744.34	0.49	0.05	----	----	----	----	----	----	0.05
71.50	0.00	744.33	0.46	0.05	----	----	----	----	----	----	0.05
72.00	0.00	744.32	0.44	0.05	----	----	----	----	----	----	0.05

...End

Hydrograph Report

Page 1

English

Hyd. No. 68

10YR 12HR

Hydrograph type = Reservoir
Storm frequency = 10 yrs
Inflow hyd. No. = 49
Max. Elevation = 746.92 ft

Peak discharge = 0.25 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 33,094 cuft

Storage Indication method used.

Total Volume = 33,321 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
2.00	0.48	744.06	0.03	0.00	----	----	----	----	----	----	0.00
2.50	0.88	744.19	0.17	0.02	----	----	----	----	----	----	0.02
3.00	1.20	744.40	0.63	0.06	----	----	----	----	----	----	0.06
3.50	1.76	744.68	1.64	0.08	----	----	----	----	----	----	0.08
4.00	1.71	745.01	2.69	0.10	----	----	----	----	----	----	0.10
4.50	1.69	745.26	3.30	0.11	----	----	----	----	----	----	0.11
5.00	1.73	745.52	3.81	0.12	----	----	----	----	----	----	0.12
5.50	1.70	745.77	4.26	0.13	----	----	----	----	----	----	0.13
6.00	1.53	746.00	4.63	0.14	----	----	----	----	----	----	0.14
6.50	1.04	746.14	4.83	0.15	----	----	----	----	----	----	0.15
7.00	0.91	746.24	4.93	0.15	----	----	----	----	----	----	0.15
7.50	0.85	746.34	4.97	0.15	----	----	----	----	----	----	0.15
8.00	0.83	746.43	5.00	0.16	----	----	----	----	----	----	0.16
8.50	0.82	746.52	5.03	0.16	0.00	----	----	----	----	----	0.16
9.00	0.79	746.60	5.06	0.16	0.01	----	----	----	----	----	0.18
9.50	0.82	746.68	5.08	0.17	0.03	----	----	----	----	----	0.19
10.00	0.61	746.75	5.10	0.17	0.04	----	----	----	----	----	0.21
10.50	0.61	746.80	5.12	0.17	0.05	----	----	----	----	----	0.22
11.00	0.51	746.85	5.14	0.17	0.06	----	----	----	----	----	0.23
11.50	0.48	746.88	5.15	0.17	0.07	----	----	----	----	----	0.24
12.00	0.50	746.91	5.16	0.17	0.08	----	----	----	----	----	0.25
12.50	0.00	746.90	5.15	0.17	0.07	----	----	----	----	----	0.25
13.00	0.00	746.87	5.14	0.17	0.07	----	----	----	----	----	0.24
13.50	0.00	746.84	5.13	0.17	0.06	----	----	----	----	----	0.23
14.00	0.00	746.81	5.12	0.17	0.05	----	----	----	----	----	0.22
14.50	0.00	746.78	5.11	0.17	0.05	----	----	----	----	----	0.22
15.00	0.00	746.75	5.11	0.17	0.04	----	----	----	----	----	0.21
15.50	0.00	746.73	5.10	0.17	0.04	----	----	----	----	----	0.20
16.00	0.00	746.70	5.09	0.17	0.03	----	----	----	----	----	0.20
16.50	0.00	746.67	5.08	0.17	0.02	----	----	----	----	----	0.19
17.00	0.00	746.65	5.07	0.16	0.02	----	----	----	----	----	0.19
17.50	0.00	746.63	5.06	0.16	0.02	----	----	----	----	----	0.18
18.00	0.00	746.60	5.06	0.16	0.01	----	----	----	----	----	0.18
18.50	0.00	746.58	5.05	0.16	0.01	----	----	----	----	----	0.17
19.00	0.00	746.56	5.04	0.16	0.01	----	----	----	----	----	0.17
19.50	0.00	746.53	5.03	0.16	0.00	----	----	----	----	----	0.17

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
20.00	0.00	746.51	5.03	0.16	0.00	----	----	----	----	----	0.16
20.50	0.00	746.49	5.02	0.16	----	----	----	----	----	----	0.16
21.00	0.00	746.47	5.01	0.16	----	----	----	----	----	----	0.16
21.50	0.00	746.45	5.00	0.16	----	----	----	----	----	----	0.16
22.00	0.00	746.43	5.00	0.16	----	----	----	----	----	----	0.16
22.50	0.00	746.41	4.99	0.16	----	----	----	----	----	----	0.16
23.00	0.00	746.39	4.98	0.16	----	----	----	----	----	----	0.16
23.50	0.00	746.37	4.98	0.16	----	----	----	----	----	----	0.16
24.00	0.00	746.35	4.97	0.15	----	----	----	----	----	----	0.15
24.50	0.00	746.33	4.96	0.15	----	----	----	----	----	----	0.15
25.00	0.00	746.31	4.96	0.15	----	----	----	----	----	----	0.15
25.50	0.00	746.29	4.95	0.15	----	----	----	----	----	----	0.15
26.00	0.00	746.27	4.94	0.15	----	----	----	----	----	----	0.15
26.50	0.00	746.25	4.94	0.15	----	----	----	----	----	----	0.15
27.00	0.00	746.23	4.93	0.15	----	----	----	----	----	----	0.15
27.50	0.00	746.21	4.92	0.15	----	----	----	----	----	----	0.15
28.00	0.00	746.19	4.90	0.15	----	----	----	----	----	----	0.15
28.50	0.00	746.17	4.88	0.15	----	----	----	----	----	----	0.15
29.00	0.00	746.15	4.85	0.15	----	----	----	----	----	----	0.15
29.50	0.00	746.13	4.82	0.15	----	----	----	----	----	----	0.15
30.00	0.00	746.11	4.80	0.15	----	----	----	----	----	----	0.15
30.50	0.00	746.09	4.77	0.15	----	----	----	----	----	----	0.15
31.00	0.00	746.07	4.74	0.14	----	----	----	----	----	----	0.14
31.50	0.00	746.05	4.71	0.14	----	----	----	----	----	----	0.14
32.00	0.00	746.03	4.68	0.14	----	----	----	----	----	----	0.14
32.50	0.00	746.02	4.65	0.14	----	----	----	----	----	----	0.14
33.00	0.00	746.00	4.62	0.14	----	----	----	----	----	----	0.14
33.50	0.00	745.97	4.59	0.14	----	----	----	----	----	----	0.14
34.00	0.00	745.95	4.55	0.14	----	----	----	----	----	----	0.14
34.50	0.00	745.93	4.52	0.14	----	----	----	----	----	----	0.14
35.00	0.00	745.91	4.48	0.14	----	----	----	----	----	----	0.14
35.50	0.00	745.88	4.45	0.14	----	----	----	----	----	----	0.14
36.00	0.00	745.86	4.41	0.14	----	----	----	----	----	----	0.14
36.50	0.00	745.84	4.38	0.14	----	----	----	----	----	----	0.14
37.00	0.00	745.82	4.34	0.14	----	----	----	----	----	----	0.14
37.50	0.00	745.80	4.31	0.13	----	----	----	----	----	----	0.13
38.00	0.00	745.78	4.27	0.13	----	----	----	----	----	----	0.13
38.50	0.00	745.76	4.24	0.13	----	----	----	----	----	----	0.13
39.00	0.00	745.73	4.20	0.13	----	----	----	----	----	----	0.13
39.50	0.00	745.71	4.17	0.13	----	----	----	----	----	----	0.13
40.00	0.00	745.69	4.13	0.13	----	----	----	----	----	----	0.13
40.50	0.00	745.67	4.09	0.13	----	----	----	----	----	----	0.13
41.00	0.00	745.65	4.06	0.13	----	----	----	----	----	----	0.13
41.50	0.00	745.63	4.02	0.13	----	----	----	----	----	----	0.13
42.00	0.00	745.61	3.99	0.13	----	----	----	----	----	----	0.13
42.50	0.00	745.59	3.95	0.13	----	----	----	----	----	----	0.13
43.00	0.00	745.57	3.91	0.12	----	----	----	----	----	----	0.12
43.50	0.00	745.55	3.88	0.12	----	----	----	----	----	----	0.12
44.00	0.00	745.53	3.84	0.12	----	----	----	----	----	----	0.12

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
44.50	0.00	745.51	3.81	0.12	----	----	----	----	----	----	0.12
45.00	0.00	745.49	3.77	0.12	----	----	----	----	----	----	0.12
45.50	0.00	745.47	3.73	0.12	----	----	----	----	----	----	0.12
46.00	0.00	745.46	3.69	0.12	----	----	----	----	----	----	0.12
46.50	0.00	745.44	3.66	0.12	----	----	----	----	----	----	0.12
47.00	0.00	745.42	3.62	0.12	----	----	----	----	----	----	0.12
47.50	0.00	745.40	3.58	0.12	----	----	----	----	----	----	0.12
48.00	0.00	745.38	3.55	0.12	----	----	----	----	----	----	0.12
48.50	0.00	745.36	3.51	0.12	----	----	----	----	----	----	0.12
49.00	0.00	745.34	3.47	0.11	----	----	----	----	----	----	0.11
49.50	0.00	745.33	3.43	0.11	----	----	----	----	----	----	0.11
50.00	0.00	745.31	3.40	0.11	----	----	----	----	----	----	0.11
50.50	0.00	745.29	3.36	0.11	----	----	----	----	----	----	0.11
51.00	0.00	745.27	3.32	0.11	----	----	----	----	----	----	0.11
51.50	0.00	745.25	3.28	0.11	----	----	----	----	----	----	0.11
52.00	0.00	745.24	3.24	0.11	----	----	----	----	----	----	0.11
52.50	0.00	745.22	3.21	0.11	----	----	----	----	----	----	0.11
53.00	0.00	745.20	3.17	0.11	----	----	----	----	----	----	0.11
53.50	0.00	745.19	3.13	0.11	----	----	----	----	----	----	0.11
54.00	0.00	745.17	3.09	0.11	----	----	----	----	----	----	0.11
54.50	0.00	745.15	3.05	0.11	----	----	----	----	----	----	0.11
55.00	0.00	745.13	3.01	0.10	----	----	----	----	----	----	0.10
55.50	0.00	745.12	2.97	0.10	----	----	----	----	----	----	0.10
56.00	0.00	745.10	2.93	0.10	----	----	----	----	----	----	0.10
56.50	0.00	745.09	2.89	0.10	----	----	----	----	----	----	0.10
57.00	0.00	745.07	2.85	0.10	----	----	----	----	----	----	0.10
57.50	0.00	745.05	2.81	0.10	----	----	----	----	----	----	0.10
58.00	0.00	745.04	2.77	0.10	----	----	----	----	----	----	0.10
58.50	0.00	745.02	2.73	0.10	----	----	----	----	----	----	0.10
59.00	0.00	745.01	2.69	0.10	----	----	----	----	----	----	0.10
59.50	0.00	744.99	2.64	0.10	----	----	----	----	----	----	0.10
60.00	0.00	744.97	2.59	0.10	----	----	----	----	----	----	0.10
60.50	0.00	744.95	2.54	0.10	----	----	----	----	----	----	0.10
61.00	0.00	744.93	2.50	0.09	----	----	----	----	----	----	0.09
61.50	0.00	744.91	2.45	0.09	----	----	----	----	----	----	0.09
62.00	0.00	744.90	2.40	0.09	----	----	----	----	----	----	0.09
62.50	0.00	744.88	2.34	0.09	----	----	----	----	----	----	0.09
63.00	0.00	744.86	2.28	0.09	----	----	----	----	----	----	0.09
63.50	0.00	744.84	2.22	0.09	----	----	----	----	----	----	0.09
64.00	0.00	744.82	2.16	0.09	----	----	----	----	----	----	0.09
64.50	0.00	744.81	2.10	0.09	----	----	----	----	----	----	0.09
65.00	0.00	744.79	2.04	0.09	----	----	----	----	----	----	0.09
65.50	0.00	744.77	1.98	0.08	----	----	----	----	----	----	0.08
66.00	0.00	744.76	1.91	0.08	----	----	----	----	----	----	0.08
66.50	0.00	744.74	1.85	0.08	----	----	----	----	----	----	0.08
67.00	0.00	744.72	1.79	0.08	----	----	----	----	----	----	0.08
67.50	0.00	744.71	1.73	0.08	----	----	----	----	----	----	0.08
68.00	0.00	744.69	1.67	0.08	----	----	----	----	----	----	0.08
68.50	0.00	744.68	1.62	0.08	----	----	----	----	----	----	0.08

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
69.00	0.00	744.66	1.56	0.08	----	----	----	----	----	----	0.08
69.50	0.00	744.65	1.51	0.08	----	----	----	----	----	----	0.08
70.00	0.00	744.63	1.46	0.08	----	----	----	----	----	----	0.08
70.50	0.00	744.62	1.40	0.07	----	----	----	----	----	----	0.07
71.00	0.00	744.60	1.35	0.07	----	----	----	----	----	----	0.07
71.50	0.00	744.59	1.30	0.07	----	----	----	----	----	----	0.07
72.00	0.00	744.57	1.24	0.07	----	----	----	----	----	----	0.07

...End

Hydrograph Report

Page 1

English

Hyd. No. 69

10YR 24HR

Hydrograph type = Reservoir
Storm frequency = 10 yrs
Inflow hyd. No. = 50
Max. Elevation = 746.94 ft

Peak discharge = 0.25 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 33,400 cuft

Storage Indication method used.

Total Volume = 36,451 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
4.00	0.39	744.11	0.06	0.01	----	----	----	----	----	----	0.01
4.50	0.48	744.19	0.17	0.02	----	----	----	----	----	----	0.02
5.00	0.60	744.29	0.36	0.05	----	----	----	----	----	----	0.05
5.50	0.69	744.41	0.66	0.06	----	----	----	----	----	----	0.06
6.00	0.75	744.54	1.09	0.07	----	----	----	----	----	----	0.07
6.50	1.01	744.70	1.70	0.08	----	----	----	----	----	----	0.08
7.00	1.07	744.89	2.38	0.09	----	----	----	----	----	----	0.09
7.50	0.99	745.06	2.83	0.10	----	----	----	----	----	----	0.10
8.00	1.02	745.20	3.17	0.11	----	----	----	----	----	----	0.11
8.50	1.02	745.35	3.48	0.12	----	----	----	----	----	----	0.12
9.00	0.99	745.49	3.76	0.12	----	----	----	----	----	----	0.12
9.50	1.01	745.63	4.01	0.13	----	----	----	----	----	----	0.13
10.00	1.01	745.77	4.25	0.13	----	----	----	----	----	----	0.13
10.50	1.02	745.91	4.48	0.14	----	----	----	----	----	----	0.14
11.00	0.92	746.04	4.68	0.14	----	----	----	----	----	----	0.14
11.50	0.88	746.13	4.83	0.15	----	----	----	----	----	----	0.15
12.00	0.89	746.23	4.93	0.15	----	----	----	----	----	----	0.15
12.50	0.60	746.30	4.95	0.15	----	----	----	----	----	----	0.15
13.00	0.60	746.36	4.97	0.16	----	----	----	----	----	----	0.16
13.50	0.53	746.41	4.99	0.16	----	----	----	----	----	----	0.16
14.00	0.52	746.46	5.01	0.16	----	----	----	----	----	----	0.16
14.50	0.51	746.51	5.02	0.16	0.00	----	----	----	----	----	0.16
15.00	0.49	746.55	5.04	0.16	0.01	----	----	----	----	----	0.17
15.50	0.49	746.60	5.05	0.16	0.01	----	----	----	----	----	0.17
16.00	0.48	746.64	5.07	0.16	0.02	----	----	----	----	----	0.18
16.50	0.48	746.67	5.08	0.17	0.02	----	----	----	----	----	0.19
17.00	0.46	746.71	5.09	0.17	0.03	----	----	----	----	----	0.20
17.50	0.45	746.74	5.10	0.17	0.04	----	----	----	----	----	0.21
18.00	0.45	746.78	5.11	0.17	0.05	----	----	----	----	----	0.21
18.50	0.47	746.81	5.12	0.17	0.05	----	----	----	----	----	0.22
19.00	0.47	746.84	5.13	0.17	0.06	----	----	----	----	----	0.23
19.50	0.35	746.87	5.14	0.17	0.07	----	----	----	----	----	0.24
20.00	0.35	746.88	5.15	0.17	0.07	----	----	----	----	----	0.24
20.50	0.35	746.89	5.15	0.17	0.07	----	----	----	----	----	0.24
21.00	0.35	746.91	5.16	0.17	0.08	----	----	----	----	----	0.25
21.50	0.35	746.92	5.16	0.17	0.08	----	----	----	----	----	0.25

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
22.00	0.27	746.93	5.16	0.17	0.08	----	----	----	----	----	0.25
22.50	0.27	746.93	5.16	0.17	0.08	----	----	----	----	----	0.25
23.00	0.28	746.93	5.17	0.17	0.08	----	----	----	----	----	0.25
23.50	0.28	746.94	5.17	0.17	0.08	----	----	----	----	----	0.25
24.00	0.28	746.94	5.17	0.17	0.08	----	----	----	----	----	0.25
24.50	0.00	746.92	5.16	0.17	0.08	----	----	----	----	----	0.25
25.00	0.00	746.89	5.15	0.17	0.07	----	----	----	----	----	0.24
25.50	0.00	746.86	5.14	0.17	0.06	----	----	----	----	----	0.23
26.00	0.00	746.83	5.13	0.17	0.06	----	----	----	----	----	0.23
26.50	0.00	746.80	5.12	0.17	0.05	----	----	----	----	----	0.22
27.00	0.00	746.77	5.11	0.17	0.04	----	----	----	----	----	0.21
27.50	0.00	746.74	5.10	0.17	0.04	----	----	----	----	----	0.21
28.00	0.00	746.71	5.09	0.17	0.03	----	----	----	----	----	0.20
28.50	0.00	746.69	5.08	0.17	0.03	----	----	----	----	----	0.19
29.00	0.00	746.66	5.08	0.17	0.02	----	----	----	----	----	0.19
29.50	0.00	746.64	5.07	0.16	0.02	----	----	----	----	----	0.18
30.00	0.00	746.62	5.06	0.16	0.01	----	----	----	----	----	0.18
30.50	0.00	746.59	5.05	0.16	0.01	----	----	----	----	----	0.17
31.00	0.00	746.57	5.04	0.16	0.01	----	----	----	----	----	0.17
31.50	0.00	746.55	5.04	0.16	0.01	----	----	----	----	----	0.17
32.00	0.00	746.53	5.03	0.16	0.00	----	----	----	----	----	0.16
32.50	0.00	746.50	5.02	0.16	0.00	----	----	----	----	----	0.16
33.00	0.00	746.48	5.02	0.16	----	----	----	----	----	----	0.16
33.50	0.00	746.46	5.01	0.16	----	----	----	----	----	----	0.16
34.00	0.00	746.44	5.00	0.16	----	----	----	----	----	----	0.16
34.50	0.00	746.42	4.99	0.16	----	----	----	----	----	----	0.16
35.00	0.00	746.40	4.99	0.16	----	----	----	----	----	----	0.16
35.50	0.00	746.38	4.98	0.16	----	----	----	----	----	----	0.16
36.00	0.00	746.36	4.97	0.16	----	----	----	----	----	----	0.16
36.50	0.00	746.34	4.97	0.15	----	----	----	----	----	----	0.15
37.00	0.00	746.32	4.96	0.15	----	----	----	----	----	----	0.15
37.50	0.00	746.30	4.95	0.15	----	----	----	----	----	----	0.15
38.00	0.00	746.28	4.95	0.15	----	----	----	----	----	----	0.15
38.50	0.00	746.26	4.94	0.15	----	----	----	----	----	----	0.15
39.00	0.00	746.24	4.93	0.15	----	----	----	----	----	----	0.15
39.50	0.00	746.22	4.93	0.15	----	----	----	----	----	----	0.15
40.00	0.00	746.20	4.92	0.15	----	----	----	----	----	----	0.15
40.50	0.00	746.18	4.89	0.15	----	----	----	----	----	----	0.15
41.00	0.00	746.16	4.86	0.15	----	----	----	----	----	----	0.15
41.50	0.00	746.14	4.84	0.15	----	----	----	----	----	----	0.15
42.00	0.00	746.12	4.81	0.15	----	----	----	----	----	----	0.15
42.50	0.00	746.10	4.79	0.15	----	----	----	----	----	----	0.15
43.00	0.00	746.08	4.76	0.15	----	----	----	----	----	----	0.15
43.50	0.00	746.06	4.73	0.14	----	----	----	----	----	----	0.14
44.00	0.00	746.04	4.70	0.14	----	----	----	----	----	----	0.14
44.50	0.00	746.03	4.67	0.14	----	----	----	----	----	----	0.14
45.00	0.00	746.01	4.64	0.14	----	----	----	----	----	----	0.14
45.50	0.00	745.99	4.61	0.14	----	----	----	----	----	----	0.14
46.00	0.00	745.96	4.57	0.14	----	----	----	----	----	----	0.14

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
46.50	0.00	745.94	4.54	0.14	----	----	----	----	----	----	0.14
47.00	0.00	745.92	4.50	0.14	----	----	----	----	----	----	0.14
47.50	0.00	745.90	4.47	0.14	----	----	----	----	----	----	0.14
48.00	0.00	745.88	4.43	0.14	----	----	----	----	----	----	0.14
48.50	0.00	745.85	4.40	0.14	----	----	----	----	----	----	0.14
49.00	0.00	745.83	4.36	0.14	----	----	----	----	----	----	0.14
49.50	0.00	745.81	4.33	0.13	----	----	----	----	----	----	0.13
50.00	0.00	745.79	4.29	0.13	----	----	----	----	----	----	0.13
50.50	0.00	745.77	4.26	0.13	----	----	----	----	----	----	0.13
51.00	0.00	745.75	4.22	0.13	----	----	----	----	----	----	0.13
51.50	0.00	745.73	4.19	0.13	----	----	----	----	----	----	0.13
52.00	0.00	745.71	4.15	0.13	----	----	----	----	----	----	0.13
52.50	0.00	745.68	4.11	0.13	----	----	----	----	----	----	0.13
53.00	0.00	745.66	4.08	0.13	----	----	----	----	----	----	0.13
53.50	0.00	745.64	4.04	0.13	----	----	----	----	----	----	0.13
54.00	0.00	745.62	4.01	0.13	----	----	----	----	----	----	0.13
54.50	0.00	745.60	3.97	0.13	----	----	----	----	----	----	0.13
55.00	0.00	745.58	3.93	0.13	----	----	----	----	----	----	0.13
55.50	0.00	745.56	3.90	0.12	----	----	----	----	----	----	0.12
56.00	0.00	745.54	3.86	0.12	----	----	----	----	----	----	0.12
56.50	0.00	745.52	3.83	0.12	----	----	----	----	----	----	0.12
57.00	0.00	745.50	3.79	0.12	----	----	----	----	----	----	0.12
57.50	0.00	745.49	3.75	0.12	----	----	----	----	----	----	0.12
58.00	0.00	745.47	3.72	0.12	----	----	----	----	----	----	0.12
58.50	0.00	745.45	3.68	0.12	----	----	----	----	----	----	0.12
59.00	0.00	745.43	3.64	0.12	----	----	----	----	----	----	0.12
59.50	0.00	745.41	3.61	0.12	----	----	----	----	----	----	0.12
60.00	0.00	745.39	3.57	0.12	----	----	----	----	----	----	0.12
60.50	0.00	745.37	3.53	0.12	----	----	----	----	----	----	0.12
61.00	0.00	745.35	3.49	0.12	----	----	----	----	----	----	0.12
61.50	0.00	745.34	3.46	0.11	----	----	----	----	----	----	0.11
62.00	0.00	745.32	3.42	0.11	----	----	----	----	----	----	0.11
62.50	0.00	745.30	3.38	0.11	----	----	----	----	----	----	0.11
63.00	0.00	745.28	3.34	0.11	----	----	----	----	----	----	0.11
63.50	0.00	745.26	3.30	0.11	----	----	----	----	----	----	0.11
64.00	0.00	745.25	3.27	0.11	----	----	----	----	----	----	0.11
64.50	0.00	745.23	3.23	0.11	----	----	----	----	----	----	0.11
65.00	0.00	745.21	3.19	0.11	----	----	----	----	----	----	0.11
65.50	0.00	745.19	3.15	0.11	----	----	----	----	----	----	0.11
66.00	0.00	745.18	3.11	0.11	----	----	----	----	----	----	0.11
66.50	0.00	745.16	3.07	0.11	----	----	----	----	----	----	0.11
67.00	0.00	745.14	3.03	0.11	----	----	----	----	----	----	0.11
67.50	0.00	745.13	2.99	0.10	----	----	----	----	----	----	0.10
68.00	0.00	745.11	2.95	0.10	----	----	----	----	----	----	0.10
68.50	0.00	745.09	2.92	0.10	----	----	----	----	----	----	0.10
69.00	0.00	745.08	2.87	0.10	----	----	----	----	----	----	0.10
69.50	0.00	745.06	2.83	0.10	----	----	----	----	----	----	0.10
70.00	0.00	745.05	2.79	0.10	----	----	----	----	----	----	0.10
70.50	0.00	745.03	2.75	0.10	----	----	----	----	----	----	0.10

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
71.00	0.00	745.01	2.71	0.10	----	----	----	----	----	----	0.10
71.50	0.00	745.00	2.67	0.10	----	----	----	----	----	----	0.10
72.00	0.00	744.98	2.62	0.10	----	----	----	----	----	----	0.10

...End

Hydrograph Report

Page 1

English

Hyd. No. 70

100YR 1HR

Hydrograph type = Reservoir
Storm frequency = 100 yrs
Inflow hyd. No. = 51
Max. Elevation = 746.55 ft

Peak discharge = 0.17 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 28,042 cuft

Storage Indication method used.

Total Volume = 26,589 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
0.50	14.18	744.87	2.31	0.09	----	----	----	----	----	----	0.09
1.00	5.85	746.36	4.97	0.15	----	----	----	----	----	----	0.15
1.50	0.00	746.54	5.04	0.16	0.01	----	----	----	----	----	0.17
2.00	0.00	746.52	5.03	0.16	0.00	----	----	----	----	----	0.16
2.50	0.00	746.50	5.02	0.16	0.00	----	----	----	----	----	0.16
3.00	0.00	746.48	5.01	0.16	----	----	----	----	----	----	0.16
3.50	0.00	746.46	5.01	0.16	----	----	----	----	----	----	0.16
4.00	0.00	746.44	5.00	0.16	----	----	----	----	----	----	0.16
4.50	0.00	746.42	4.99	0.16	----	----	----	----	----	----	0.16
5.00	0.00	746.40	4.99	0.16	----	----	----	----	----	----	0.16
5.50	0.00	746.38	4.98	0.16	----	----	----	----	----	----	0.16
6.00	0.00	746.36	4.97	0.15	----	----	----	----	----	----	0.15
6.50	0.00	746.34	4.97	0.15	----	----	----	----	----	----	0.15
7.00	0.00	746.31	4.96	0.15	----	----	----	----	----	----	0.15
7.50	0.00	746.29	4.95	0.15	----	----	----	----	----	----	0.15
8.00	0.00	746.27	4.94	0.15	----	----	----	----	----	----	0.15
8.50	0.00	746.25	4.94	0.15	----	----	----	----	----	----	0.15
9.00	0.00	746.23	4.93	0.15	----	----	----	----	----	----	0.15
9.50	0.00	746.22	4.92	0.15	----	----	----	----	----	----	0.15
10.00	0.00	746.20	4.91	0.15	----	----	----	----	----	----	0.15
10.50	0.00	746.18	4.89	0.15	----	----	----	----	----	----	0.15
11.00	0.00	746.16	4.86	0.15	----	----	----	----	----	----	0.15
11.50	0.00	746.14	4.83	0.15	----	----	----	----	----	----	0.15
12.00	0.00	746.12	4.81	0.15	----	----	----	----	----	----	0.15
12.50	0.00	746.10	4.78	0.15	----	----	----	----	----	----	0.15
13.00	0.00	746.08	4.75	0.15	----	----	----	----	----	----	0.15
13.50	0.00	746.06	4.72	0.14	----	----	----	----	----	----	0.14
14.00	0.00	746.04	4.69	0.14	----	----	----	----	----	----	0.14
14.50	0.00	746.02	4.66	0.14	----	----	----	----	----	----	0.14
15.00	0.00	746.00	4.64	0.14	----	----	----	----	----	----	0.14
15.50	0.00	745.98	4.60	0.14	----	----	----	----	----	----	0.14
16.00	0.00	745.96	4.57	0.14	----	----	----	----	----	----	0.14
16.50	0.00	745.94	4.53	0.14	----	----	----	----	----	----	0.14
17.00	0.00	745.91	4.50	0.14	----	----	----	----	----	----	0.14
17.50	0.00	745.89	4.46	0.14	----	----	----	----	----	----	0.14
18.00	0.00	745.87	4.43	0.14	----	----	----	----	----	----	0.14

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
18.50	0.00	745.85	4.39	0.14	----	----	----	----	----	----	0.14
19.00	0.00	745.83	4.36	0.14	----	----	----	----	----	----	0.14
19.50	0.00	745.81	4.32	0.13	----	----	----	----	----	----	0.13
20.00	0.00	745.79	4.29	0.13	----	----	----	----	----	----	0.13
20.50	0.00	745.76	4.25	0.13	----	----	----	----	----	----	0.13
21.00	0.00	745.74	4.21	0.13	----	----	----	----	----	----	0.13
21.50	0.00	745.72	4.18	0.13	----	----	----	----	----	----	0.13
22.00	0.00	745.70	4.14	0.13	----	----	----	----	----	----	0.13
22.50	0.00	745.68	4.11	0.13	----	----	----	----	----	----	0.13
23.00	0.00	745.66	4.07	0.13	----	----	----	----	----	----	0.13
23.50	0.00	745.64	4.04	0.13	----	----	----	----	----	----	0.13
24.00	0.00	745.62	4.00	0.13	----	----	----	----	----	----	0.13
24.50	0.00	745.60	3.97	0.13	----	----	----	----	----	----	0.13
25.00	0.00	745.58	3.93	0.13	----	----	----	----	----	----	0.13
25.50	0.00	745.56	3.89	0.12	----	----	----	----	----	----	0.12
26.00	0.00	745.54	3.86	0.12	----	----	----	----	----	----	0.12
26.50	0.00	745.52	3.82	0.12	----	----	----	----	----	----	0.12
27.00	0.00	745.50	3.78	0.12	----	----	----	----	----	----	0.12
27.50	0.00	745.48	3.75	0.12	----	----	----	----	----	----	0.12
28.00	0.00	745.46	3.71	0.12	----	----	----	----	----	----	0.12
28.50	0.00	745.44	3.67	0.12	----	----	----	----	----	----	0.12
29.00	0.00	745.42	3.64	0.12	----	----	----	----	----	----	0.12
29.50	0.00	745.41	3.60	0.12	----	----	----	----	----	----	0.12
30.00	0.00	745.39	3.56	0.12	----	----	----	----	----	----	0.12
30.50	0.00	745.37	3.52	0.12	----	----	----	----	----	----	0.12
31.00	0.00	745.35	3.49	0.12	----	----	----	----	----	----	0.12
31.50	0.00	745.33	3.45	0.11	----	----	----	----	----	----	0.11
32.00	0.00	745.31	3.41	0.11	----	----	----	----	----	----	0.11
32.50	0.00	745.30	3.37	0.11	----	----	----	----	----	----	0.11
33.00	0.00	745.28	3.34	0.11	----	----	----	----	----	----	0.11
33.50	0.00	745.26	3.30	0.11	----	----	----	----	----	----	0.11
34.00	0.00	745.24	3.26	0.11	----	----	----	----	----	----	0.11
34.50	0.00	745.23	3.22	0.11	----	----	----	----	----	----	0.11
35.00	0.00	745.21	3.18	0.11	----	----	----	----	----	----	0.11
35.50	0.00	745.19	3.14	0.11	----	----	----	----	----	----	0.11
36.00	0.00	745.17	3.10	0.11	----	----	----	----	----	----	0.11
36.50	0.00	745.16	3.06	0.11	----	----	----	----	----	----	0.11
37.00	0.00	745.14	3.03	0.11	----	----	----	----	----	----	0.11
37.50	0.00	745.12	2.99	0.10	----	----	----	----	----	----	0.10
38.00	0.00	745.11	2.95	0.10	----	----	----	----	----	----	0.10
38.50	0.00	745.09	2.91	0.10	----	----	----	----	----	----	0.10
39.00	0.00	745.08	2.87	0.10	----	----	----	----	----	----	0.10
39.50	0.00	745.06	2.83	0.10	----	----	----	----	----	----	0.10
40.00	0.00	745.04	2.78	0.10	----	----	----	----	----	----	0.10
40.50	0.00	745.03	2.74	0.10	----	----	----	----	----	----	0.10
41.00	0.00	745.01	2.70	0.10	----	----	----	----	----	----	0.10
41.50	0.00	745.00	2.66	0.10	----	----	----	----	----	----	0.10
42.00	0.00	744.98	2.61	0.10	----	----	----	----	----	----	0.10
42.50	0.00	744.96	2.56	0.10	----	----	----	----	----	----	0.10

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
43.00	0.00	744.94	2.51	0.09	----	----	----	----	----	----	0.09
43.50	0.00	744.92	2.47	0.09	----	----	----	----	----	----	0.09
44.00	0.00	744.90	2.42	0.09	----	----	----	----	----	----	0.09
44.50	0.00	744.88	2.36	0.09	----	----	----	----	----	----	0.09
45.00	0.00	744.87	2.30	0.09	----	----	----	----	----	----	0.09
45.50	0.00	744.85	2.24	0.09	----	----	----	----	----	----	0.09
46.00	0.00	744.83	2.18	0.09	----	----	----	----	----	----	0.09
46.50	0.00	744.81	2.12	0.09	----	----	----	----	----	----	0.09
47.00	0.00	744.80	2.06	0.09	----	----	----	----	----	----	0.09
47.50	0.00	744.78	2.00	0.09	----	----	----	----	----	----	0.09
48.00	0.00	744.76	1.94	0.08	----	----	----	----	----	----	0.08
48.50	0.00	744.75	1.88	0.08	----	----	----	----	----	----	0.08
49.00	0.00	744.73	1.81	0.08	----	----	----	----	----	----	0.08
49.50	0.00	744.71	1.75	0.08	----	----	----	----	----	----	0.08
50.00	0.00	744.70	1.69	0.08	----	----	----	----	----	----	0.08
50.50	0.00	744.68	1.64	0.08	----	----	----	----	----	----	0.08
51.00	0.00	744.67	1.58	0.08	----	----	----	----	----	----	0.08
51.50	0.00	744.65	1.53	0.08	----	----	----	----	----	----	0.08
52.00	0.00	744.64	1.48	0.08	----	----	----	----	----	----	0.08
52.50	0.00	744.62	1.42	0.07	----	----	----	----	----	----	0.07
53.00	0.00	744.61	1.37	0.07	----	----	----	----	----	----	0.07
53.50	0.00	744.59	1.32	0.07	----	----	----	----	----	----	0.07
54.00	0.00	744.58	1.26	0.07	----	----	----	----	----	----	0.07
54.50	0.00	744.57	1.21	0.07	----	----	----	----	----	----	0.07
55.00	0.00	744.55	1.15	0.07	----	----	----	----	----	----	0.07
55.50	0.00	744.54	1.10	0.07	----	----	----	----	----	----	0.07
56.00	0.00	744.53	1.05	0.07	----	----	----	----	----	----	0.07
56.50	0.00	744.51	0.99	0.07	----	----	----	----	----	----	0.07
57.00	0.00	744.50	0.94	0.07	----	----	----	----	----	----	0.07
57.50	0.00	744.49	0.90	0.06	----	----	----	----	----	----	0.06
58.00	0.00	744.47	0.86	0.06	----	----	----	----	----	----	0.06
58.50	0.00	744.46	0.83	0.06	----	----	----	----	----	----	0.06
59.00	0.00	744.45	0.79	0.06	----	----	----	----	----	----	0.06
59.50	0.00	744.44	0.75	0.06	----	----	----	----	----	----	0.06
60.00	0.00	744.43	0.71	0.06	----	----	----	----	----	----	0.06
60.50	0.00	744.41	0.68	0.06	----	----	----	----	----	----	0.06
61.00	0.00	744.40	0.64	0.06	----	----	----	----	----	----	0.06
61.50	0.00	744.39	0.61	0.06	----	----	----	----	----	----	0.06
62.00	0.00	744.38	0.59	0.06	----	----	----	----	----	----	0.06
62.50	0.00	744.37	0.56	0.05	----	----	----	----	----	----	0.05
63.00	0.00	744.36	0.53	0.05	----	----	----	----	----	----	0.05
63.50	0.00	744.35	0.51	0.05	----	----	----	----	----	----	0.05
64.00	0.00	744.34	0.48	0.05	----	----	----	----	----	----	0.05
64.50	0.00	744.33	0.45	0.05	----	----	----	----	----	----	0.05
65.00	0.00	744.32	0.43	0.05	----	----	----	----	----	----	0.05
65.50	0.00	744.31	0.40	0.05	----	----	----	----	----	----	0.05
66.00	0.00	744.30	0.38	0.05	----	----	----	----	----	----	0.05
66.50	0.00	744.29	0.36	0.05	----	----	----	----	----	----	0.05
67.00	0.00	744.28	0.34	0.04	----	----	----	----	----	----	0.04

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
67.50	0.00	744.27	0.33	0.04	----	----	----	----	----	----	0.04
68.00	0.00	744.26	0.31	0.04	----	----	----	----	----	----	0.04
68.50	0.00	744.26	0.29	0.04	----	----	----	----	----	----	0.04
69.00	0.00	744.25	0.28	0.04	----	----	----	----	----	----	0.04
69.50	0.00	744.24	0.26	0.04	----	----	----	----	----	----	0.04
70.00	0.00	744.23	0.25	0.03	----	----	----	----	----	----	0.03
70.50	0.00	744.23	0.24	0.03	----	----	----	----	----	----	0.03
71.00	0.00	744.22	0.22	0.03	----	----	----	----	----	----	0.03
71.50	0.00	744.22	0.21	0.03	----	----	----	----	----	----	0.03
72.00	0.00	744.21	0.20	0.03	----	----	----	----	----	----	0.03

...End

Hydrograph Report

Page 1

English

Hyd. No. 71

100YR 2HR

Hydrograph type = Reservoir
Storm frequency = 100 yrs
Inflow hyd. No. = 52
Max. Elevation = 747.11 ft

Peak discharge = 0.33 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 36,020 cuft

Storage Indication method used.

Total Volume = 33,511 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
0.50	3.76	744.14	0.10	0.01	----	----	----	----	----	----	0.01
1.00	9.73	745.63	4.02	0.13	----	----	----	----	----	----	0.13
1.50	4.80	746.54	5.03	0.16	0.00	----	----	----	----	----	0.17
2.00	3.00	747.04	5.20	0.18	0.10	----	----	----	----	----	0.27
2.50	0.00	747.10	5.22	0.18	0.11	----	----	----	----	----	0.29
3.00	0.00	747.07	5.21	0.18	0.10	----	----	----	----	----	0.28
3.50	0.00	747.04	5.20	0.18	0.10	----	----	----	----	----	0.27
4.00	0.00	747.01	5.19	0.17	0.09	----	----	----	----	----	0.27
4.50	0.00	746.97	5.18	0.17	0.09	----	----	----	----	----	0.26
5.00	0.00	746.94	5.17	0.17	0.08	----	----	----	----	----	0.25
5.50	0.00	746.91	5.16	0.17	0.07	----	----	----	----	----	0.25
6.00	0.00	746.87	5.15	0.17	0.07	----	----	----	----	----	0.24
6.50	0.00	746.84	5.14	0.17	0.06	----	----	----	----	----	0.23
7.00	0.00	746.81	5.13	0.17	0.05	----	----	----	----	----	0.22
7.50	0.00	746.78	5.12	0.17	0.05	----	----	----	----	----	0.22
8.00	0.00	746.76	5.11	0.17	0.04	----	----	----	----	----	0.21
8.50	0.00	746.73	5.10	0.17	0.04	----	----	----	----	----	0.20
9.00	0.00	746.70	5.09	0.17	0.03	----	----	----	----	----	0.20
9.50	0.00	746.68	5.08	0.17	0.03	----	----	----	----	----	0.19
10.00	0.00	746.65	5.07	0.16	0.02	----	----	----	----	----	0.19
10.50	0.00	746.63	5.06	0.16	0.02	----	----	----	----	----	0.18
11.00	0.00	746.61	5.06	0.16	0.01	----	----	----	----	----	0.18
11.50	0.00	746.58	5.05	0.16	0.01	----	----	----	----	----	0.17
12.00	0.00	746.56	5.04	0.16	0.01	----	----	----	----	----	0.17
12.50	0.00	746.54	5.03	0.16	0.00	----	----	----	----	----	0.17
13.00	0.00	746.52	5.03	0.16	0.00	----	----	----	----	----	0.16
13.50	0.00	746.50	5.02	0.16	----	----	----	----	----	----	0.16
14.00	0.00	746.47	5.01	0.16	----	----	----	----	----	----	0.16
14.50	0.00	746.45	5.01	0.16	----	----	----	----	----	----	0.16
15.00	0.00	746.43	5.00	0.16	----	----	----	----	----	----	0.16
15.50	0.00	746.41	4.99	0.16	----	----	----	----	----	----	0.16
16.00	0.00	746.39	4.98	0.16	----	----	----	----	----	----	0.16
16.50	0.00	746.37	4.98	0.16	----	----	----	----	----	----	0.16
17.00	0.00	746.35	4.97	0.15	----	----	----	----	----	----	0.15
17.50	0.00	746.33	4.96	0.15	----	----	----	----	----	----	0.15
18.00	0.00	746.31	4.96	0.15	----	----	----	----	----	----	0.15

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
18.50	0.00	746.29	4.95	0.15	----	----	----	----	----	----	0.15
19.00	0.00	746.27	4.94	0.15	----	----	----	----	----	----	0.15
19.50	0.00	746.25	4.94	0.15	----	----	----	----	----	----	0.15
20.00	0.00	746.23	4.93	0.15	----	----	----	----	----	----	0.15
20.50	0.00	746.21	4.92	0.15	----	----	----	----	----	----	0.15
21.00	0.00	746.19	4.91	0.15	----	----	----	----	----	----	0.15
21.50	0.00	746.17	4.88	0.15	----	----	----	----	----	----	0.15
22.00	0.00	746.15	4.85	0.15	----	----	----	----	----	----	0.15
22.50	0.00	746.13	4.83	0.15	----	----	----	----	----	----	0.15
23.00	0.00	746.11	4.80	0.15	----	----	----	----	----	----	0.15
23.50	0.00	746.09	4.77	0.15	----	----	----	----	----	----	0.15
24.00	0.00	746.07	4.74	0.14	----	----	----	----	----	----	0.14
24.50	0.00	746.06	4.72	0.14	----	----	----	----	----	----	0.14
25.00	0.00	746.04	4.69	0.14	----	----	----	----	----	----	0.14
25.50	0.00	746.02	4.66	0.14	----	----	----	----	----	----	0.14
26.00	0.00	746.00	4.63	0.14	----	----	----	----	----	----	0.14
26.50	0.00	745.98	4.59	0.14	----	----	----	----	----	----	0.14
27.00	0.00	745.95	4.56	0.14	----	----	----	----	----	----	0.14
27.50	0.00	745.93	4.52	0.14	----	----	----	----	----	----	0.14
28.00	0.00	745.91	4.49	0.14	----	----	----	----	----	----	0.14
28.50	0.00	745.89	4.45	0.14	----	----	----	----	----	----	0.14
29.00	0.00	745.87	4.42	0.14	----	----	----	----	----	----	0.14
29.50	0.00	745.84	4.38	0.14	----	----	----	----	----	----	0.14
30.00	0.00	745.82	4.35	0.14	----	----	----	----	----	----	0.14
30.50	0.00	745.80	4.31	0.13	----	----	----	----	----	----	0.13
31.00	0.00	745.78	4.28	0.13	----	----	----	----	----	----	0.13
31.50	0.00	745.76	4.24	0.13	----	----	----	----	----	----	0.13
32.00	0.00	745.74	4.21	0.13	----	----	----	----	----	----	0.13
32.50	0.00	745.72	4.17	0.13	----	----	----	----	----	----	0.13
33.00	0.00	745.70	4.14	0.13	----	----	----	----	----	----	0.13
33.50	0.00	745.68	4.10	0.13	----	----	----	----	----	----	0.13
34.00	0.00	745.66	4.06	0.13	----	----	----	----	----	----	0.13
34.50	0.00	745.64	4.03	0.13	----	----	----	----	----	----	0.13
35.00	0.00	745.61	3.99	0.13	----	----	----	----	----	----	0.13
35.50	0.00	745.59	3.96	0.13	----	----	----	----	----	----	0.13
36.00	0.00	745.57	3.92	0.13	----	----	----	----	----	----	0.13
36.50	0.00	745.56	3.88	0.12	----	----	----	----	----	----	0.12
37.00	0.00	745.54	3.85	0.12	----	----	----	----	----	----	0.12
37.50	0.00	745.52	3.81	0.12	----	----	----	----	----	----	0.12
38.00	0.00	745.50	3.77	0.12	----	----	----	----	----	----	0.12
38.50	0.00	745.48	3.74	0.12	----	----	----	----	----	----	0.12
39.00	0.00	745.46	3.70	0.12	----	----	----	----	----	----	0.12
39.50	0.00	745.44	3.66	0.12	----	----	----	----	----	----	0.12
40.00	0.00	745.42	3.63	0.12	----	----	----	----	----	----	0.12
40.50	0.00	745.40	3.59	0.12	----	----	----	----	----	----	0.12
41.00	0.00	745.38	3.55	0.12	----	----	----	----	----	----	0.12
41.50	0.00	745.36	3.51	0.12	----	----	----	----	----	----	0.12
42.00	0.00	745.35	3.48	0.11	----	----	----	----	----	----	0.11
42.50	0.00	745.33	3.44	0.11	----	----	----	----	----	----	0.11

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
43.00	0.00	745.31	3.40	0.11	----	----	----	----	----	----	0.11
43.50	0.00	745.29	3.36	0.11	----	----	----	----	----	----	0.11
44.00	0.00	745.27	3.33	0.11	----	----	----	----	----	----	0.11
44.50	0.00	745.26	3.29	0.11	----	----	----	----	----	----	0.11
45.00	0.00	745.24	3.25	0.11	----	----	----	----	----	----	0.11
45.50	0.00	745.22	3.21	0.11	----	----	----	----	----	----	0.11
46.00	0.00	745.20	3.17	0.11	----	----	----	----	----	----	0.11
46.50	0.00	745.19	3.13	0.11	----	----	----	----	----	----	0.11
47.00	0.00	745.17	3.09	0.11	----	----	----	----	----	----	0.11
47.50	0.00	745.15	3.05	0.11	----	----	----	----	----	----	0.11
48.00	0.00	745.14	3.02	0.10	----	----	----	----	----	----	0.10
48.50	0.00	745.12	2.98	0.10	----	----	----	----	----	----	0.10
49.00	0.00	745.10	2.94	0.10	----	----	----	----	----	----	0.10
49.50	0.00	745.09	2.90	0.10	----	----	----	----	----	----	0.10
50.00	0.00	745.07	2.86	0.10	----	----	----	----	----	----	0.10
50.50	0.00	745.06	2.82	0.10	----	----	----	----	----	----	0.10
51.00	0.00	745.04	2.77	0.10	----	----	----	----	----	----	0.10
51.50	0.00	745.02	2.73	0.10	----	----	----	----	----	----	0.10
52.00	0.00	745.01	2.69	0.10	----	----	----	----	----	----	0.10
52.50	0.00	744.99	2.65	0.10	----	----	----	----	----	----	0.10
53.00	0.00	744.97	2.60	0.10	----	----	----	----	----	----	0.10
53.50	0.00	744.95	2.55	0.10	----	----	----	----	----	----	0.10
54.00	0.00	744.93	2.50	0.09	----	----	----	----	----	----	0.09
54.50	0.00	744.92	2.46	0.09	----	----	----	----	----	----	0.09
55.00	0.00	744.90	2.41	0.09	----	----	----	----	----	----	0.09
55.50	0.00	744.88	2.35	0.09	----	----	----	----	----	----	0.09
56.00	0.00	744.86	2.28	0.09	----	----	----	----	----	----	0.09
56.50	0.00	744.84	2.23	0.09	----	----	----	----	----	----	0.09
57.00	0.00	744.83	2.17	0.09	----	----	----	----	----	----	0.09
57.50	0.00	744.81	2.11	0.09	----	----	----	----	----	----	0.09
58.00	0.00	744.79	2.05	0.09	----	----	----	----	----	----	0.09
58.50	0.00	744.78	1.98	0.08	----	----	----	----	----	----	0.08
59.00	0.00	744.76	1.92	0.08	----	----	----	----	----	----	0.08
59.50	0.00	744.74	1.86	0.08	----	----	----	----	----	----	0.08
60.00	0.00	744.73	1.80	0.08	----	----	----	----	----	----	0.08
60.50	0.00	744.71	1.74	0.08	----	----	----	----	----	----	0.08
61.00	0.00	744.70	1.68	0.08	----	----	----	----	----	----	0.08
61.50	0.00	744.68	1.63	0.08	----	----	----	----	----	----	0.08
62.00	0.00	744.66	1.57	0.08	----	----	----	----	----	----	0.08
62.50	0.00	744.65	1.52	0.08	----	----	----	----	----	----	0.08
63.00	0.00	744.63	1.46	0.08	----	----	----	----	----	----	0.08
63.50	0.00	744.62	1.41	0.07	----	----	----	----	----	----	0.07
64.00	0.00	744.61	1.36	0.07	----	----	----	----	----	----	0.07
64.50	0.00	744.59	1.30	0.07	----	----	----	----	----	----	0.07
65.00	0.00	744.58	1.25	0.07	----	----	----	----	----	----	0.07
65.50	0.00	744.56	1.19	0.07	----	----	----	----	----	----	0.07
66.00	0.00	744.55	1.14	0.07	----	----	----	----	----	----	0.07
66.50	0.00	744.54	1.09	0.07	----	----	----	----	----	----	0.07
67.00	0.00	744.52	1.03	0.07	----	----	----	----	----	----	0.07

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
67.50	0.00	744.51	0.98	0.07	----	----	----	----	----	----	0.07
68.00	0.00	744.50	0.93	0.07	----	----	----	----	----	----	0.07
68.50	0.00	744.48	0.89	0.06	----	----	----	----	----	----	0.06
69.00	0.00	744.47	0.85	0.06	----	----	----	----	----	----	0.06
69.50	0.00	744.46	0.82	0.06	----	----	----	----	----	----	0.06
70.00	0.00	744.45	0.78	0.06	----	----	----	----	----	----	0.06
70.50	0.00	744.43	0.74	0.06	----	----	----	----	----	----	0.06
71.00	0.00	744.42	0.71	0.06	----	----	----	----	----	----	0.06
71.50	0.00	744.41	0.67	0.06	----	----	----	----	----	----	0.06
72.00	0.00	744.40	0.64	0.06	----	----	----	----	----	----	0.06

...End

Hydrograph Report

Page 1

English

Hyd. No. 72

100YR 3HR

Hydrograph type = Reservoir
Storm frequency = 100 yrs
Inflow hyd. No. = 53
Max. Elevation = 747.32 ft

Peak discharge = 1.07 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 39,365 cuft

Storage Indication method used.

Total Volume = 38,242 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
1.00	7.37	744.84	2.20	0.09	----	----	----	----	----	----	0.09
1.50	7.12	746.03	4.68	0.14	----	----	----	----	----	----	0.14
2.00	3.75	746.67	5.08	0.17	0.02	----	----	----	----	----	0.19
2.50	3.27	747.09	5.22	0.18	0.11	----	----	----	----	----	0.28
3.00	2.12	747.30	5.28	0.18	0.84	----	----	----	----	----	1.01
3.50	0.00	747.26	5.27	0.18	0.67	----	----	----	----	----	0.85
4.00	0.00	747.18	5.25	0.18	0.38	----	----	----	----	----	0.56
4.50	0.00	747.13	5.23	0.18	0.21	----	----	----	----	----	0.39
5.00	0.00	747.10	5.22	0.18	0.11	----	----	----	----	----	0.28
5.50	0.00	747.06	5.21	0.18	0.10	----	----	----	----	----	0.28
6.00	0.00	747.03	5.20	0.18	0.10	----	----	----	----	----	0.27
6.50	0.00	747.00	5.19	0.17	0.09	----	----	----	----	----	0.27
7.00	0.00	746.97	5.18	0.17	0.09	----	----	----	----	----	0.26
7.50	0.00	746.93	5.17	0.17	0.08	----	----	----	----	----	0.25
8.00	0.00	746.90	5.15	0.17	0.07	----	----	----	----	----	0.25
8.50	0.00	746.87	5.14	0.17	0.07	----	----	----	----	----	0.24
9.00	0.00	746.84	5.13	0.17	0.06	----	----	----	----	----	0.23
9.50	0.00	746.81	5.12	0.17	0.05	----	----	----	----	----	0.22
10.00	0.00	746.78	5.11	0.17	0.05	----	----	----	----	----	0.22
10.50	0.00	746.75	5.11	0.17	0.04	----	----	----	----	----	0.21
11.00	0.00	746.73	5.10	0.17	0.04	----	----	----	----	----	0.20
11.50	0.00	746.70	5.09	0.17	0.03	----	----	----	----	----	0.20
12.00	0.00	746.67	5.08	0.17	0.02	----	----	----	----	----	0.19
12.50	0.00	746.65	5.07	0.16	0.02	----	----	----	----	----	0.19
13.00	0.00	746.63	5.06	0.16	0.02	----	----	----	----	----	0.18
13.50	0.00	746.60	5.06	0.16	0.01	----	----	----	----	----	0.18
14.00	0.00	746.58	5.05	0.16	0.01	----	----	----	----	----	0.17
14.50	0.00	746.56	5.04	0.16	0.01	----	----	----	----	----	0.17
15.00	0.00	746.53	5.03	0.16	0.00	----	----	----	----	----	0.17
15.50	0.00	746.51	5.03	0.16	0.00	----	----	----	----	----	0.16
16.00	0.00	746.49	5.02	0.16	----	----	----	----	----	----	0.16
16.50	0.00	746.47	5.01	0.16	----	----	----	----	----	----	0.16
17.00	0.00	746.45	5.00	0.16	----	----	----	----	----	----	0.16
17.50	0.00	746.43	5.00	0.16	----	----	----	----	----	----	0.16
18.00	0.00	746.41	4.99	0.16	----	----	----	----	----	----	0.16
18.50	0.00	746.39	4.98	0.16	----	----	----	----	----	----	0.16

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
19.00	0.00	746.37	4.98	0.16	----	----	----	----	----	----	0.16
19.50	0.00	746.35	4.97	0.15	----	----	----	----	----	----	0.15
20.00	0.00	746.33	4.96	0.15	----	----	----	----	----	----	0.15
20.50	0.00	746.31	4.96	0.15	----	----	----	----	----	----	0.15
21.00	0.00	746.29	4.95	0.15	----	----	----	----	----	----	0.15
21.50	0.00	746.27	4.94	0.15	----	----	----	----	----	----	0.15
22.00	0.00	746.25	4.94	0.15	----	----	----	----	----	----	0.15
22.50	0.00	746.23	4.93	0.15	----	----	----	----	----	----	0.15
23.00	0.00	746.21	4.92	0.15	----	----	----	----	----	----	0.15
23.50	0.00	746.19	4.90	0.15	----	----	----	----	----	----	0.15
24.00	0.00	746.17	4.88	0.15	----	----	----	----	----	----	0.15
24.50	0.00	746.15	4.85	0.15	----	----	----	----	----	----	0.15
25.00	0.00	746.13	4.82	0.15	----	----	----	----	----	----	0.15
25.50	0.00	746.11	4.80	0.15	----	----	----	----	----	----	0.15
26.00	0.00	746.09	4.77	0.15	----	----	----	----	----	----	0.15
26.50	0.00	746.07	4.74	0.14	----	----	----	----	----	----	0.14
27.00	0.00	746.05	4.71	0.14	----	----	----	----	----	----	0.14
27.50	0.00	746.03	4.68	0.14	----	----	----	----	----	----	0.14
28.00	0.00	746.01	4.65	0.14	----	----	----	----	----	----	0.14
28.50	0.00	746.00	4.62	0.14	----	----	----	----	----	----	0.14
29.00	0.00	745.97	4.59	0.14	----	----	----	----	----	----	0.14
29.50	0.00	745.95	4.55	0.14	----	----	----	----	----	----	0.14
30.00	0.00	745.93	4.52	0.14	----	----	----	----	----	----	0.14
30.50	0.00	745.91	4.48	0.14	----	----	----	----	----	----	0.14
31.00	0.00	745.88	4.45	0.14	----	----	----	----	----	----	0.14
31.50	0.00	745.86	4.41	0.14	----	----	----	----	----	----	0.14
32.00	0.00	745.84	4.38	0.14	----	----	----	----	----	----	0.14
32.50	0.00	745.82	4.34	0.14	----	----	----	----	----	----	0.14
33.00	0.00	745.80	4.31	0.13	----	----	----	----	----	----	0.13
33.50	0.00	745.78	4.27	0.13	----	----	----	----	----	----	0.13
34.00	0.00	745.76	4.24	0.13	----	----	----	----	----	----	0.13
34.50	0.00	745.73	4.20	0.13	----	----	----	----	----	----	0.13
35.00	0.00	745.71	4.17	0.13	----	----	----	----	----	----	0.13
35.50	0.00	745.69	4.13	0.13	----	----	----	----	----	----	0.13
36.00	0.00	745.67	4.09	0.13	----	----	----	----	----	----	0.13
36.50	0.00	745.65	4.06	0.13	----	----	----	----	----	----	0.13
37.00	0.00	745.63	4.02	0.13	----	----	----	----	----	----	0.13
37.50	0.00	745.61	3.99	0.13	----	----	----	----	----	----	0.13
38.00	0.00	745.59	3.95	0.13	----	----	----	----	----	----	0.13
38.50	0.00	745.57	3.91	0.12	----	----	----	----	----	----	0.12
39.00	0.00	745.55	3.88	0.12	----	----	----	----	----	----	0.12
39.50	0.00	745.53	3.84	0.12	----	----	----	----	----	----	0.12
40.00	0.00	745.51	3.80	0.12	----	----	----	----	----	----	0.12
40.50	0.00	745.49	3.77	0.12	----	----	----	----	----	----	0.12
41.00	0.00	745.47	3.73	0.12	----	----	----	----	----	----	0.12
41.50	0.00	745.46	3.69	0.12	----	----	----	----	----	----	0.12
42.00	0.00	745.44	3.66	0.12	----	----	----	----	----	----	0.12
42.50	0.00	745.42	3.62	0.12	----	----	----	----	----	----	0.12
43.00	0.00	745.40	3.58	0.12	----	----	----	----	----	----	0.12

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
43.50	0.00	745.38	3.55	0.12	----	----	----	----	----	----	0.12
44.00	0.00	745.36	3.51	0.12	----	----	----	----	----	----	0.12
44.50	0.00	745.34	3.47	0.11	----	----	----	----	----	----	0.11
45.00	0.00	745.33	3.43	0.11	----	----	----	----	----	----	0.11
45.50	0.00	745.31	3.40	0.11	----	----	----	----	----	----	0.11
46.00	0.00	745.29	3.36	0.11	----	----	----	----	----	----	0.11
46.50	0.00	745.27	3.32	0.11	----	----	----	----	----	----	0.11
47.00	0.00	745.25	3.28	0.11	----	----	----	----	----	----	0.11
47.50	0.00	745.24	3.24	0.11	----	----	----	----	----	----	0.11
48.00	0.00	745.22	3.21	0.11	----	----	----	----	----	----	0.11
48.50	0.00	745.20	3.17	0.11	----	----	----	----	----	----	0.11
49.00	0.00	745.18	3.13	0.11	----	----	----	----	----	----	0.11
49.50	0.00	745.17	3.09	0.11	----	----	----	----	----	----	0.11
50.00	0.00	745.15	3.05	0.11	----	----	----	----	----	----	0.11
50.50	0.00	745.13	3.01	0.10	----	----	----	----	----	----	0.10
51.00	0.00	745.12	2.97	0.10	----	----	----	----	----	----	0.10
51.50	0.00	745.10	2.93	0.10	----	----	----	----	----	----	0.10
52.00	0.00	745.09	2.89	0.10	----	----	----	----	----	----	0.10
52.50	0.00	745.07	2.85	0.10	----	----	----	----	----	----	0.10
53.00	0.00	745.05	2.81	0.10	----	----	----	----	----	----	0.10
53.50	0.00	745.04	2.77	0.10	----	----	----	----	----	----	0.10
54.00	0.00	745.02	2.73	0.10	----	----	----	----	----	----	0.10
54.50	0.00	745.01	2.69	0.10	----	----	----	----	----	----	0.10
55.00	0.00	744.99	2.64	0.10	----	----	----	----	----	----	0.10
55.50	0.00	744.97	2.59	0.10	----	----	----	----	----	----	0.10
56.00	0.00	744.95	2.54	0.10	----	----	----	----	----	----	0.10
56.50	0.00	744.93	2.50	0.09	----	----	----	----	----	----	0.09
57.00	0.00	744.91	2.45	0.09	----	----	----	----	----	----	0.09
57.50	0.00	744.89	2.40	0.09	----	----	----	----	----	----	0.09
58.00	0.00	744.88	2.34	0.09	----	----	----	----	----	----	0.09
58.50	0.00	744.86	2.28	0.09	----	----	----	----	----	----	0.09
59.00	0.00	744.84	2.22	0.09	----	----	----	----	----	----	0.09
59.50	0.00	744.82	2.16	0.09	----	----	----	----	----	----	0.09
60.00	0.00	744.81	2.10	0.09	----	----	----	----	----	----	0.09
60.50	0.00	744.79	2.04	0.09	----	----	----	----	----	----	0.09
61.00	0.00	744.77	1.97	0.08	----	----	----	----	----	----	0.08
61.50	0.00	744.76	1.91	0.08	----	----	----	----	----	----	0.08
62.00	0.00	744.74	1.85	0.08	----	----	----	----	----	----	0.08
62.50	0.00	744.72	1.79	0.08	----	----	----	----	----	----	0.08
63.00	0.00	744.71	1.73	0.08	----	----	----	----	----	----	0.08
63.50	0.00	744.69	1.67	0.08	----	----	----	----	----	----	0.08
64.00	0.00	744.68	1.62	0.08	----	----	----	----	----	----	0.08
64.50	0.00	744.66	1.56	0.08	----	----	----	----	----	----	0.08
65.00	0.00	744.65	1.51	0.08	----	----	----	----	----	----	0.08
65.50	0.00	744.63	1.46	0.08	----	----	----	----	----	----	0.08
66.00	0.00	744.62	1.40	0.07	----	----	----	----	----	----	0.07
66.50	0.00	744.60	1.35	0.07	----	----	----	----	----	----	0.07
67.00	0.00	744.59	1.30	0.07	----	----	----	----	----	----	0.07
67.50	0.00	744.57	1.24	0.07	----	----	----	----	----	----	0.07

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
68.00	0.00	744.56	1.18	0.07	----	----	----	----	----	----	0.07
68.50	0.00	744.55	1.13	0.07	----	----	----	----	----	----	0.07
69.00	0.00	744.53	1.08	0.07	----	----	----	----	----	----	0.07
69.50	0.00	744.52	1.02	0.07	----	----	----	----	----	----	0.07
70.00	0.00	744.51	0.97	0.07	----	----	----	----	----	----	0.07
70.50	0.00	744.49	0.93	0.07	----	----	----	----	----	----	0.07
71.00	0.00	744.48	0.89	0.06	----	----	----	----	----	----	0.06
71.50	0.00	744.47	0.85	0.06	----	----	----	----	----	----	0.06
72.00	0.00	744.46	0.81	0.06	----	----	----	----	----	----	0.06

...End

Hydrograph Report

Page 1

English

Hyd. No. 73

100YR 6HR

Hydrograph type = Reservoir
Storm frequency = 100 yrs
Inflow hyd. No. = 54
Max. Elevation = 747.43 ft

Peak discharge = 1.34 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 41,071 cuft

Storage Indication method used.

Total Volume = 46,514 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
1.50	3.24	744.53	1.06	0.07	----	----	----	----	----	----	0.07
2.00	4.65	745.29	3.35	0.11	----	----	----	----	----	----	0.11
2.50	4.52	745.99	4.62	0.14	----	----	----	----	----	----	0.14
3.00	4.00	746.55	5.04	0.16	0.01	----	----	----	----	----	0.17
3.50	2.43	746.92	5.16	0.17	0.08	----	----	----	----	----	0.25
4.00	2.17	747.15	5.24	0.18	0.28	----	----	----	----	----	0.45
4.50	2.03	747.30	5.28	0.18	0.84	----	----	----	----	----	1.02
5.00	1.70	747.40	5.31	0.18	1.09	----	----	----	----	----	1.27
5.50	1.46	747.43	5.32	0.18	1.15	----	----	----	----	----	1.33
6.00	1.26	747.42	5.32	0.18	1.14	----	----	----	----	----	1.32
6.50	0.00	747.32	5.29	0.18	0.90	----	----	----	----	----	1.08
7.00	0.00	747.22	5.26	0.18	0.53	----	----	----	----	----	0.71
7.50	0.00	747.16	5.24	0.18	0.30	----	----	----	----	----	0.48
8.00	0.00	747.12	5.22	0.18	0.16	----	----	----	----	----	0.33
8.50	0.00	747.08	5.21	0.18	0.11	----	----	----	----	----	0.28
9.00	0.00	747.05	5.20	0.18	0.10	----	----	----	----	----	0.28
9.50	0.00	747.02	5.19	0.18	0.10	----	----	----	----	----	0.27
10.00	0.00	746.99	5.18	0.17	0.09	----	----	----	----	----	0.27
10.50	0.00	746.95	5.17	0.17	0.08	----	----	----	----	----	0.26
11.00	0.00	746.92	5.16	0.17	0.08	----	----	----	----	----	0.25
11.50	0.00	746.89	5.15	0.17	0.07	----	----	----	----	----	0.24
12.00	0.00	746.86	5.14	0.17	0.06	----	----	----	----	----	0.23
12.50	0.00	746.83	5.13	0.17	0.06	----	----	----	----	----	0.23
13.00	0.00	746.80	5.12	0.17	0.05	----	----	----	----	----	0.22
13.50	0.00	746.77	5.11	0.17	0.04	----	----	----	----	----	0.21
14.00	0.00	746.74	5.10	0.17	0.04	----	----	----	----	----	0.21
14.50	0.00	746.71	5.09	0.17	0.03	----	----	----	----	----	0.20
15.00	0.00	746.69	5.08	0.17	0.03	----	----	----	----	----	0.19
15.50	0.00	746.66	5.08	0.17	0.02	----	----	----	----	----	0.19
16.00	0.00	746.64	5.07	0.16	0.02	----	----	----	----	----	0.18
16.50	0.00	746.62	5.06	0.16	0.01	----	----	----	----	----	0.18
17.00	0.00	746.59	5.05	0.16	0.01	----	----	----	----	----	0.17
17.50	0.00	746.57	5.04	0.16	0.01	----	----	----	----	----	0.17
18.00	0.00	746.55	5.04	0.16	0.01	----	----	----	----	----	0.17
18.50	0.00	746.53	5.03	0.16	0.00	----	----	----	----	----	0.16
19.00	0.00	746.50	5.02	0.16	0.00	----	----	----	----	----	0.16

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
19.50	0.00	746.48	5.02	0.16	----	----	----	----	----	----	0.16
20.00	0.00	746.46	5.01	0.16	----	----	----	----	----	----	0.16
20.50	0.00	746.44	5.00	0.16	----	----	----	----	----	----	0.16
21.00	0.00	746.42	4.99	0.16	----	----	----	----	----	----	0.16
21.50	0.00	746.40	4.99	0.16	----	----	----	----	----	----	0.16
22.00	0.00	746.38	4.98	0.16	----	----	----	----	----	----	0.16
22.50	0.00	746.36	4.97	0.16	----	----	----	----	----	----	0.16
23.00	0.00	746.34	4.97	0.15	----	----	----	----	----	----	0.15
23.50	0.00	746.32	4.96	0.15	----	----	----	----	----	----	0.15
24.00	0.00	746.30	4.95	0.15	----	----	----	----	----	----	0.15
24.50	0.00	746.28	4.95	0.15	----	----	----	----	----	----	0.15
25.00	0.00	746.26	4.94	0.15	----	----	----	----	----	----	0.15
25.50	0.00	746.24	4.93	0.15	----	----	----	----	----	----	0.15
26.00	0.00	746.22	4.93	0.15	----	----	----	----	----	----	0.15
26.50	0.00	746.20	4.92	0.15	----	----	----	----	----	----	0.15
27.00	0.00	746.18	4.89	0.15	----	----	----	----	----	----	0.15
27.50	0.00	746.16	4.86	0.15	----	----	----	----	----	----	0.15
28.00	0.00	746.14	4.84	0.15	----	----	----	----	----	----	0.15
28.50	0.00	746.12	4.81	0.15	----	----	----	----	----	----	0.15
29.00	0.00	746.10	4.79	0.15	----	----	----	----	----	----	0.15
29.50	0.00	746.08	4.76	0.15	----	----	----	----	----	----	0.15
30.00	0.00	746.06	4.73	0.14	----	----	----	----	----	----	0.14
30.50	0.00	746.04	4.70	0.14	----	----	----	----	----	----	0.14
31.00	0.00	746.03	4.67	0.14	----	----	----	----	----	----	0.14
31.50	0.00	746.01	4.64	0.14	----	----	----	----	----	----	0.14
32.00	0.00	745.99	4.61	0.14	----	----	----	----	----	----	0.14
32.50	0.00	745.96	4.57	0.14	----	----	----	----	----	----	0.14
33.00	0.00	745.94	4.54	0.14	----	----	----	----	----	----	0.14
33.50	0.00	745.92	4.50	0.14	----	----	----	----	----	----	0.14
34.00	0.00	745.90	4.47	0.14	----	----	----	----	----	----	0.14
34.50	0.00	745.88	4.43	0.14	----	----	----	----	----	----	0.14
35.00	0.00	745.85	4.40	0.14	----	----	----	----	----	----	0.14
35.50	0.00	745.83	4.36	0.14	----	----	----	----	----	----	0.14
36.00	0.00	745.81	4.33	0.13	----	----	----	----	----	----	0.13
36.50	0.00	745.79	4.29	0.13	----	----	----	----	----	----	0.13
37.00	0.00	745.77	4.26	0.13	----	----	----	----	----	----	0.13
37.50	0.00	745.75	4.22	0.13	----	----	----	----	----	----	0.13
38.00	0.00	745.73	4.19	0.13	----	----	----	----	----	----	0.13
38.50	0.00	745.71	4.15	0.13	----	----	----	----	----	----	0.13
39.00	0.00	745.68	4.12	0.13	----	----	----	----	----	----	0.13
39.50	0.00	745.66	4.08	0.13	----	----	----	----	----	----	0.13
40.00	0.00	745.64	4.04	0.13	----	----	----	----	----	----	0.13
40.50	0.00	745.62	4.01	0.13	----	----	----	----	----	----	0.13
41.00	0.00	745.60	3.97	0.13	----	----	----	----	----	----	0.13
41.50	0.00	745.58	3.94	0.13	----	----	----	----	----	----	0.13
42.00	0.00	745.56	3.90	0.12	----	----	----	----	----	----	0.12
42.50	0.00	745.54	3.86	0.12	----	----	----	----	----	----	0.12
43.00	0.00	745.52	3.83	0.12	----	----	----	----	----	----	0.12
43.50	0.00	745.50	3.79	0.12	----	----	----	----	----	----	0.12

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
44.00	0.00	745.49	3.75	0.12	----	----	----	----	----	----	0.12
44.50	0.00	745.47	3.72	0.12	----	----	----	----	----	----	0.12
45.00	0.00	745.45	3.68	0.12	----	----	----	----	----	----	0.12
45.50	0.00	745.43	3.64	0.12	----	----	----	----	----	----	0.12
46.00	0.00	745.41	3.61	0.12	----	----	----	----	----	----	0.12
46.50	0.00	745.39	3.57	0.12	----	----	----	----	----	----	0.12
47.00	0.00	745.37	3.53	0.12	----	----	----	----	----	----	0.12
47.50	0.00	745.35	3.49	0.12	----	----	----	----	----	----	0.12
48.00	0.00	745.34	3.46	0.11	----	----	----	----	----	----	0.11
48.50	0.00	745.32	3.42	0.11	----	----	----	----	----	----	0.11
49.00	0.00	745.30	3.38	0.11	----	----	----	----	----	----	0.11
49.50	0.00	745.28	3.34	0.11	----	----	----	----	----	----	0.11
50.00	0.00	745.26	3.30	0.11	----	----	----	----	----	----	0.11
50.50	0.00	745.25	3.27	0.11	----	----	----	----	----	----	0.11
51.00	0.00	745.23	3.23	0.11	----	----	----	----	----	----	0.11
51.50	0.00	745.21	3.19	0.11	----	----	----	----	----	----	0.11
52.00	0.00	745.20	3.15	0.11	----	----	----	----	----	----	0.11
52.50	0.00	745.18	3.11	0.11	----	----	----	----	----	----	0.11
53.00	0.00	745.16	3.07	0.11	----	----	----	----	----	----	0.11
53.50	0.00	745.14	3.03	0.11	----	----	----	----	----	----	0.11
54.00	0.00	745.13	2.99	0.10	----	----	----	----	----	----	0.10
54.50	0.00	745.11	2.96	0.10	----	----	----	----	----	----	0.10
55.00	0.00	745.09	2.92	0.10	----	----	----	----	----	----	0.10
55.50	0.00	745.08	2.87	0.10	----	----	----	----	----	----	0.10
56.00	0.00	745.06	2.83	0.10	----	----	----	----	----	----	0.10
56.50	0.00	745.05	2.79	0.10	----	----	----	----	----	----	0.10
57.00	0.00	745.03	2.75	0.10	----	----	----	----	----	----	0.10
57.50	0.00	745.02	2.71	0.10	----	----	----	----	----	----	0.10
58.00	0.00	745.00	2.67	0.10	----	----	----	----	----	----	0.10
58.50	0.00	744.98	2.62	0.10	----	----	----	----	----	----	0.10
59.00	0.00	744.96	2.57	0.10	----	----	----	----	----	----	0.10
59.50	0.00	744.94	2.52	0.09	----	----	----	----	----	----	0.09
60.00	0.00	744.92	2.48	0.09	----	----	----	----	----	----	0.09
60.50	0.00	744.91	2.43	0.09	----	----	----	----	----	----	0.09
61.00	0.00	744.89	2.37	0.09	----	----	----	----	----	----	0.09
61.50	0.00	744.87	2.31	0.09	----	----	----	----	----	----	0.09
62.00	0.00	744.85	2.25	0.09	----	----	----	----	----	----	0.09
62.50	0.00	744.83	2.19	0.09	----	----	----	----	----	----	0.09
63.00	0.00	744.82	2.13	0.09	----	----	----	----	----	----	0.09
63.50	0.00	744.80	2.08	0.09	----	----	----	----	----	----	0.09
64.00	0.00	744.78	2.01	0.09	----	----	----	----	----	----	0.09
64.50	0.00	744.77	1.95	0.08	----	----	----	----	----	----	0.08
65.00	0.00	744.75	1.89	0.08	----	----	----	----	----	----	0.08
65.50	0.00	744.73	1.83	0.08	----	----	----	----	----	----	0.08
66.00	0.00	744.72	1.77	0.08	----	----	----	----	----	----	0.08
66.50	0.00	744.70	1.71	0.08	----	----	----	----	----	----	0.08
67.00	0.00	744.69	1.65	0.08	----	----	----	----	----	----	0.08
67.50	0.00	744.67	1.59	0.08	----	----	----	----	----	----	0.08
68.00	0.00	744.66	1.54	0.08	----	----	----	----	----	----	0.08

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
68.50	0.00	744.64	1.49	0.08	----	----	----	----	----	----	0.08
69.00	0.00	744.63	1.43	0.08	----	----	----	----	----	----	0.08
69.50	0.00	744.61	1.38	0.07	----	----	----	----	----	----	0.07
70.00	0.00	744.60	1.33	0.07	----	----	----	----	----	----	0.07
70.50	0.00	744.58	1.27	0.07	----	----	----	----	----	----	0.07
71.00	0.00	744.57	1.22	0.07	----	----	----	----	----	----	0.07
71.50	0.00	744.55	1.16	0.07	----	----	----	----	----	----	0.07
72.00	0.00	744.54	1.11	0.07	----	----	----	----	----	----	0.07

...End

Hydrograph Report

Page 1

English

Hyd. No. 74

100YR 12HR

Hydrograph type = Reservoir
Storm frequency = 100 yrs
Inflow hyd. No. = 55
Max. Elevation = 747.35 ft

Peak discharge = 1.15 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 39,867 cuft

Storage Indication method used.

Total Volume = 54,678 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
2.00	1.05	744.17	0.14	0.02	----	----	----	----	----	----	0.02
2.50	1.64	744.44	0.75	0.06	----	----	----	----	----	----	0.06
3.00	2.08	744.80	2.06	0.09	----	----	----	----	----	----	0.09
3.50	2.88	745.23	3.23	0.11	----	----	----	----	----	----	0.11
4.00	2.72	745.66	4.07	0.13	----	----	----	----	----	----	0.13
4.50	2.63	746.06	4.72	0.14	----	----	----	----	----	----	0.14
5.00	2.66	746.38	4.98	0.16	----	----	----	----	----	----	0.16
5.50	2.58	746.71	5.09	0.17	0.03	----	----	----	----	----	0.20
6.00	2.32	746.99	5.18	0.17	0.09	----	----	----	----	----	0.27
6.50	1.56	747.16	5.24	0.18	0.29	----	----	----	----	----	0.47
7.00	1.36	747.25	5.27	0.18	0.62	----	----	----	----	----	0.80
7.50	1.27	747.29	5.28	0.18	0.82	----	----	----	----	----	0.99
8.00	1.24	747.32	5.29	0.18	0.89	----	----	----	----	----	1.07
8.50	1.22	747.34	5.30	0.18	0.93	----	----	----	----	----	1.11
9.00	1.17	747.34	5.30	0.18	0.95	----	----	----	----	----	1.13
9.50	1.21	747.35	5.30	0.18	0.97	----	----	----	----	----	1.15
10.00	0.90	747.34	5.30	0.18	0.94	----	----	----	----	----	1.12
10.50	0.90	747.32	5.29	0.18	0.89	----	----	----	----	----	1.07
11.00	0.75	747.30	5.28	0.18	0.84	----	----	----	----	----	1.02
11.50	0.71	747.27	5.27	0.18	0.72	----	----	----	----	----	0.90
12.00	0.73	747.26	5.27	0.18	0.66	----	----	----	----	----	0.84
12.50	0.00	747.20	5.25	0.18	0.43	----	----	----	----	----	0.61
13.00	0.00	747.14	5.23	0.18	0.24	----	----	----	----	----	0.42
13.50	0.00	747.10	5.22	0.18	0.12	----	----	----	----	----	0.29
14.00	0.00	747.07	5.21	0.18	0.10	----	----	----	----	----	0.28
14.50	0.00	747.04	5.20	0.18	0.10	----	----	----	----	----	0.27
15.00	0.00	747.01	5.19	0.17	0.09	----	----	----	----	----	0.27
15.50	0.00	746.98	5.18	0.17	0.09	----	----	----	----	----	0.26
16.00	0.00	746.94	5.17	0.17	0.08	----	----	----	----	----	0.25
16.50	0.00	746.91	5.16	0.17	0.08	----	----	----	----	----	0.25
17.00	0.00	746.88	5.15	0.17	0.07	----	----	----	----	----	0.24
17.50	0.00	746.85	5.14	0.17	0.06	----	----	----	----	----	0.23
18.00	0.00	746.82	5.13	0.17	0.05	----	----	----	----	----	0.22
18.50	0.00	746.79	5.12	0.17	0.05	----	----	----	----	----	0.22
19.00	0.00	746.76	5.11	0.17	0.04	----	----	----	----	----	0.21
19.50	0.00	746.73	5.10	0.17	0.04	----	----	----	----	----	0.20

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
20.00	0.00	746.71	5.09	0.17	0.03	----	----	----	----	----	0.20
20.50	0.00	746.68	5.08	0.17	0.03	----	----	----	----	----	0.19
21.00	0.00	746.66	5.07	0.16	0.02	----	----	----	----	----	0.19
21.50	0.00	746.63	5.07	0.16	0.02	----	----	----	----	----	0.18
22.00	0.00	746.61	5.06	0.16	0.01	----	----	----	----	----	0.18
22.50	0.00	746.58	5.05	0.16	0.01	----	----	----	----	----	0.17
23.00	0.00	746.56	5.04	0.16	0.01	----	----	----	----	----	0.17
23.50	0.00	746.54	5.03	0.16	0.00	----	----	----	----	----	0.17
24.00	0.00	746.52	5.03	0.16	0.00	----	----	----	----	----	0.16
24.50	0.00	746.50	5.02	0.16	----	----	----	----	----	----	0.16
25.00	0.00	746.48	5.01	0.16	----	----	----	----	----	----	0.16
25.50	0.00	746.46	5.01	0.16	----	----	----	----	----	----	0.16
26.00	0.00	746.43	5.00	0.16	----	----	----	----	----	----	0.16
26.50	0.00	746.41	4.99	0.16	----	----	----	----	----	----	0.16
27.00	0.00	746.39	4.99	0.16	----	----	----	----	----	----	0.16
27.50	0.00	746.37	4.98	0.16	----	----	----	----	----	----	0.16
28.00	0.00	746.35	4.97	0.15	----	----	----	----	----	----	0.15
28.50	0.00	746.33	4.96	0.15	----	----	----	----	----	----	0.15
29.00	0.00	746.31	4.96	0.15	----	----	----	----	----	----	0.15
29.50	0.00	746.29	4.95	0.15	----	----	----	----	----	----	0.15
30.00	0.00	746.27	4.94	0.15	----	----	----	----	----	----	0.15
30.50	0.00	746.25	4.94	0.15	----	----	----	----	----	----	0.15
31.00	0.00	746.23	4.93	0.15	----	----	----	----	----	----	0.15
31.50	0.00	746.21	4.92	0.15	----	----	----	----	----	----	0.15
32.00	0.00	746.19	4.91	0.15	----	----	----	----	----	----	0.15
32.50	0.00	746.17	4.88	0.15	----	----	----	----	----	----	0.15
33.00	0.00	746.15	4.86	0.15	----	----	----	----	----	----	0.15
33.50	0.00	746.13	4.83	0.15	----	----	----	----	----	----	0.15
34.00	0.00	746.11	4.80	0.15	----	----	----	----	----	----	0.15
34.50	0.00	746.10	4.78	0.15	----	----	----	----	----	----	0.15
35.00	0.00	746.08	4.75	0.14	----	----	----	----	----	----	0.14
35.50	0.00	746.06	4.72	0.14	----	----	----	----	----	----	0.14
36.00	0.00	746.04	4.69	0.14	----	----	----	----	----	----	0.14
36.50	0.00	746.02	4.66	0.14	----	----	----	----	----	----	0.14
37.00	0.00	746.00	4.63	0.14	----	----	----	----	----	----	0.14
37.50	0.00	745.98	4.60	0.14	----	----	----	----	----	----	0.14
38.00	0.00	745.96	4.56	0.14	----	----	----	----	----	----	0.14
38.50	0.00	745.93	4.53	0.14	----	----	----	----	----	----	0.14
39.00	0.00	745.91	4.49	0.14	----	----	----	----	----	----	0.14
39.50	0.00	745.89	4.46	0.14	----	----	----	----	----	----	0.14
40.00	0.00	745.87	4.42	0.14	----	----	----	----	----	----	0.14
40.50	0.00	745.85	4.39	0.14	----	----	----	----	----	----	0.14
41.00	0.00	745.82	4.35	0.14	----	----	----	----	----	----	0.14
41.50	0.00	745.80	4.32	0.13	----	----	----	----	----	----	0.13
42.00	0.00	745.78	4.28	0.13	----	----	----	----	----	----	0.13
42.50	0.00	745.76	4.24	0.13	----	----	----	----	----	----	0.13
43.00	0.00	745.74	4.21	0.13	----	----	----	----	----	----	0.13
43.50	0.00	745.72	4.17	0.13	----	----	----	----	----	----	0.13
44.00	0.00	745.70	4.14	0.13	----	----	----	----	----	----	0.13

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
44.50	0.00	745.68	4.10	0.13	----	----	----	----	----	----	0.13
45.00	0.00	745.66	4.07	0.13	----	----	----	----	----	----	0.13
45.50	0.00	745.64	4.03	0.13	----	----	----	----	----	----	0.13
46.00	0.00	745.62	3.99	0.13	----	----	----	----	----	----	0.13
46.50	0.00	745.60	3.96	0.13	----	----	----	----	----	----	0.13
47.00	0.00	745.58	3.92	0.13	----	----	----	----	----	----	0.13
47.50	0.00	745.56	3.89	0.12	----	----	----	----	----	----	0.12
48.00	0.00	745.54	3.85	0.12	----	----	----	----	----	----	0.12
48.50	0.00	745.52	3.81	0.12	----	----	----	----	----	----	0.12
49.00	0.00	745.50	3.78	0.12	----	----	----	----	----	----	0.12
49.50	0.00	745.48	3.74	0.12	----	----	----	----	----	----	0.12
50.00	0.00	745.46	3.70	0.12	----	----	----	----	----	----	0.12
50.50	0.00	745.44	3.67	0.12	----	----	----	----	----	----	0.12
51.00	0.00	745.42	3.63	0.12	----	----	----	----	----	----	0.12
51.50	0.00	745.40	3.59	0.12	----	----	----	----	----	----	0.12
52.00	0.00	745.38	3.56	0.12	----	----	----	----	----	----	0.12
52.50	0.00	745.37	3.52	0.12	----	----	----	----	----	----	0.12
53.00	0.00	745.35	3.48	0.12	----	----	----	----	----	----	0.12
53.50	0.00	745.33	3.44	0.11	----	----	----	----	----	----	0.11
54.00	0.00	745.31	3.41	0.11	----	----	----	----	----	----	0.11
54.50	0.00	745.29	3.37	0.11	----	----	----	----	----	----	0.11
55.00	0.00	745.28	3.33	0.11	----	----	----	----	----	----	0.11
55.50	0.00	745.26	3.29	0.11	----	----	----	----	----	----	0.11
56.00	0.00	745.24	3.25	0.11	----	----	----	----	----	----	0.11
56.50	0.00	745.22	3.21	0.11	----	----	----	----	----	----	0.11
57.00	0.00	745.21	3.18	0.11	----	----	----	----	----	----	0.11
57.50	0.00	745.19	3.14	0.11	----	----	----	----	----	----	0.11
58.00	0.00	745.17	3.10	0.11	----	----	----	----	----	----	0.11
58.50	0.00	745.16	3.06	0.11	----	----	----	----	----	----	0.11
59.00	0.00	745.14	3.02	0.10	----	----	----	----	----	----	0.10
59.50	0.00	745.12	2.98	0.10	----	----	----	----	----	----	0.10
60.00	0.00	745.11	2.94	0.10	----	----	----	----	----	----	0.10
60.50	0.00	745.09	2.90	0.10	----	----	----	----	----	----	0.10
61.00	0.00	745.07	2.86	0.10	----	----	----	----	----	----	0.10
61.50	0.00	745.06	2.82	0.10	----	----	----	----	----	----	0.10
62.00	0.00	745.04	2.78	0.10	----	----	----	----	----	----	0.10
62.50	0.00	745.03	2.74	0.10	----	----	----	----	----	----	0.10
63.00	0.00	745.01	2.70	0.10	----	----	----	----	----	----	0.10
63.50	0.00	744.99	2.65	0.10	----	----	----	----	----	----	0.10
64.00	0.00	744.97	2.60	0.10	----	----	----	----	----	----	0.10
64.50	0.00	744.95	2.56	0.10	----	----	----	----	----	----	0.10
65.00	0.00	744.94	2.51	0.09	----	----	----	----	----	----	0.09
65.50	0.00	744.92	2.46	0.09	----	----	----	----	----	----	0.09
66.00	0.00	744.90	2.41	0.09	----	----	----	----	----	----	0.09
66.50	0.00	744.88	2.35	0.09	----	----	----	----	----	----	0.09
67.00	0.00	744.86	2.29	0.09	----	----	----	----	----	----	0.09
67.50	0.00	744.85	2.23	0.09	----	----	----	----	----	----	0.09
68.00	0.00	744.83	2.17	0.09	----	----	----	----	----	----	0.09
68.50	0.00	744.81	2.11	0.09	----	----	----	----	----	----	0.09

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
69.00	0.00	744.79	2.05	0.09	----	----	----	----	----	----	0.09
69.50	0.00	744.78	1.99	0.08	----	----	----	----	----	----	0.08
70.00	0.00	744.76	1.93	0.08	----	----	----	----	----	----	0.08
70.50	0.00	744.74	1.87	0.08	----	----	----	----	----	----	0.08
71.00	0.00	744.73	1.80	0.08	----	----	----	----	----	----	0.08
71.50	0.00	744.71	1.74	0.08	----	----	----	----	----	----	0.08
72.00	0.00	744.70	1.69	0.08	----	----	----	----	----	----	0.08

...End

Hydrograph Report

Page 1

English

Hyd. No. 75

100YR 24HR

Hydrograph type = Reservoir
Storm frequency = 100 yrs
Inflow hyd. No. = 56
Max. Elevation = 747.29 ft

Peak discharge = 0.97 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 38,837 cuft

Storage Indication method used.

Total Volume = 63,302 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
3.50	0.43	744.17	0.14	0.02	----	----	----	----	----	----	0.02
4.00	0.82	744.29	0.36	0.05	----	----	----	----	----	----	0.05
4.50	0.94	744.45	0.79	0.06	----	----	----	----	----	----	0.06
5.00	1.12	744.63	1.46	0.08	----	----	----	----	----	----	0.08
5.50	1.24	744.85	2.25	0.09	----	----	----	----	----	----	0.09
6.00	1.30	745.07	2.84	0.10	----	----	----	----	----	----	0.10
6.50	1.70	745.30	3.38	0.11	----	----	----	----	----	----	0.11
7.00	1.76	745.55	3.88	0.12	----	----	----	----	----	----	0.12
7.50	1.62	745.81	4.32	0.13	----	----	----	----	----	----	0.13
8.00	1.64	746.04	4.69	0.14	----	----	----	----	----	----	0.14
8.50	1.63	746.23	4.93	0.15	----	----	----	----	----	----	0.15
9.00	1.57	746.42	4.99	0.16	----	----	----	----	----	----	0.16
9.50	1.58	746.61	5.06	0.16	0.01	----	----	----	----	----	0.18
10.00	1.58	746.79	5.12	0.17	0.05	----	----	----	----	----	0.22
10.50	1.59	746.96	5.18	0.17	0.09	----	----	----	----	----	0.26
11.00	1.43	747.11	5.22	0.18	0.15	----	----	----	----	----	0.33
11.50	1.37	747.21	5.26	0.18	0.47	----	----	----	----	----	0.65
12.00	1.37	747.27	5.28	0.18	0.73	----	----	----	----	----	0.91
12.50	0.92	747.29	5.28	0.18	0.78	----	----	----	----	----	0.96
13.00	0.92	747.28	5.28	0.18	0.76	----	----	----	----	----	0.94
13.50	0.81	747.28	5.28	0.18	0.74	----	----	----	----	----	0.92
14.00	0.80	747.27	5.27	0.18	0.70	----	----	----	----	----	0.88
14.50	0.79	747.26	5.27	0.18	0.67	----	----	----	----	----	0.85
15.00	0.74	747.25	5.27	0.18	0.63	----	----	----	----	----	0.81
15.50	0.75	747.24	5.27	0.18	0.61	----	----	----	----	----	0.79
16.00	0.73	747.24	5.26	0.18	0.59	----	----	----	----	----	0.77
16.50	0.73	747.24	5.26	0.18	0.57	----	----	----	----	----	0.75
17.00	0.70	747.23	5.26	0.18	0.56	----	----	----	----	----	0.74
17.50	0.69	747.23	5.26	0.18	0.54	----	----	----	----	----	0.72
18.00	0.69	747.23	5.26	0.18	0.53	----	----	----	----	----	0.71
18.50	0.71	747.22	5.26	0.18	0.53	----	----	----	----	----	0.71
19.00	0.71	747.22	5.26	0.18	0.53	----	----	----	----	----	0.71
19.50	0.54	747.22	5.26	0.18	0.51	----	----	----	----	----	0.69
20.00	0.53	747.21	5.25	0.18	0.45	----	----	----	----	----	0.63
20.50	0.53	747.20	5.25	0.18	0.42	----	----	----	----	----	0.60
21.00	0.53	747.19	5.25	0.18	0.40	----	----	----	----	----	0.58

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
21.50	0.53	747.19	5.25	0.18	0.38	----	----	----	----	----	0.56
22.00	0.41	747.18	5.24	0.18	0.35	----	----	----	----	----	0.53
22.50	0.41	747.16	5.24	0.18	0.32	----	----	----	----	----	0.49
23.00	0.42	747.16	5.24	0.18	0.29	----	----	----	----	----	0.47
23.50	0.43	747.15	5.24	0.18	0.28	----	----	----	----	----	0.46
24.00	0.43	747.15	5.24	0.18	0.27	----	----	----	----	----	0.45
24.50	0.00	747.12	5.23	0.18	0.17	----	----	----	----	----	0.35
25.00	0.00	747.09	5.21	0.18	0.11	----	----	----	----	----	0.28
25.50	0.00	747.05	5.20	0.18	0.10	----	----	----	----	----	0.28
26.00	0.00	747.02	5.19	0.18	0.10	----	----	----	----	----	0.27
26.50	0.00	746.99	5.18	0.17	0.09	----	----	----	----	----	0.27
27.00	0.00	746.96	5.17	0.17	0.08	----	----	----	----	----	0.26
27.50	0.00	746.92	5.16	0.17	0.08	----	----	----	----	----	0.25
28.00	0.00	746.89	5.15	0.17	0.07	----	----	----	----	----	0.24
28.50	0.00	746.86	5.14	0.17	0.06	----	----	----	----	----	0.24
29.00	0.00	746.83	5.13	0.17	0.06	----	----	----	----	----	0.23
29.50	0.00	746.80	5.12	0.17	0.05	----	----	----	----	----	0.22
30.00	0.00	746.77	5.11	0.17	0.05	----	----	----	----	----	0.21
30.50	0.00	746.74	5.10	0.17	0.04	----	----	----	----	----	0.21
31.00	0.00	746.72	5.09	0.17	0.03	----	----	----	----	----	0.20
31.50	0.00	746.69	5.09	0.17	0.03	----	----	----	----	----	0.19
32.00	0.00	746.67	5.08	0.17	0.02	----	----	----	----	----	0.19
32.50	0.00	746.64	5.07	0.16	0.02	----	----	----	----	----	0.18
33.00	0.00	746.62	5.06	0.16	0.01	----	----	----	----	----	0.18
33.50	0.00	746.60	5.05	0.16	0.01	----	----	----	----	----	0.17
34.00	0.00	746.57	5.05	0.16	0.01	----	----	----	----	----	0.17
34.50	0.00	746.55	5.04	0.16	0.01	----	----	----	----	----	0.17
35.00	0.00	746.53	5.03	0.16	0.00	----	----	----	----	----	0.16
35.50	0.00	746.51	5.02	0.16	0.00	----	----	----	----	----	0.16
36.00	0.00	746.49	5.02	0.16	----	----	----	----	----	----	0.16
36.50	0.00	746.46	5.01	0.16	----	----	----	----	----	----	0.16
37.00	0.00	746.44	5.00	0.16	----	----	----	----	----	----	0.16
37.50	0.00	746.42	5.00	0.16	----	----	----	----	----	----	0.16
38.00	0.00	746.40	4.99	0.16	----	----	----	----	----	----	0.16
38.50	0.00	746.38	4.98	0.16	----	----	----	----	----	----	0.16
39.00	0.00	746.36	4.97	0.16	----	----	----	----	----	----	0.16
39.50	0.00	746.34	4.97	0.15	----	----	----	----	----	----	0.15
40.00	0.00	746.32	4.96	0.15	----	----	----	----	----	----	0.15
40.50	0.00	746.30	4.95	0.15	----	----	----	----	----	----	0.15
41.00	0.00	746.28	4.95	0.15	----	----	----	----	----	----	0.15
41.50	0.00	746.26	4.94	0.15	----	----	----	----	----	----	0.15
42.00	0.00	746.24	4.93	0.15	----	----	----	----	----	----	0.15
42.50	0.00	746.22	4.93	0.15	----	----	----	----	----	----	0.15
43.00	0.00	746.20	4.92	0.15	----	----	----	----	----	----	0.15
43.50	0.00	746.18	4.89	0.15	----	----	----	----	----	----	0.15
44.00	0.00	746.16	4.87	0.15	----	----	----	----	----	----	0.15
44.50	0.00	746.14	4.84	0.15	----	----	----	----	----	----	0.15
45.00	0.00	746.12	4.81	0.15	----	----	----	----	----	----	0.15
45.50	0.00	746.10	4.79	0.15	----	----	----	----	----	----	0.15

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
46.00	0.00	746.08	4.76	0.15	----	----	----	----	----	----	0.15
46.50	0.00	746.07	4.73	0.14	----	----	----	----	----	----	0.14
47.00	0.00	746.05	4.70	0.14	----	----	----	----	----	----	0.14
47.50	0.00	746.03	4.67	0.14	----	----	----	----	----	----	0.14
48.00	0.00	746.01	4.65	0.14	----	----	----	----	----	----	0.14
48.50	0.00	745.99	4.61	0.14	----	----	----	----	----	----	0.14
49.00	0.00	745.97	4.58	0.14	----	----	----	----	----	----	0.14
49.50	0.00	745.94	4.54	0.14	----	----	----	----	----	----	0.14
50.00	0.00	745.92	4.51	0.14	----	----	----	----	----	----	0.14
50.50	0.00	745.90	4.47	0.14	----	----	----	----	----	----	0.14
51.00	0.00	745.88	4.44	0.14	----	----	----	----	----	----	0.14
51.50	0.00	745.86	4.40	0.14	----	----	----	----	----	----	0.14
52.00	0.00	745.83	4.37	0.14	----	----	----	----	----	----	0.14
52.50	0.00	745.81	4.33	0.13	----	----	----	----	----	----	0.13
53.00	0.00	745.79	4.30	0.13	----	----	----	----	----	----	0.13
53.50	0.00	745.77	4.26	0.13	----	----	----	----	----	----	0.13
54.00	0.00	745.75	4.23	0.13	----	----	----	----	----	----	0.13
54.50	0.00	745.73	4.19	0.13	----	----	----	----	----	----	0.13
55.00	0.00	745.71	4.15	0.13	----	----	----	----	----	----	0.13
55.50	0.00	745.69	4.12	0.13	----	----	----	----	----	----	0.13
56.00	0.00	745.67	4.08	0.13	----	----	----	----	----	----	0.13
56.50	0.00	745.65	4.05	0.13	----	----	----	----	----	----	0.13
57.00	0.00	745.63	4.01	0.13	----	----	----	----	----	----	0.13
57.50	0.00	745.61	3.98	0.13	----	----	----	----	----	----	0.13
58.00	0.00	745.59	3.94	0.13	----	----	----	----	----	----	0.13
58.50	0.00	745.57	3.90	0.12	----	----	----	----	----	----	0.12
59.00	0.00	745.55	3.87	0.12	----	----	----	----	----	----	0.12
59.50	0.00	745.53	3.83	0.12	----	----	----	----	----	----	0.12
60.00	0.00	745.51	3.79	0.12	----	----	----	----	----	----	0.12
60.50	0.00	745.49	3.76	0.12	----	----	----	----	----	----	0.12
61.00	0.00	745.47	3.72	0.12	----	----	----	----	----	----	0.12
61.50	0.00	745.45	3.68	0.12	----	----	----	----	----	----	0.12
62.00	0.00	745.43	3.65	0.12	----	----	----	----	----	----	0.12
62.50	0.00	745.41	3.61	0.12	----	----	----	----	----	----	0.12
63.00	0.00	745.39	3.57	0.12	----	----	----	----	----	----	0.12
63.50	0.00	745.37	3.54	0.12	----	----	----	----	----	----	0.12
64.00	0.00	745.36	3.50	0.12	----	----	----	----	----	----	0.12
64.50	0.00	745.34	3.46	0.11	----	----	----	----	----	----	0.11
65.00	0.00	745.32	3.42	0.11	----	----	----	----	----	----	0.11
65.50	0.00	745.30	3.39	0.11	----	----	----	----	----	----	0.11
66.00	0.00	745.28	3.35	0.11	----	----	----	----	----	----	0.11
66.50	0.00	745.27	3.31	0.11	----	----	----	----	----	----	0.11
67.00	0.00	745.25	3.27	0.11	----	----	----	----	----	----	0.11
67.50	0.00	745.23	3.23	0.11	----	----	----	----	----	----	0.11
68.00	0.00	745.21	3.19	0.11	----	----	----	----	----	----	0.11
68.50	0.00	745.20	3.16	0.11	----	----	----	----	----	----	0.11
69.00	0.00	745.18	3.12	0.11	----	----	----	----	----	----	0.11
69.50	0.00	745.16	3.08	0.11	----	----	----	----	----	----	0.11
70.00	0.00	745.15	3.04	0.11	----	----	----	----	----	----	0.11

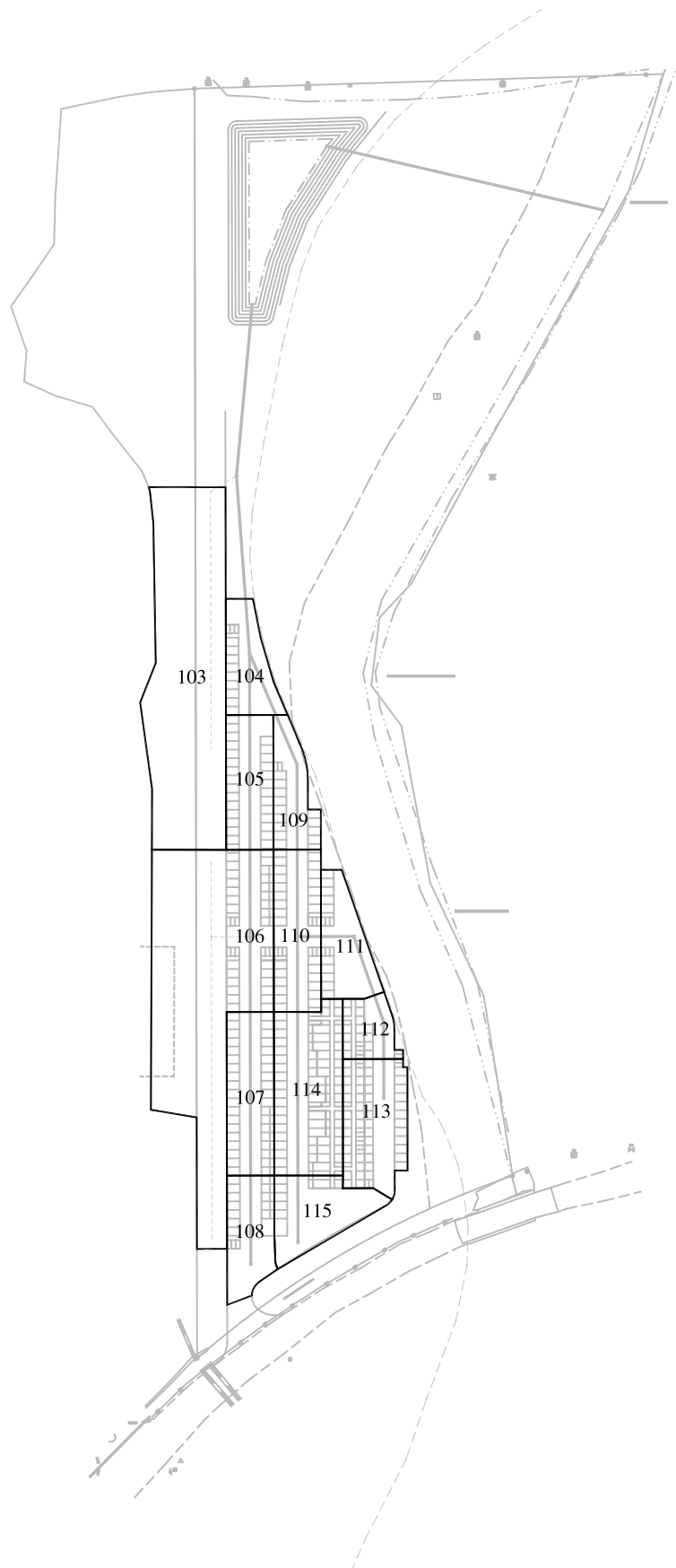
Continues on next page...

Hydrograph Discharge Table

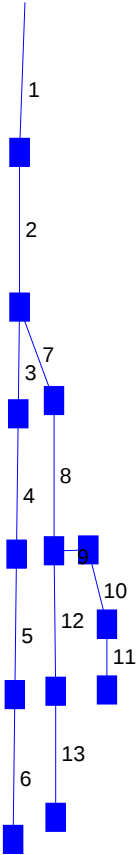
Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
70.50	0.00	745.13	3.00	0.10	----	----	----	----	----	----	0.10
71.00	0.00	745.11	2.96	0.10	----	----	----	----	----	----	0.10
71.50	0.00	745.10	2.92	0.10	----	----	----	----	----	----	0.10
72.00	0.00	745.08	2.88	0.10	----	----	----	----	----	----	0.10

...End

Storm Basins Map



Hydraflow Plan View



Hydraflow Summary Report

Line No.	Line ID	Flow rate (cfs)	Line size (in)	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line slope (%)	HGL down (ft)	HGL up (ft)	Minor loss (ft)	Dns line No.
1	102 - 103	18.92	30 c	200.0	744.00	744.50	0.250	745.91	746.40	0.00	End
2	103 - 104	17.16	30 c	206.0	744.50	744.91	0.200	746.43	746.84	0.00	1
3	104 - 105	7.04	24 c	142.0	745.41	745.70	0.200	746.84	747.02	0.00	2
4	105 - 106	5.78	24 c	187.0	745.70	746.07	0.200	747.02	747.24	0.00	3
5	106 - 107	2.70	15 c	187.0	746.82	747.24	0.225	747.73	748.15	0.00	4
6	107 - 108	1.19	15 c	193.0	747.24	747.68	0.225	748.15	748.30	0.00	5
7	104 - 109	9.18	24 c	141.0	745.41	745.69	0.200	746.92	747.19	0.00	2
8	109 - 110	8.30	24 c	200.0	745.69	746.09	0.200	747.19	747.52	0.00	7
9	110 - 111	3.27	18 c	66.0	746.59	746.73	0.200	747.53	747.66	0.00	8
10	111 - 112	2.20	15 c	105.0	746.98	747.21	0.225	747.77	748.00	0.00	9
11	112 - 113	1.57	12 c	88.0	747.46	747.73	0.304	748.15	748.41	0.00	10
12	110 - 114	3.52	18 c	187.0	746.59	746.97	0.200	747.57	747.94	0.00	8
13	114 - 115	1.26	12 c	168.0	747.47	747.98	0.304	748.06	748.56	0.00	12
Project File: Storm_01.12.11.stm			IDF File: Storm Sewers IDF.IDF			Total No. Lines: 13			Run Date: 02-15-2011		
NOTES: c = circular; e = elliptical; b = box; Return period = 10 Yrs.; * Indicates surcharge condition.											

Page 1

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (l)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line		Incr	Total		Incr	Total	Inlet	Syst					Size	Slope	Up	Dn	Up	Dn	Up	Dn	
		(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1	End	200.0	0.84	4.06	0.30	0.25	2.71	5.0	13.5	4.8	18.92	20.51	4.72	30	0.25	744.50	744.00	746.40	745.91	0.00	0.00	102 - 103
2	1	206.0	0.15	3.22	0.90	0.14	2.46	5.0	12.5	5.0	17.16	18.34	4.22	30	0.20	744.91	744.50	746.84	746.43	0.00	0.00	103 - 104
3	2	142.0	0.20	1.61	0.90	0.18	1.01	5.0	11.4	5.2	7.04	10.11	3.06	24	0.20	745.70	745.41	747.02	746.84	0.00	0.00	104 - 105
4	3	187.0	0.98	1.41	0.45	0.44	0.83	5.0	9.7	5.5	5.78	10.12	2.83	24	0.20	746.07	745.70	747.24	747.02	0.00	0.00	105 - 106
5	4	187.0	0.24	0.43	0.90	0.22	0.39	5.0	8.3	5.9	2.70	3.07	2.81	15	0.23	747.24	746.82	748.15	747.73	0.00	0.00	106 - 107
6	5	193.0	0.19	0.19	0.90	0.17	0.17	5.0	5.0	7.0	1.19	3.07	1.61	15	0.23	747.68	747.24	748.30	748.15	0.00	0.00	107 - 108
7	2	141.0	0.14	1.46	0.90	0.13	1.31	5.0	9.6	5.6	9.18	10.11	3.63	24	0.20	745.69	745.41	747.19	746.92	0.00	0.00	104 - 109
8	7	200.0	0.24	1.32	0.90	0.22	1.19	5.0	8.3	5.9	8.30	10.12	3.37	24	0.20	746.09	745.69	747.52	747.19	0.00	0.00	109 - 110
9	8	66.0	0.17	0.52	0.90	0.15	0.47	5.0	6.7	6.4	3.27	4.70	2.82	18	0.20	746.73	746.59	747.66	747.53	0.00	0.00	110 - 111
10	9	105.0	0.10	0.35	0.90	0.09	0.31	5.0	5.7	6.7	2.20	3.07	2.69	15	0.23	747.21	746.98	748.00	747.77	0.00	0.00	111 - 112
11	10	88.0	0.25	0.25	0.90	0.22	0.22	5.0	5.0	7.0	1.57	1.96	2.76	12	0.30	747.73	747.46	748.41	748.15	0.00	0.00	112 - 113
12	8	187.0	0.36	0.56	0.90	0.32	0.50	5.0	6.7	6.4	3.52	4.70	2.91	18	0.20	746.97	746.59	747.94	747.57	0.00	0.00	110 - 114
13	12	168.0	0.20	0.20	0.90	0.18	0.18	5.0	5.0	7.0	1.26	1.96	2.64	12	0.30	747.98	747.47	748.56	748.06	0.00	0.00	114 - 115
Project File: Storm_01.12.11.stm								IDF File: Storm Sewers IDF.IDF								Total number of lines: 13				Run Date: 02-15-2011		
NOTES: Intensity = 57.92 / (Inlet time + 9.10) ^ 0.80; Return period = 10 Yrs. ; Initial tailwater elevation = 745.91 (ft) ; Total flows limited to inlet captured flows.																						

Hydraflow Inlet Report

Line No	Inlet ID	Q = CIA	Q carry	Q capt	Q byp	Junc type	Curb Inlet		Grate Inlet			Gutter						Inlet			Byp line No		
		(cfs)	(cfs)	(cfs)	(cfs)		Ht (in)	L (ft)	area (sqft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	depth (ft)	spread (ft)	depth (ft)	spread (ft)		Dep (in)	
1	103	1.76	0.00	1.76	0.00	DrGrt	0.0	0.00	0.60	4.00	2.00	Sag	2.00	0.050	0.050	0.000	0.30	14.00	0.30	14.00	0.0	Off	
2	104	0.94	0.00	0.94	0.00	DrGrt	0.0	0.00	0.32	4.00	2.00	Sag	2.00	0.050	0.050	0.000	0.30	14.00	0.30	14.00	0.0	1	
3	105	1.26	0.00	1.26	0.00	DrGrt	0.0	0.00	0.43	4.00	2.00	Sag	2.00	0.050	0.050	0.000	0.30	14.00	0.30	14.00	0.0	2	
4	106	3.08	0.00	3.08	0.00	DrGrt	0.0	0.00	1.05	4.00	2.00	Sag	2.00	0.050	0.050	0.000	0.30	14.00	0.30	14.00	0.0	3	
5	107	1.51	0.00	1.51	0.00	DrGrt	0.0	0.00	0.51	4.00	2.00	Sag	2.00	0.050	0.050	0.000	0.30	14.00	0.30	14.00	0.0	4	
6	108	1.19	0.00	1.19	0.00	DrGrt	0.0	0.00	0.41	4.00	2.00	Sag	2.00	0.050	0.050	0.000	0.30	14.00	0.30	14.00	0.0	5	
7	109	0.88	0.00	0.88	0.00	DrGrt	0.0	0.00	0.30	4.00	2.00	Sag	2.00	0.050	0.050	0.000	0.30	14.00	0.30	14.00	0.0	2	
8	110	1.51	0.00	1.51	0.00	DrGrt	0.0	0.00	0.51	4.00	2.00	Sag	2.00	0.050	0.050	0.000	0.30	14.00	0.30	14.00	0.0	7	
9	111	1.07	0.00	1.07	0.00	DrGrt	0.0	0.00	0.36	4.00	2.00	Sag	2.00	0.050	0.050	0.000	0.30	14.00	0.30	14.00	0.0	8	
10	112	0.63	0.00	0.63	0.00	DrGrt	0.0	0.00	0.21	4.00	2.00	Sag	2.00	0.050	0.050	0.000	0.30	14.00	0.30	14.00	0.0	9	
11	113	1.57	0.00	1.57	0.00	DrGrt	0.0	0.00	0.53	4.00	2.00	Sag	2.00	0.050	0.050	0.000	0.30	14.00	0.30	14.00	0.0	10	
12	114	2.26	0.00	2.26	0.00	DrGrt	0.0	0.00	0.77	4.00	2.00	Sag	2.00	0.050	0.050	0.000	0.30	14.00	0.30	14.00	0.0	8	
13	115	1.26	0.00	1.26	0.00	DrGrt	0.0	0.00	0.43	4.00	2.00	Sag	2.00	0.050	0.050	0.013	0.30	14.00	0.30	14.00	0.0	12	
Project File: Storm_01.12.11.stm						I-D-F File: Storm Sewers IDF.IDF						Total number of lines: 13						Run Date: 02-15-2011					
NOTES: Inlet N-Values = 0.016 ; Intensity = 57.92 / (Inlet time + 9.10) ^ 0.80; Return period = 10 Yrs. ; * Indicates Known Q added																							

Inlet Capacity Calculations

Project : Sister's Self Storage

Prepared By: Northpointe Surveying, Inc.

Storm Structure No. 104

Weir Flow :

$$d = \left(\frac{Q_i}{3.0 P} \right)^{0.67}$$

SINGLE INLET

$$d = \left(\frac{0.94}{3.0 (7.83)} \right)^{0.67}$$

$$d = \underline{0.12}$$

d = depth of water above grate top

Casting = Neenah R-3405

Perimeter of Casting = 7.83' – Single Inlet

Inlet Capacity Calculations

Project : Sister's Self Storage

Prepared By: Northpointe Surveying, Inc.

Storm Structure No. 105

Weir Flow :

$$d = \left(\frac{Q_i}{3.0 P} \right)^{0.67}$$

SINGLE INLET

$$d = \left(\frac{1.26}{3.0 (7.83)} \right)^{0.67}$$

$$d = \underline{0.14}$$

d = depth of water above grate top

Casting = Neenah R-3405

Perimeter of Casting = 7.83' – Single Inlet

Inlet Capacity Calculations

Project : Sister's Self Storage

Prepared By: Northpointe Surveying, Inc.

Storm Structure No. 106

Weir Flow :

$$d = \left(\frac{Q_i}{3.0 P} \right)^{0.67}$$

SINGLE INLET

$$d = \left(\frac{3.08}{3.0 (7.83)} \right)^{0.67}$$

$$d = \underline{0.26}$$

d = depth of water above grate top

Casting = Neenah R-3405

Perimeter of Casting = 7.83' – Single Inlet

Inlet Capacity Calculations

Project : Sister's Self Storage

Prepared By: Northpointe Surveying, Inc.

Storm Structure No. 107

Weir Flow :

$$d = \left(\frac{Q_i}{3.0 P} \right)^{0.67}$$

SINGLE INLET

$$d = \left(\frac{1.51}{3.0 (7.83)} \right)^{0.67}$$

$$d = \underline{0.16}$$

d = depth of water above grate top

Casting = Neenah R-3405

Perimeter of Casting = 7.83' – Single Inlet

Inlet Capacity Calculations

Project : Sister's Self Storage

Prepared By: Northpointe Surveying, Inc.

Storm Structure No. 108

Weir Flow :

$$d = \left(\frac{Q_i}{3.0 P} \right)^{0.67}$$

SINGLE INLET

$$d = \left(\frac{1.19}{3.0 (7.83)} \right)^{0.67}$$

$$d = \underline{0.14}$$

d = depth of water above grate top

Casting = Neenah R-3405

Perimeter of Casting = 7.83' – Single Inlet

Inlet Capacity Calculations

Project : Sister's Self Storage

Prepared By: Northpointe Surveying, Inc.

Storm Structure No. 109

Weir Flow :

$$d = \left(\frac{Q_i}{3.0 P} \right)^{0.67}$$

SINGLE INLET

$$d = \left(\frac{0.88}{3.0 (7.83)} \right)^{0.67}$$

$$d = \underline{\underline{0.11}}$$

d = depth of water above grate top

Casting = Neenah R-3405

Perimeter of Casting = 7.83' – Single Inlet

Inlet Capacity Calculations

Project : Sister's Self Storage

Prepared By: Northpointe Surveying, Inc.

Storm Structure No. 110

Weir Flow :

$$d = \left(\frac{Q_i}{3.0 P} \right)^{0.67}$$

SINGLE INLET

$$d = \left(\frac{1.51}{3.0 (7.83)} \right)^{0.67}$$

$$d = \underline{0.16}$$

d = depth of water above grate top

Casting = Neenah R-3405

Perimeter of Casting = 7.83' – Single Inlet

Inlet Capacity Calculations

Project : Sister's Self Storage

Prepared By: Northpointe Surveying, Inc.

Storm Structure No. 111

Weir Flow :

$$d = \left(\frac{Q_i}{3.0 P} \right)^{0.67}$$

SINGLE INLET

$$d = \left(\frac{1.07}{3.0 (7.83)} \right)^{0.67}$$

$$d = \underline{0.13}$$

d = depth of water above grate top

Casting = Neenah R-3405

Perimeter of Casting = 7.83' – Single Inlet

Inlet Capacity Calculations

Project : Sister's Self Storage

Prepared By: Northpointe Surveying, Inc.

Storm Structure No. 112

Weir Flow :

$$d = \left(\frac{Q_i}{3.0 P} \right)^{0.67}$$

SINGLE INLET

$$d = \left(\frac{0.63}{3.0 (7.83)} \right)^{0.67}$$

$$d = \underline{0.09}$$

d = depth of water above grate top

Casting = Neenah R-3405

Perimeter of Casting = 7.83' – Single Inlet

Inlet Capacity Calculations

Project : Sister's Self Storage

Prepared By: Northpointe Surveying, Inc.

Storm Structure No. 113

Weir Flow :

$$d = \left(\frac{Q_i}{3.0 P} \right)^{0.67}$$

SINGLE INLET

$$d = \left(\frac{1.57}{3.0 (7.83)} \right)^{0.67}$$

$$d = \underline{\underline{0.16}}$$

d = depth of water above grate top

Casting = Neenah R-3405

Perimeter of Casting = 7.83' – Single Inlet

Inlet Capacity Calculations

Project : Sister's Self Storage

Prepared By: Northpointe Surveying, Inc.

Storm Structure No. 114

Weir Flow :

$$d = \left(\frac{Q_i}{3.0 P} \right)^{0.67}$$

SINGLE INLET

$$d = \left(\frac{2.26}{3.0 (7.83)} \right)^{0.67}$$

$$d = \underline{0.21}$$

d = depth of water above grate top

Casting = Neenah R-3405

Perimeter of Casting = 7.83' – Single Inlet

Inlet Capacity Calculations

Project : Sister's Self Storage

Prepared By: Northpointe Surveying, Inc.

Storm Structure No. 115

Weir Flow :

$$d = \left(\frac{Q_i}{3.0 P} \right)^{0.67}$$

SINGLE INLET

$$d = \left(\frac{1.26}{3.0 (7.83)} \right)^{0.67}$$

$$d = \underline{0.14}$$

d = depth of water above grate top

Casting = Neenah R-3405

Perimeter of Casting = 7.83' – Single Inlet

Emergency Spillway

Project	Sister's Self Storage	By	VT	
Location	Johnson County	Checked	DJS	

Emergency Spillway Design:

Emergency Spillway to be designed to pass 1.25 times the peak discharge and peak flow velocity from the 100-year storm event for the entire contributing drainage area.

The post development 100-year storm event used for this design was the 100-year 1.0-hour storm being 14.36 cfs.

(1.25 x 14.6 cfs = 17.95 cfs for the Emergency Spillway)

Capacity of Proposed Emergency Spillway:

$$Q = \frac{A(1.486)}{N} R^{2/3} S^{1/2}$$

A = Area (x-section of ditch)

N = Roughness Coefficient (0.027 grass, 0.013 concrete)

R = Hydraulic Radius (Area divided by the wetted perimeter)

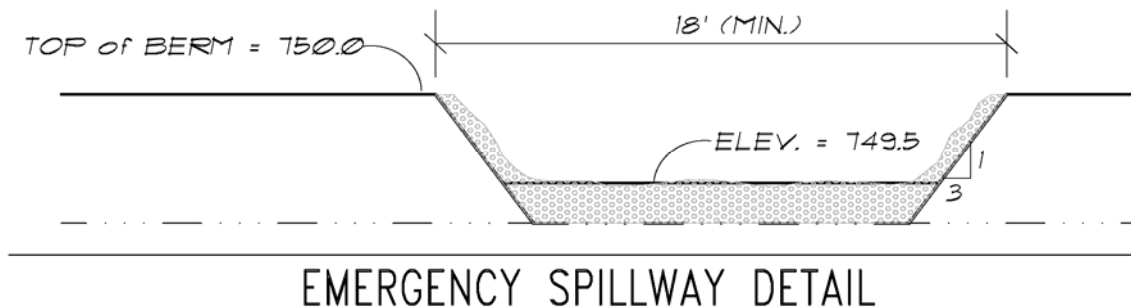
S = Slope

Using a 15' bottom width spillway with 3:1 side slopes and a 18' top width:

A = 8.25 ft²
N = 0.027
R = 0.45 ft Wetted Perimeter = 18.16 ft
S = 0.005 ft/ft

Q = 18.97 cfs

Q Target 17.95 cfs



Sister's Self Storage
Commercial Development
Johnson County, Indiana

Water Quality for Design

The storm event used for the water quality was the ½" direct runoff for the site. The calculations used to determine this storm event are as follows:

Total acreage to the proposed pond = 3.76 Site + 0.44 Offsite = 4.20

The water quality is designed to treat the 3.76 acre site

$3.76 \times 43,560 = 163,786$ square feet

$163,786 \text{ square feet} \times (1/2") 0.04 = 6,551$ cuft

6,551 cuft is the volume of runoff for the ½" storm event

$6,551 \times 0.20 = 1,310$ cuft

1,310 cuft is the volume of water to be held back in the pond 24 hours after the peak discharge of this storm from the proposed detention area.

A 2" opening is proposed in the outlet structure, which will control this storm event for water quality.

The water quality storm peaked at 10.80 hours and has a peak release rate of 0.20 cfs.

24 Hours after the peak the pond rose 0.27 feet.

The total volume of this storm remaining in the pond 24 hours after the peak is 2,189 cuft.

The pond peaks at 24.05 hours for the water quality storm event and raises 0.50 feet to a max elevation of 744.50. The max storage at this time is 6,881 cuft.

Page 3

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Return period (yrs)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description
64	Reservoir	0.13	3	78	15,334	10	45	745.59	15,889	10YR 1HR
65	Reservoir	0.14	3	138	20,800	10	46	746.06	21,291	10YR 2HR
66	Reservoir	0.15	3	195	23,708	10	47	746.27	24,151	10YR 3HR
67	Reservoir	0.19	3	372	28,891	10	48	746.66	29,490	10YR 6HR
68	Reservoir	0.25	3	729	33,321	10	49	746.92	33,094	10YR 12HR
69	Reservoir	0.25	3	1443	36,451	10	50	746.94	33,400	10YR 24HR
70	Reservoir	0.17	3	78	26,589	100	51	746.55	28,042	100YR 1HR
71	Reservoir	0.33	3	135	33,511	100	52	747.11	36,020	100YR 2HR
72	Reservoir	1.07	3	189	38,242	100	53	747.32	39,365	100YR 3HR
73	Reservoir	1.34	3	333	46,514	100	54	747.43	41,071	100YR 6HR
74	Reservoir	1.15	3	582	54,678	100	55	747.35	39,867	100YR 12HR
75	Reservoir	0.97	3	735	63,302	100	56	747.29	38,837	100YR 24HR
77	SCS Runoff	0.20	3	648	7,643	2	----	-----	-----	2YR 1HR
78	Reservoir	0.07	3	1443	6,881	2	77	744.50	4,614	WQ Route
Proj. file: PR 03.30.11.GPW				IDF file: Central IN.IDF				Run date: 03-30-2011		

Hydrograph Report

Page 1

English

Hyd. No. 77

2YR 1HR

Hydrograph type = SCS Runoff
Storm frequency = 2 yrs
Drainage area = 4.35 ac
Basin Slope = 1.0 %
Tc method = USER
Total precip. = 1.40 in
Storm duration = 24 hrs

Peak discharge = 0.20 cfs
Time interval = 3 min
Curve number = 87.4
Hydraulic length = 1080 ft
Time of conc. (Tc) = 11.8 min
Distribution = Huff
Shape factor = 484

Total Volume = 7,643 cuft

Hydrograph Discharge Table

Time -- Outflow (hrs cfs)	Time -- Outflow (hrs cfs)
5.35 0.00	21.35 0.09
5.85 0.03	21.85 0.07
6.35 0.06	22.35 0.07
6.85 0.09	22.85 0.07
7.35 0.12	23.35 0.07
7.85 0.13	23.85 0.07
8.35 0.15	
8.85 0.15	
9.35 0.17	...End
9.85 0.18	
10.35 0.19	
10.85 0.20	
11.35 0.18	
11.85 0.18	
12.35 0.13	
12.85 0.13	
13.35 0.12	
13.85 0.12	
14.35 0.12	
14.85 0.11	
15.35 0.11	
15.85 0.11	
16.35 0.11	
16.85 0.11	
17.35 0.11	
17.85 0.11	
18.35 0.11	
18.85 0.11	
19.35 0.10	
19.85 0.09	
20.35 0.09	
20.85 0.09	

Hydrograph Report

Page 1

English

Hyd. No. 78

WQ Route

Hydrograph type = Reservoir
Storm frequency = 2 yrs
Inflow hyd. No. = 77
Max. Elevation = 744.50 ft

Peak discharge = 0.07 cfs
Time interval = 3 min
Reservoir name = Pond
Max. Storage = 4,614 cuft

Storage Indication method used.

Total Volume = 6,881 cuft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
7.00	0.10	744.03	0.02	0.00	----	----	----	----	----	----	0.00
7.50	0.12	744.05	0.03	0.00	----	----	----	----	----	----	0.00
8.00	0.13	744.08	0.04	0.00	----	----	----	----	----	----	0.00
8.50	0.15	744.10	0.05	0.01	----	----	----	----	----	----	0.01
9.00	0.16	744.13	0.09	0.01	----	----	----	----	----	----	0.01
9.50	0.17	744.16	0.13	0.02	----	----	----	----	----	----	0.02
10.00	0.18	744.19	0.17	0.02	----	----	----	----	----	----	0.02
10.50	0.19	744.22	0.23	0.03	----	----	----	----	----	----	0.03
11.00	0.18	744.25	0.29	0.04	----	----	----	----	----	----	0.04
11.50	0.18	744.28	0.34	0.04	----	----	----	----	----	----	0.04
12.00	0.19	744.31	0.40	0.05	----	----	----	----	----	----	0.05
12.50	0.13	744.33	0.45	0.05	----	----	----	----	----	----	0.05
13.00	0.13	744.34	0.49	0.05	----	----	----	----	----	----	0.05
13.50	0.12	744.36	0.52	0.05	----	----	----	----	----	----	0.05
14.00	0.12	744.37	0.55	0.05	----	----	----	----	----	----	0.05
14.50	0.12	744.38	0.59	0.06	----	----	----	----	----	----	0.06
15.00	0.11	744.39	0.61	0.06	----	----	----	----	----	----	0.06
15.50	0.11	744.40	0.64	0.06	----	----	----	----	----	----	0.06
16.00	0.11	744.41	0.67	0.06	----	----	----	----	----	----	0.06
16.50	0.11	744.42	0.70	0.06	----	----	----	----	----	----	0.06
17.00	0.11	744.43	0.74	0.06	----	----	----	----	----	----	0.06
17.50	0.11	744.44	0.77	0.06	----	----	----	----	----	----	0.06
18.00	0.11	744.45	0.79	0.06	----	----	----	----	----	----	0.06
18.50	0.11	744.46	0.82	0.06	----	----	----	----	----	----	0.06
19.00	0.11	744.47	0.86	0.06	----	----	----	----	----	----	0.06
19.50	0.09	744.48	0.88	0.06	----	----	----	----	----	----	0.06
20.00	0.09	744.48	0.90	0.06	----	----	----	----	----	----	0.06
20.50	0.09	744.49	0.91	0.06	----	----	----	----	----	----	0.06
21.00	0.09	744.49	0.92	0.07	----	----	----	----	----	----	0.07
21.50	0.09	744.50	0.94	0.07	----	----	----	----	----	----	0.07
22.00	0.07	744.50	0.94	0.07	----	----	----	----	----	----	0.07
22.50	0.07	744.50	0.95	0.07	----	----	----	----	----	----	0.07
23.00	0.07	744.50	0.95	0.07	----	----	----	----	----	----	0.07
23.50	0.07	744.50	0.95	0.07	----	----	----	----	----	----	0.07
24.00	0.07	744.50	0.96	0.07	----	----	----	----	----	----	0.07
24.50	0.00	744.49	0.93	0.07	----	----	----	----	----	----	0.07

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
25.00	0.00	744.48	0.89	0.06	----	----	----	----	----	----	0.06
25.50	0.00	744.47	0.85	0.06	----	----	----	----	----	----	0.06
26.00	0.00	744.46	0.81	0.06	----	----	----	----	----	----	0.06
26.50	0.00	744.45	0.78	0.06	----	----	----	----	----	----	0.06
27.00	0.00	744.43	0.74	0.06	----	----	----	----	----	----	0.06
27.50	0.00	744.42	0.70	0.06	----	----	----	----	----	----	0.06
28.00	0.00	744.41	0.67	0.06	----	----	----	----	----	----	0.06
28.50	0.00	744.40	0.63	0.06	----	----	----	----	----	----	0.06
29.00	0.00	744.39	0.61	0.06	----	----	----	----	----	----	0.06
29.50	0.00	744.38	0.58	0.06	----	----	----	----	----	----	0.06
30.00	0.00	744.37	0.55	0.05	----	----	----	----	----	----	0.05
30.50	0.00	744.35	0.52	0.05	----	----	----	----	----	----	0.05
31.00	0.00	744.34	0.50	0.05	----	----	----	----	----	----	0.05
31.50	0.00	744.33	0.47	0.05	----	----	----	----	----	----	0.05
32.00	0.00	744.32	0.45	0.05	----	----	----	----	----	----	0.05
32.50	0.00	744.31	0.42	0.05	----	----	----	----	----	----	0.05
33.00	0.00	744.30	0.40	0.05	----	----	----	----	----	----	0.05
33.50	0.00	744.29	0.37	0.05	----	----	----	----	----	----	0.05
34.00	0.00	744.29	0.36	0.05	----	----	----	----	----	----	0.05
34.50	0.00	744.28	0.34	0.04	----	----	----	----	----	----	0.04
35.00	0.00	744.27	0.32	0.04	----	----	----	----	----	----	0.04
35.50	0.00	744.26	0.30	0.04	----	----	----	----	----	----	0.04
36.00	0.00	744.25	0.29	0.04	----	----	----	----	----	----	0.04
36.50	0.00	744.25	0.27	0.04	----	----	----	----	----	----	0.04
37.00	0.00	744.24	0.26	0.03	----	----	----	----	----	----	0.03
37.50	0.00	744.23	0.24	0.03	----	----	----	----	----	----	0.03
38.00	0.00	744.23	0.23	0.03	----	----	----	----	----	----	0.03
38.50	0.00	744.22	0.22	0.03	----	----	----	----	----	----	0.03
39.00	0.00	744.21	0.21	0.03	----	----	----	----	----	----	0.03
39.50	0.00	744.21	0.20	0.03	----	----	----	----	----	----	0.03
40.00	0.00	744.20	0.18	0.03	----	----	----	----	----	----	0.03
40.50	0.00	744.20	0.18	0.03	----	----	----	----	----	----	0.03
41.00	0.00	744.19	0.17	0.02	----	----	----	----	----	----	0.02
41.50	0.00	744.19	0.16	0.02	----	----	----	----	----	----	0.02
42.00	0.00	744.18	0.16	0.02	----	----	----	----	----	----	0.02
42.50	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
43.00	0.00	744.18	0.15	0.02	----	----	----	----	----	----	0.02
43.50	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
44.00	0.00	744.17	0.14	0.02	----	----	----	----	----	----	0.02
44.50	0.00	744.16	0.13	0.02	----	----	----	----	----	----	0.02
45.00	0.00	744.16	0.13	0.02	----	----	----	----	----	----	0.02
45.50	0.00	744.16	0.12	0.02	----	----	----	----	----	----	0.02
46.00	0.00	744.15	0.12	0.02	----	----	----	----	----	----	0.02
46.50	0.00	744.15	0.11	0.02	----	----	----	----	----	----	0.02
47.00	0.00	744.15	0.11	0.01	----	----	----	----	----	----	0.01
47.50	0.00	744.15	0.11	0.01	----	----	----	----	----	----	0.01
48.00	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
48.50	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01
49.00	0.00	744.14	0.10	0.01	----	----	----	----	----	----	0.01

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Outflow cfs
49.50	0.00	744.14	0.09	0.01	----	----	----	----	----	----	0.01
50.00	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
50.50	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
51.00	0.00	744.13	0.09	0.01	----	----	----	----	----	----	0.01
51.50	0.00	744.13	0.08	0.01	----	----	----	----	----	----	0.01
52.00	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
52.50	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
53.00	0.00	744.12	0.08	0.01	----	----	----	----	----	----	0.01
53.50	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
54.00	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
54.50	0.00	744.12	0.07	0.01	----	----	----	----	----	----	0.01
55.00	0.00	744.11	0.07	0.01	----	----	----	----	----	----	0.01
55.50	0.00	744.11	0.07	0.01	----	----	----	----	----	----	0.01
56.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
56.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
57.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
57.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
58.00	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
58.50	0.00	744.11	0.06	0.01	----	----	----	----	----	----	0.01
59.00	0.00	744.10	0.05	0.01	----	----	----	----	----	----	0.01
59.50	0.00	744.10	0.05	0.01	----	----	----	----	----	----	0.01
60.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
60.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
61.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
61.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
62.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
62.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
63.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
63.50	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
64.00	0.00	744.10	0.05	0.00	----	----	----	----	----	----	0.00
64.50	0.00	744.09	0.05	0.00	----	----	----	----	----	----	0.00
65.00	0.00	744.09	0.05	0.00	----	----	----	----	----	----	0.00
65.50	0.00	744.09	0.05	0.00	----	----	----	----	----	----	0.00
66.00	0.00	744.09	0.05	0.00	----	----	----	----	----	----	0.00
66.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
67.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
67.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
68.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
68.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
69.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
69.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
70.00	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
70.50	0.00	744.09	0.04	0.00	----	----	----	----	----	----	0.00
71.00	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
71.50	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00
72.00	0.00	744.08	0.04	0.00	----	----	----	----	----	----	0.00

...End