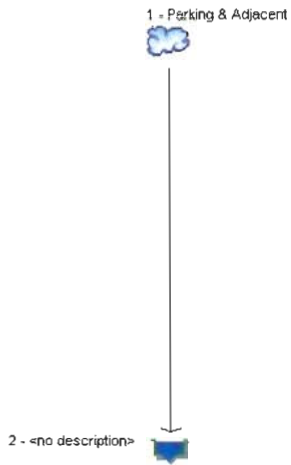


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Watershed Model Schematic

Hydraflow Hydrographs by Intelisolve v9.02



Legend

<u>Hyd. Origin</u>	<u>Description</u>
1	SCS Runoff Parking & Adjacent
2	Reservoir <no description>

Hydrograph Return Period Recap

Hydraflow Hydrographs by Intelisolve v9.02

Hyd. No.	Hydrograph type (origin)	Inflow Hyd(s)	Peak Outflow (cfs)								Hydrograph description
			1-Yr	2-Yr	3-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	
1	SCS Runoff	-----	-----	7.813	-----	10.87	13.02	15.47	18.51	20.94	Parking & Adjacent
2	Reservoir	1	-----	0.000	-----	0.247	0.633	1.552	4.606	7.724	<no description>

Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.02

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph description
1	SCS Runoff	7.813	2	722	0.507	---	---	----	Parking & Adjacent
2	Reservoir	0.000	2	n/a	0.000	1	1323.40	0.507	<no description>
Bio-Retention_Pond.gpw					Return Period: 2 Year			Tuesday, Apr 24, 2007	

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.02

Tuesday, Apr 24, 2007

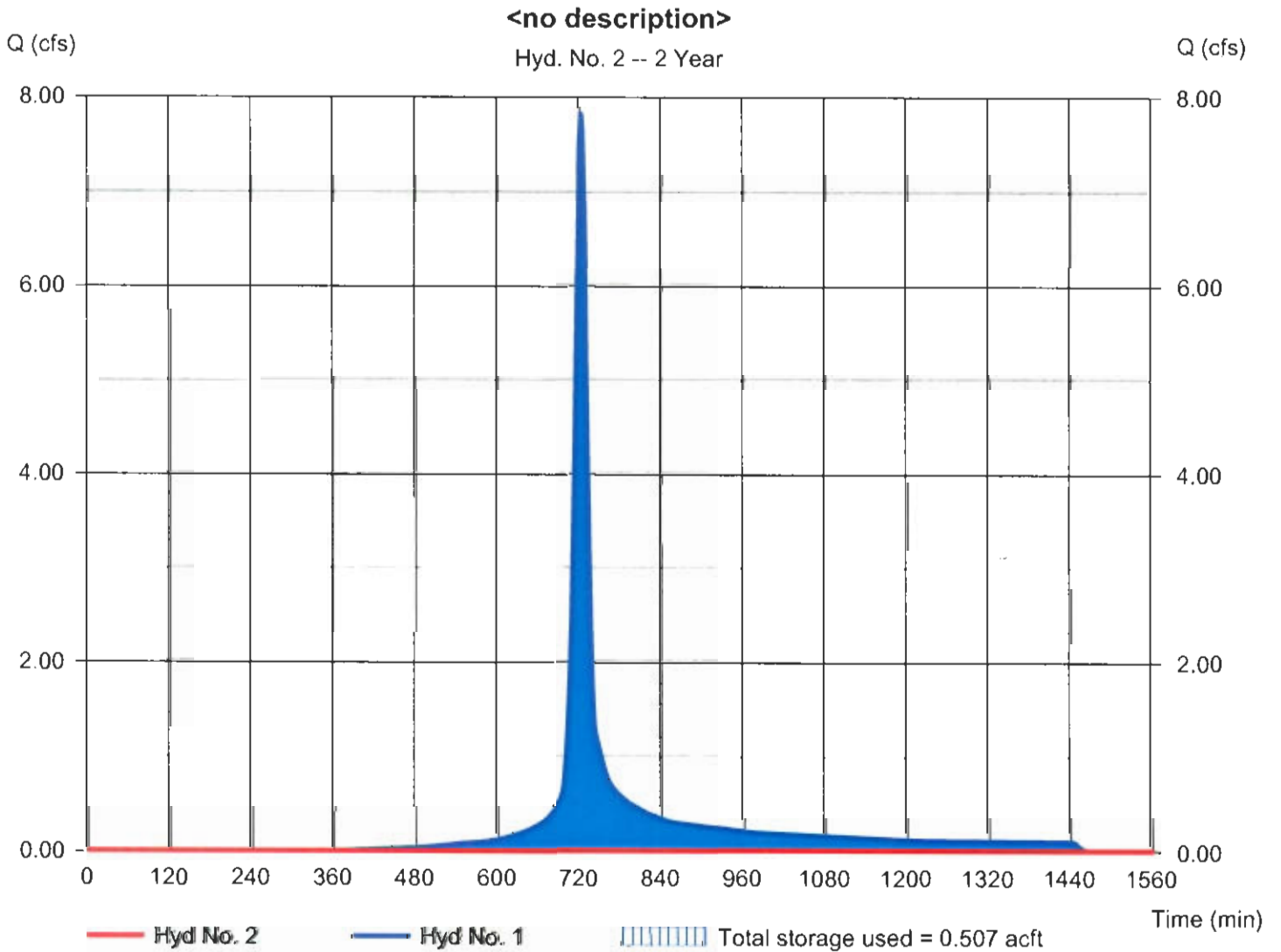
Hyd. No. 2

<no description>

Hydrograph type = Reservoir
Storm frequency = 2 yrs
Time interval = 2 min
Inflow hyd. No. = 1 - Parking & Adjacent
Reservoir name = <New Pond>

Peak discharge = 0.000 cfs
Time to peak = n/a
Hyd. volume = 0.000 acft
Max. Elevation = 1323.40 ft
Max. Storage = 0.507 acft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.02

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph description
1	SCS Runoff	10.87	2	722	0.714	---	----	-----	Parking & Adjacent
2	Reservoir	0.247	2	998	0.136	1	1323.52	0.589	<no description>
Bio-Retention_Pond.gpw					Return Period: 5 Year			Tuesday, Apr 24, 2007	

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.02

Tuesday, Apr 24, 2007

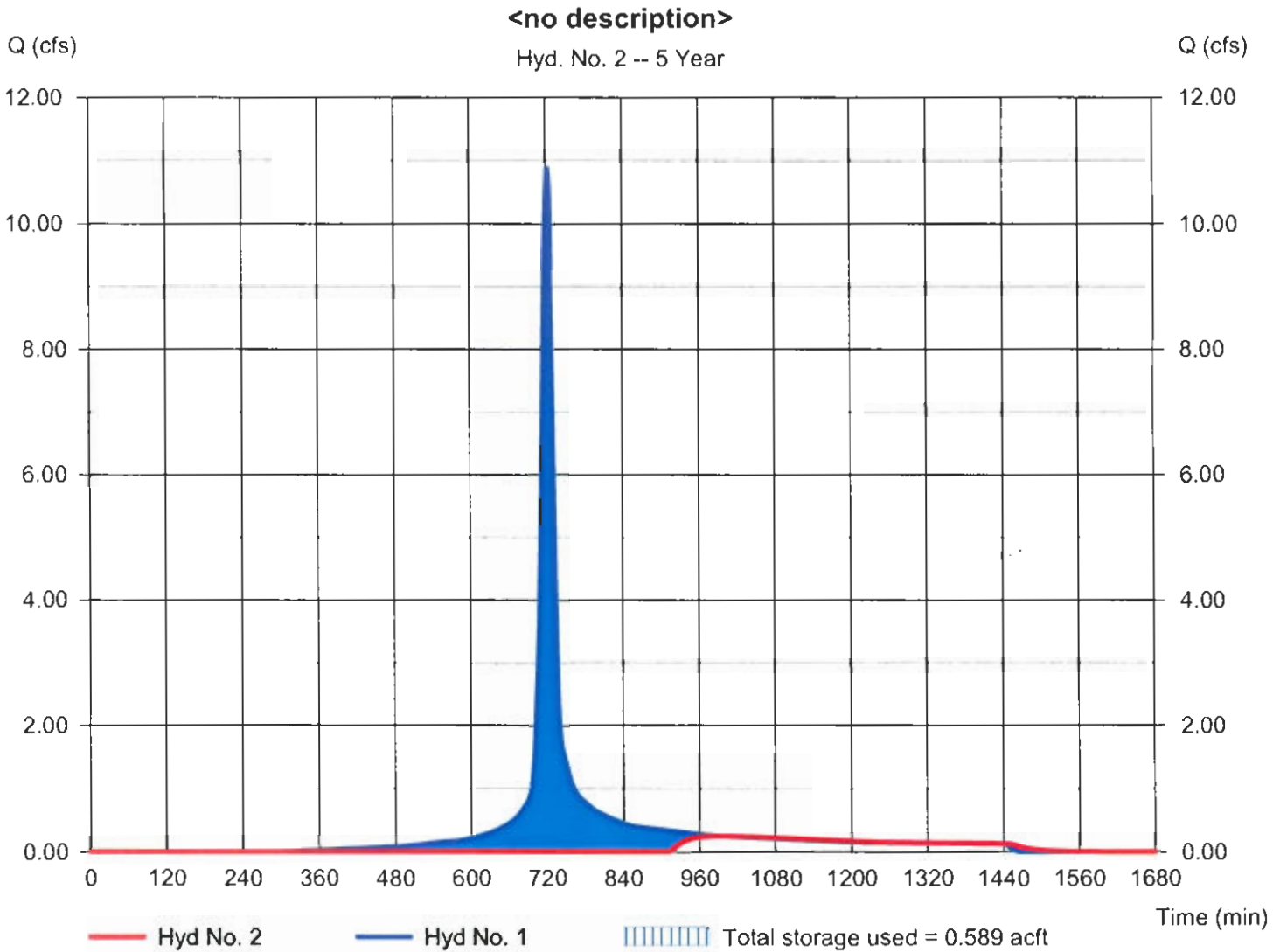
Hyd. No. 2

<no description>

Hydrograph type = Reservoir
Storm frequency = 5 yrs
Time interval = 2 min
Inflow hyd. No. = 1 - Parking & Adjacent
Reservoir name = <New Pond>

Peak discharge = 0.247 cfs
Time to peak = 998 min
Hyd. volume = 0.136 acft
Max. Elevation = 1323.52 ft
Max. Storage = 0.589 acft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.02

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph description
1	SCS Runoff	13.02	2	722	0.862	---	----	---	Parking & Adjacent
2	Reservoir	0.633	2	818	0.284	1	1323.54	0.605	<no description>
Bio-Retention_Pond.gpw					Return Period: 10 Year			Tuesday, Apr 24, 2007	

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.02

Tuesday, Apr 24, 2007

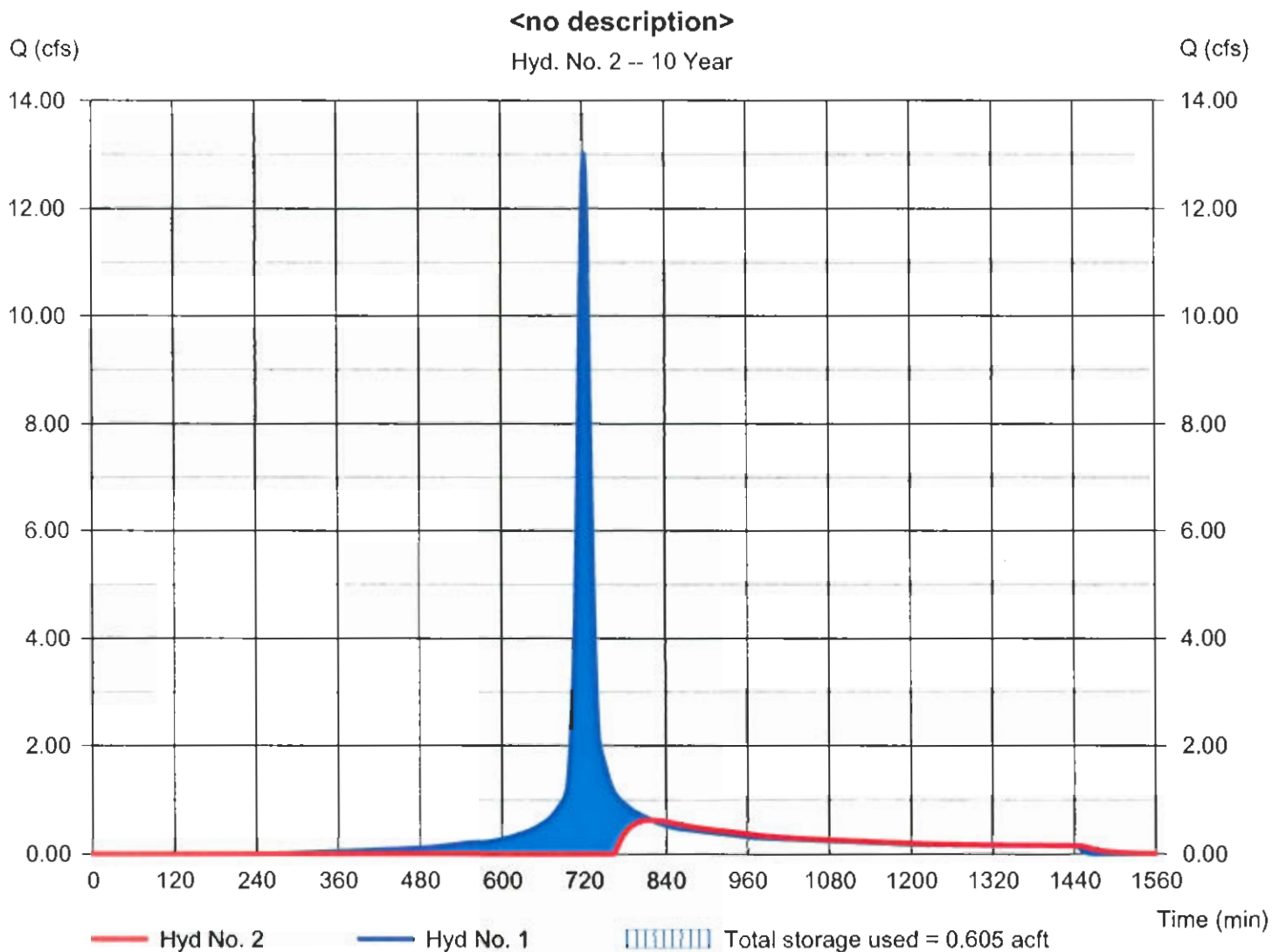
Hyd. No. 2

<no description>

Hydrograph type = Reservoir
 Storm frequency = 10 yrs
 Time interval = 2 min
 Inflow hyd. No. = 1 - Parking & Adjacent
 Reservoir name = <New Pond>

Peak discharge = 0.633 cfs
 Time to peak = 818 min
 Hyd. volume = 0.284 acft
 Max. Elevation = 1323.54 ft
 Max. Storage = 0.605 acft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.02

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph description
1	SCS Runoff	20.94	2	722	1.424	---	---	-----	Parking & Adjacent
2	Reservoir	7.724	2	734	0.845	1	1323.78	0.771	<no description>
Bio-Retention_Pond.gpw					Return Period: 100 Year		Tuesday, Apr 24, 2007		

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.02

Tuesday, Apr 24, 2007

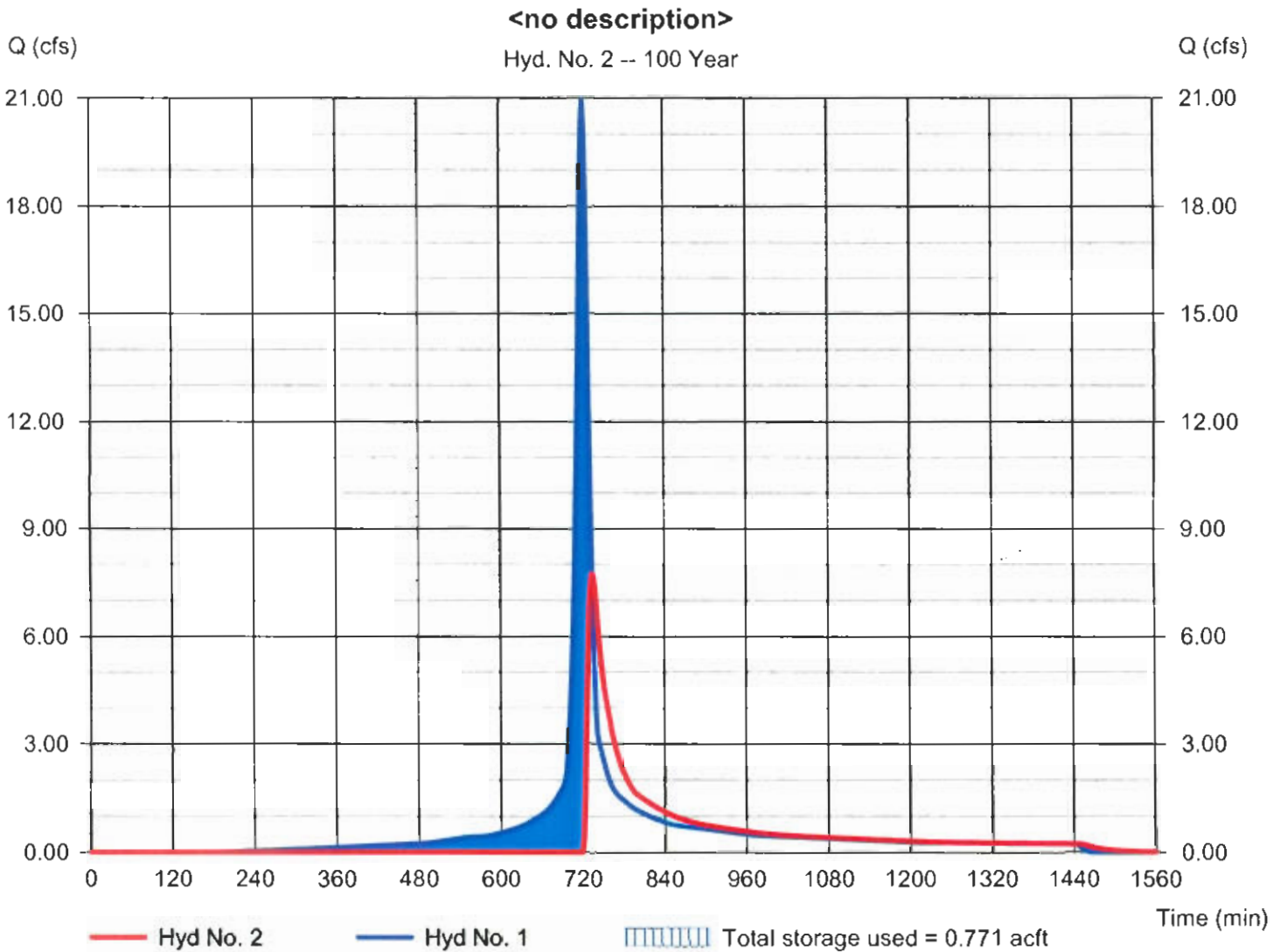
Hyd. No. 2

<no description>

Hydrograph type = Reservoir
Storm frequency = 100 yrs
Time interval = 2 min
Inflow hyd. No. = 1 - Parking & Adjacent
Reservoir name = <New Pond>

Peak discharge = 7.724 cfs
Time to peak = 734 min
Hyd. volume = 0.845 acft
Max. Elevation = 1323.78 ft
Max. Storage = 0.771 acft

Storage Indication method used.



Hydraflow Rainfall Report

Hydraflow Hydrographs by Intelisolve v9.02

Tuesday, Apr 24, 2007

Return Period (Yrs)	Intensity-Duration-Frequency Equation Coefficients (FHA)			
	B	D	E	(N/A)
1	0.0000	0.0000	0.0000	----
2	71.8477	13.3000	0.8718	----
3	0.0000	0.0000	0.0000	----
5	75.7517	14.2000	0.8271	----
10	86.7192	15.3000	0.8244	----
25	103.3026	16.6000	0.8227	----
50	116.5747	17.3000	0.8234	----
100	124.5734	17.6000	0.8144	----

File name: wich15min.IDF

Intensity = B / (Tc + D)^E

Return Period (Yrs)	Intensity Values (in/hr)											
	5 min	10	15	20	25	30	35	40	45	50	55	60
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	5.70	4.62	3.90	3.38	2.99	2.69	2.45	2.24	2.06	1.93	1.81	1.70
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	6.52	5.43	4.65	4.06	3.64	3.30	3.02	2.79	2.59	2.42	2.28	2.15
10	7.25	6.05	5.21	4.59	4.12	3.74	3.43	3.17	2.95	2.77	2.60	2.46
25	8.25	6.95	6.03	5.34	4.81	4.38	4.03	3.73	3.48	3.28	3.08	2.91
50	9.05	7.66	6.67	5.92	5.34	4.87	4.48	4.16	3.88	3.64	3.43	3.25
100	9.83	8.35	7.30	6.49	5.87	5.36	4.94	4.59	4.29	4.03	3.80	3.60

Tc = time in minutes. Values may exceed 60.

Precip. file name: SCS_24HR.pcp

Storm Distribution	Return Period (Yrs)							
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
SCS 24-hour	0.00	3.50	0.00	4.50	5.20	6.00	7.00	7.80
SCS 6-hr	0.00	1.80	0.00	0.00	2.60	0.00	0.00	4.00
Huff-1st	0.00	1.55	0.00	2.75	4.00	5.38	6.50	8.00
Huff-2nd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-3rd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-4th	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-indy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Custom	0.00	1.75	0.00	2.80	3.90	5.25	6.00	7.10