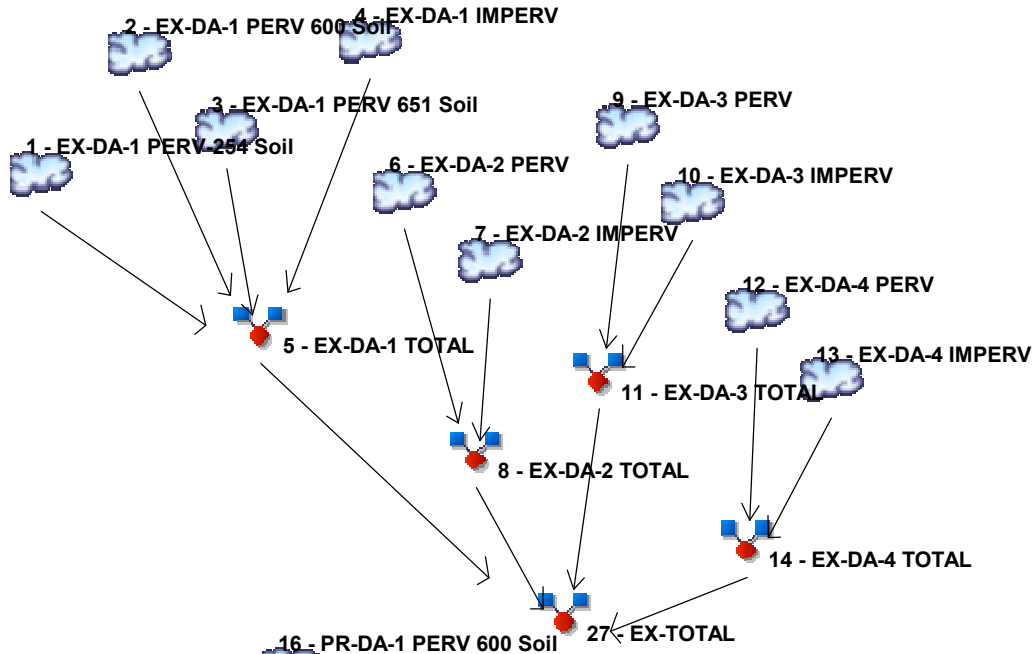


Watershed Model Schematic

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020



Legend

Hyd.	Origin	Description
1	SCS Runoff	EX-DA-1 PERV-254 Soil
2	SCS Runoff	EX-DA-1 PERV 600 Soil
3	SCS Runoff	EX-DA-1 PERV 651 Soil
4	SCS Runoff	EX-DA-1 IMPERV
5	Combine	EX-DA-1 TOTAL
6	SCS Runoff	EX-DA-2 PERV
7	SCS Runoff	EX-DA-2 IMPERV
8	Combine	EX-DA-2 TOTAL
9	SCS Runoff	EX-DA-3 PERV
10	SCS Runoff	EX-DA-3 IMPERV
11	Combine	EX-DA-3 TOTAL
12	SCS Runoff	EX-DA-4 PERV
13	SCS Runoff	EX-DA-4 IMPERV
14	Combine	EX-DA-4 TOTAL
15	SCS Runoff	PR-DA-1 PERV 254 Soil
16	SCS Runoff	PR-DA-1 PERV 600 Soil
17	SCS Runoff	PR-DA-1 PERV 651 Soil
18	SCS Runoff	PR-DA-1 IMPERV
19	Combine	PR-DA-1 TOTAL
20	SCS Runoff	PR-DA-2 PERV
21	SCS Runoff	PR-DA-2 IMPERV
22	Combine	PR-DA-2 TOTAL
23	SCS Runoff	PR-DA-3 PERV
24	SCS Runoff	PR-DA-3 IMPERV
25	Combine	PR-DA-3 TOTAL
26	SCS Runoff	PR-DA-4 PERV
27	Combine	EX-TOTAL
28	Combine	PR-TOTAL

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Hydrograph Return Period Recap

Hydroflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

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	----	----	0.003	----	----	0.073	----	----	0.347	EX-DA-1 PERV-254 Soil
2	SCS Runoff	----	----	1.003	----	----	1.931	----	----	3.429	EX-DA-1 PERV 600 Soil
3	SCS Runoff	----	----	0.011	----	----	0.282	----	----	1.346	EX-DA-1 PERV 651 Soil
4	SCS Runoff	----	----	17.12	----	----	26.92	----	----	42.40	EX-DA-1 IMPERV
5	Combine	1, 2, 3, 4	----	18.12	----	----	29.15	----	----	47.50	EX-DA-1 TOTAL
6	SCS Runoff	----	----	0.004	----	----	0.110	----	----	0.528	EX-DA-2 PERV
7	SCS Runoff	----	----	1.702	----	----	2.676	----	----	4.213	EX-DA-2 IMPERV
8	Combine	6, 7	----	1.702	----	----	2.774	----	----	4.741	EX-DA-2 TOTAL
9	SCS Runoff	----	----	0.009	----	----	0.267	----	----	1.283	EX-DA-3 PERV
10	SCS Runoff	----	----	2.745	----	----	4.315	----	----	6.795	EX-DA-3 IMPERV
11	Combine	9, 10	----	2.745	----	----	4.553	----	----	8.078	EX-DA-3 TOTAL
12	SCS Runoff	----	----	0.001	----	----	0.032	----	----	0.152	EX-DA-4 PERV
13	SCS Runoff	----	----	0.535	----	----	0.841	----	----	1.325	EX-DA-4 IMPERV
14	Combine	12, 13	----	0.535	----	----	0.869	----	----	1.477	EX-DA-4 TOTAL
15	SCS Runoff	----	----	0.008	----	----	0.212	----	----	1.013	PR-DA-1 PERV 254 Soil
16	SCS Runoff	----	----	1.507	----	----	2.902	----	----	5.153	PR-DA-1 PERV 600 Soil
17	SCS Runoff	----	----	0.016	----	----	0.403	----	----	1.924	PR-DA-1 PERV 651 Soil
18	SCS Runoff	----	----	14.48	----	----	22.76	----	----	35.85	PR-DA-1 IMPERV
19	Combine	15, 16, 17, 18	----	15.98	----	----	26.18	----	----	43.90	PR-DA-1 TOTAL
20	SCS Runoff	----	----	0.007	----	----	0.192	----	----	0.924	PR-DA-2 PERV
21	SCS Runoff	----	----	0.977	----	----	1.535	----	----	2.417	PR-DA-2 IMPERV
22	Combine	20, 21	----	0.977	----	----	1.707	----	----	3.342	PR-DA-2 TOTAL
23	SCS Runoff	----	----	0.006	----	----	0.165	----	----	0.791	PR-DA-3 PERV
24	SCS Runoff	----	----	3.758	----	----	5.908	----	----	9.302	PR-DA-3 IMPERV
25	Combine	23, 24	----	3.758	----	----	6.054	----	----	10.09	PR-DA-3 TOTAL
26	SCS Runoff	----	----	0.003	----	----	0.100	----	----	0.480	PR-DA-4 PERV
27	Combine	5, 8, 11, 14,	----	22.54	----	----	36.50	----	----	60.31	EX-TOTAL
28	Combine	19, 22, 25, 26,	----	20.18	----	----	33.23	----	----	56.39	PR-TOTAL

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

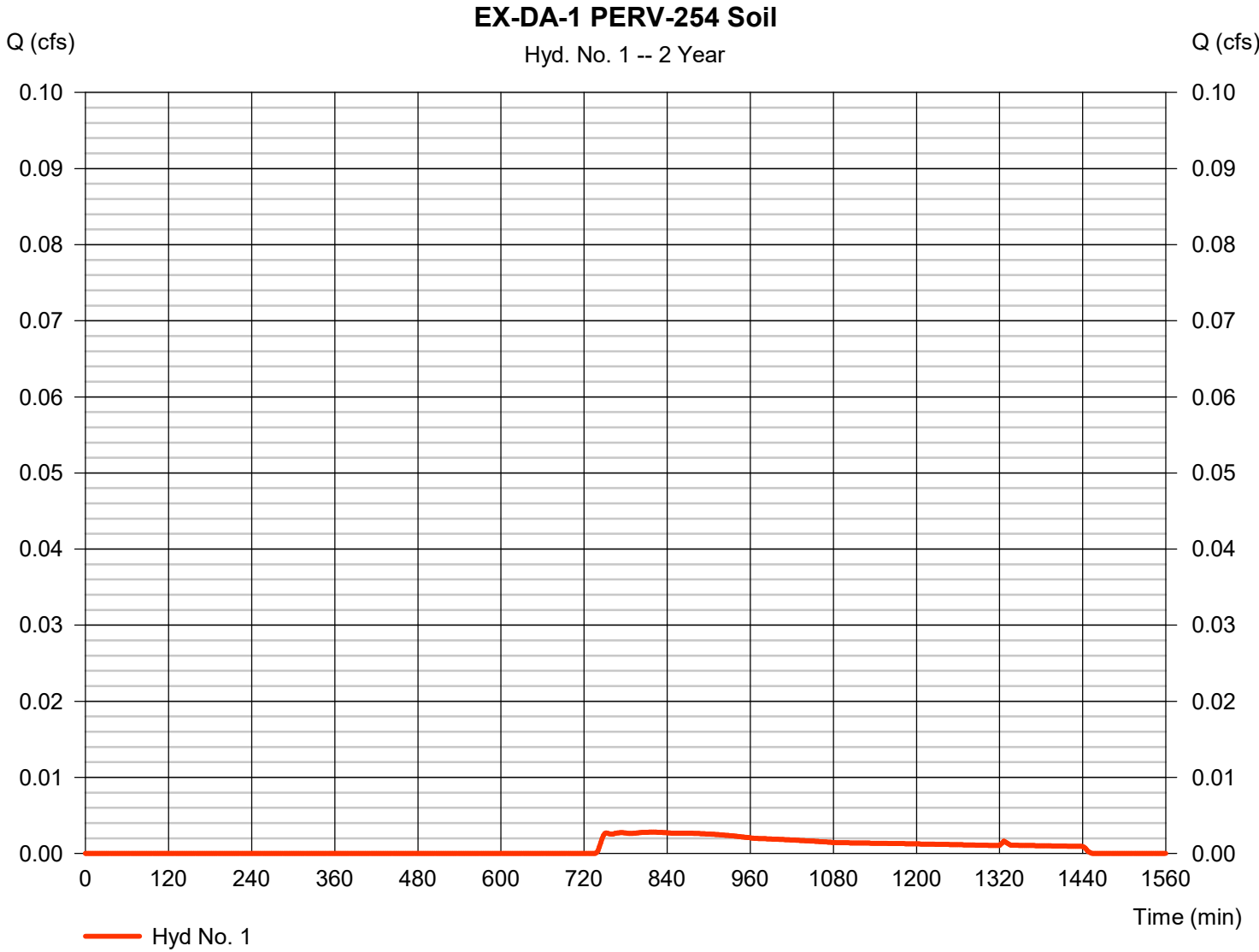
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	0.003	2	818	72	----	----	----	EX-DA-1 PERV-254 Soil
2	SCS Runoff	1.003	2	726	3,428	----	----	----	EX-DA-1 PERV 600 Soil
3	SCS Runoff	0.011	2	818	280	----	----	----	EX-DA-1 PERV 651 Soil
4	SCS Runoff	17.12	2	726	65,424	----	----	----	EX-DA-1 IMPERV
5	Combine	18.12	2	726	69,203	1, 2, 3, 4	----	----	EX-DA-1 TOTAL
6	SCS Runoff	0.004	2	748	96	----	----	----	EX-DA-2 PERV
7	SCS Runoff	1.702	2	724	5,743	----	----	----	EX-DA-2 IMPERV
8	Combine	1.702	2	724	5,838	6, 7	----	----	EX-DA-2 TOTAL
9	SCS Runoff	0.009	2	748	232	----	----	----	EX-DA-3 PERV
10	SCS Runoff	2.745	2	724	9,262	----	----	----	EX-DA-3 IMPERV
11	Combine	2.745	2	724	9,494	9, 10	----	----	EX-DA-3 TOTAL
12	SCS Runoff	0.001	2	748	28	----	----	----	EX-DA-4 PERV
13	SCS Runoff	0.535	2	724	1,805	----	----	----	EX-DA-4 IMPERV
14	Combine	0.535	2	724	1,833	12, 13	----	----	EX-DA-4 TOTAL
15	SCS Runoff	0.008	2	818	210	----	----	----	PR-DA-1 PERV 254 Soil
16	SCS Runoff	1.507	2	726	5,151	----	----	----	PR-DA-1 PERV 600 Soil
17	SCS Runoff	0.016	2	818	400	----	----	----	PR-DA-1 PERV 651 Soil
18	SCS Runoff	14.48	2	726	55,316	----	----	----	PR-DA-1 IMPERV
19	Combine	15.98	2	726	61,077	15, 16, 17, 18	----	----	PR-DA-1 TOTAL
20	SCS Runoff	0.007	2	748	167	----	----	----	PR-DA-2 PERV
21	SCS Runoff	0.977	2	724	3,295	----	----	----	PR-DA-2 IMPERV
22	Combine	0.977	2	724	3,462	20, 21	----	----	PR-DA-2 TOTAL
23	SCS Runoff	0.006	2	748	143	----	----	----	PR-DA-3 PERV
24	SCS Runoff	3.758	2	724	12,679	----	----	----	PR-DA-3 IMPERV
25	Combine	3.758	2	724	12,822	23, 24	----	----	PR-DA-3 TOTAL
26	SCS Runoff	0.003	2	748	87	----	----	----	PR-DA-4 PERV
27	Combine	22.54	2	726	86,369	5, 8, 11, 14,	----	----	EX-TOTAL
28	Combine	20.18	2	726	77,448	19, 22, 25, 26,	----	----	PR-TOTAL

Hydrograph Report

Hyd. No. 1

EX-DA-1 PERV-254 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 0.003 cfs
Storm frequency	= 2 yrs	Time to peak	= 818 min
Time interval	= 2 min	Hyd. volume	= 72 cuft
Drainage area	= 0.174 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

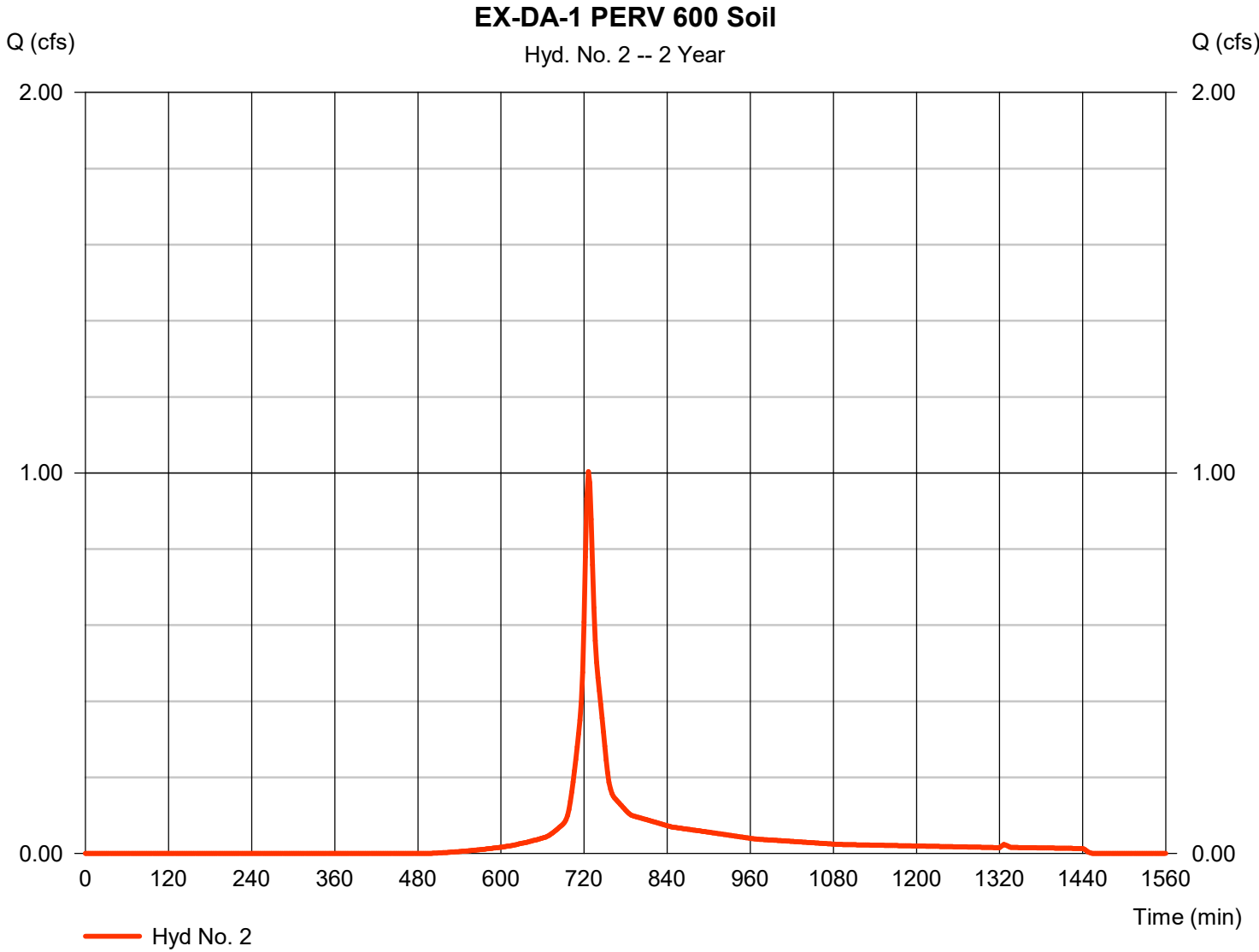


Hydrograph Report

Hyd. No. 2

EX-DA-1 PERV 600 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 1.003 cfs
Storm frequency	= 2 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 3,428 cuft
Drainage area	= 0.553 ac	Curve number	= 84
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

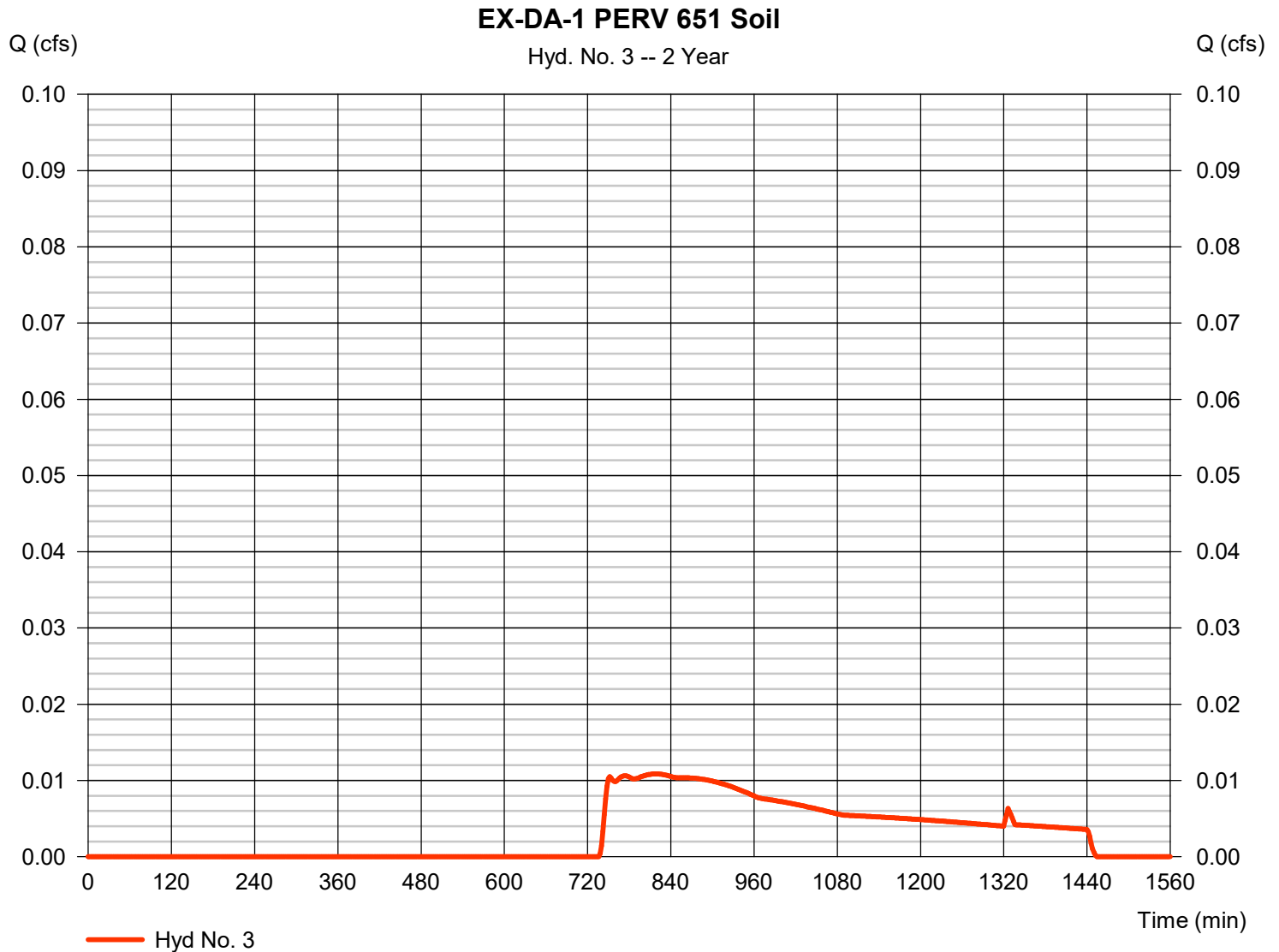


Hydrograph Report

Hyd. No. 3

EX-DA-1 PERV 651 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 0.011 cfs
Storm frequency	= 2 yrs	Time to peak	= 818 min
Time interval	= 2 min	Hyd. volume	= 280 cuft
Drainage area	= 0.675 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

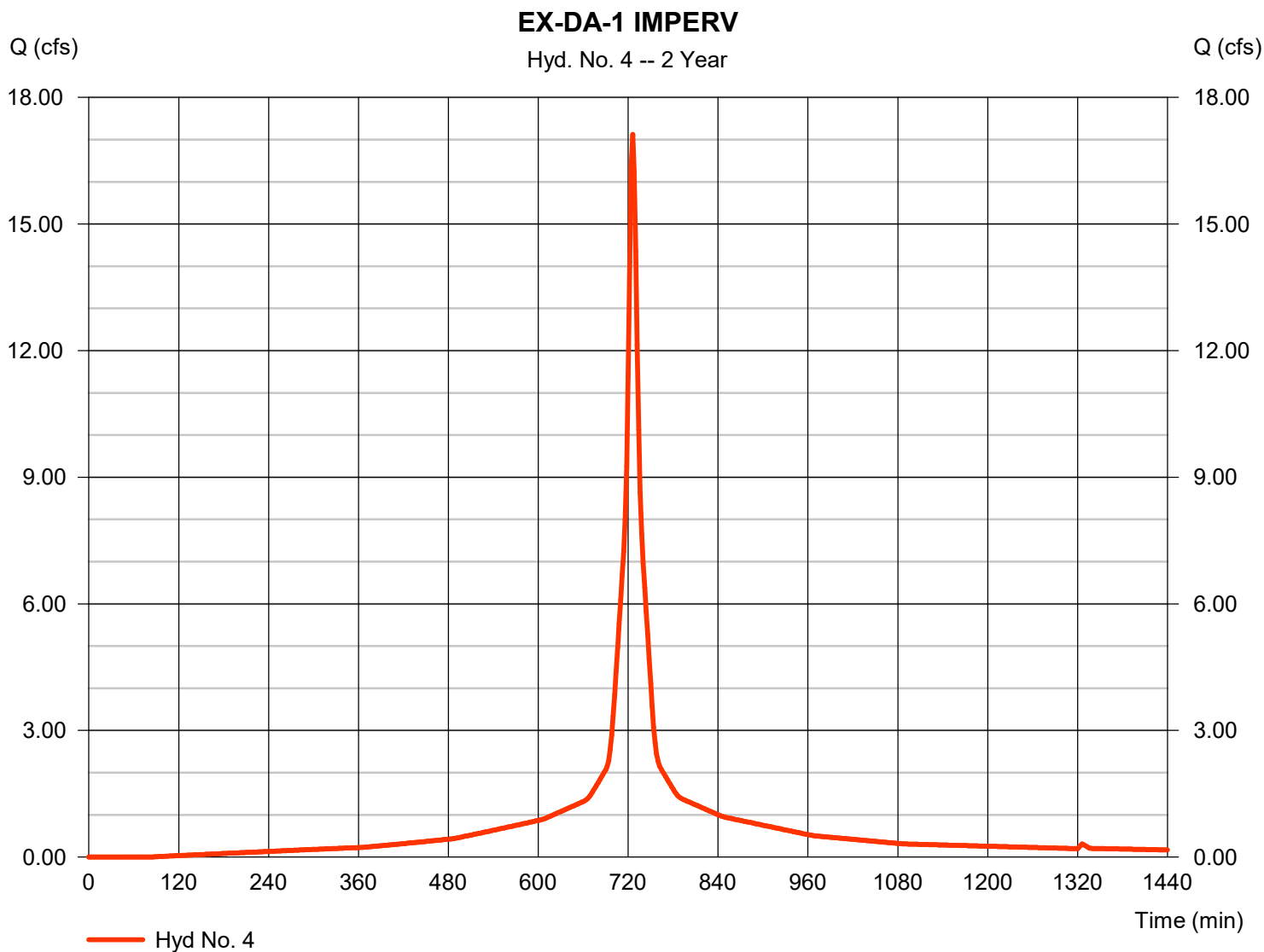
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Friday, 02 / 28 / 2020

Hyd. No. 4

EX-DA-1 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 17.12 cfs
Storm frequency	= 2 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 65,424 cuft
Drainage area	= 6.013 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

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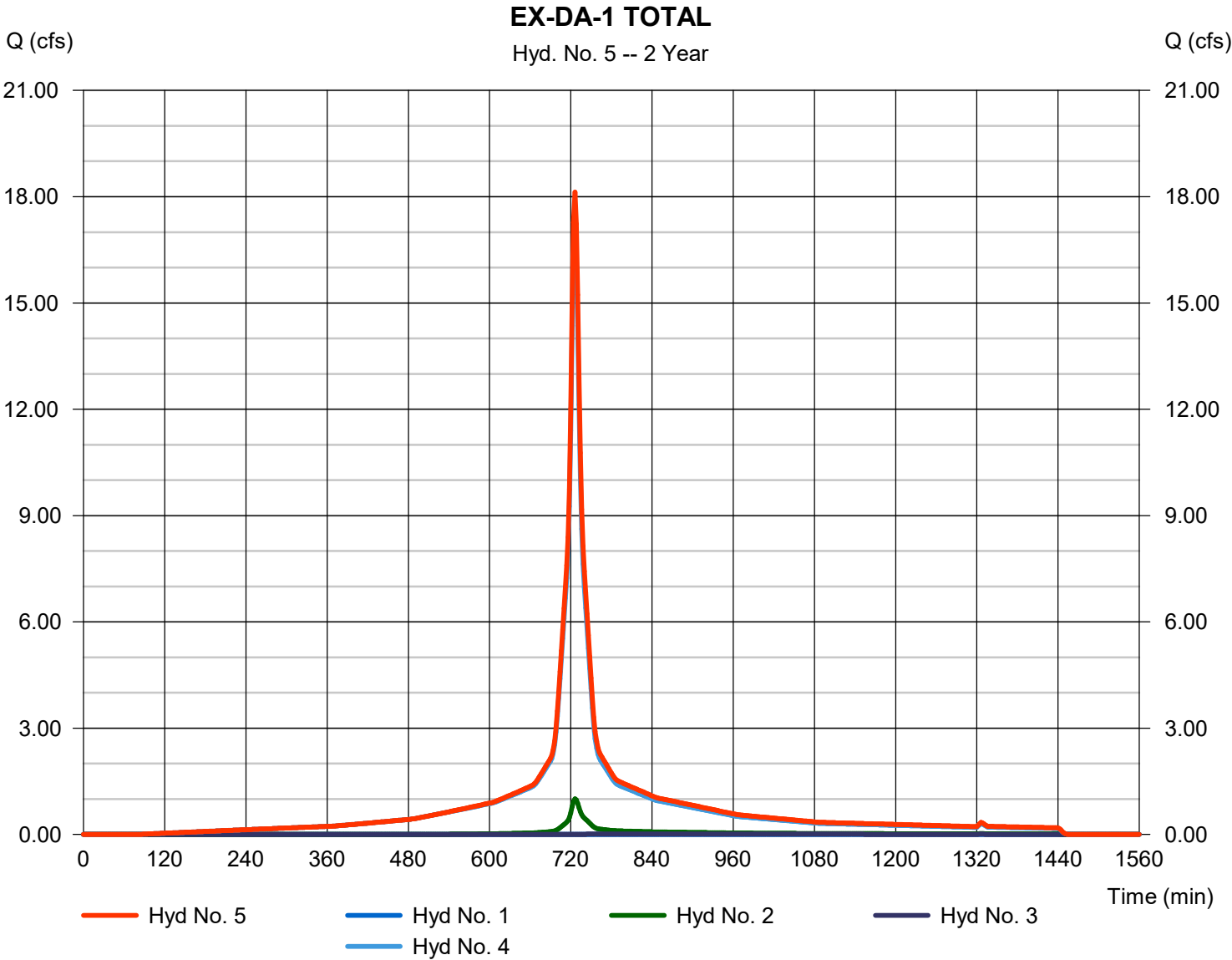
Friday, 02 / 28 / 2020

Hyd. No. 5

EX-DA-1 TOTAL

Hydrograph type = Combine
Storm frequency = 2 yrs
Time interval = 2 min
Inflow hyds. = 1, 2, 3, 4

Peak discharge = 18.12 cfs
Time to peak = 726 min
Hyd. volume = 69,203 cuft
Contrib. drain. area = 7.415 ac

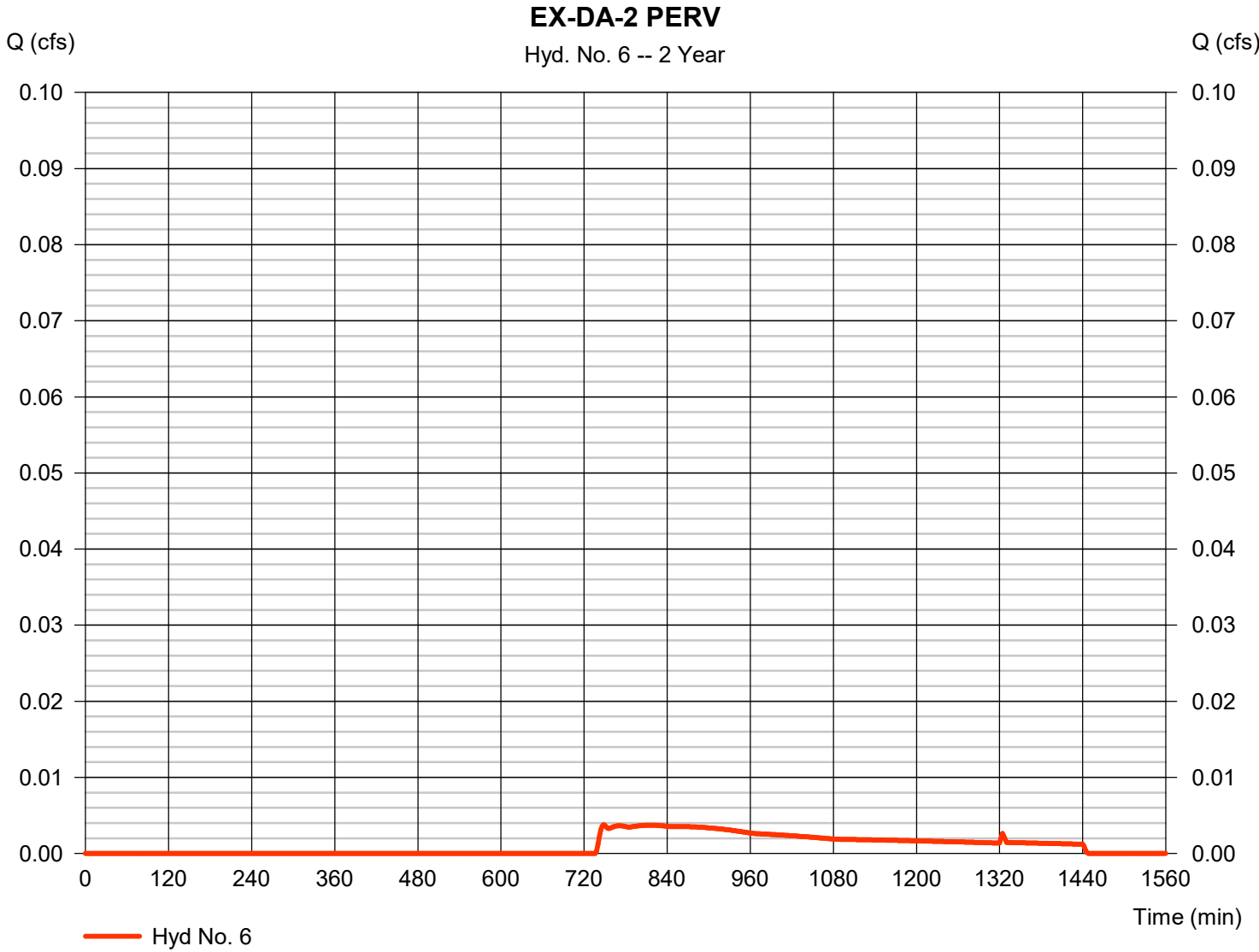


Hydrograph Report

Hyd. No. 6

EX-DA-2 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.004 cfs
Storm frequency	= 2 yrs	Time to peak	= 748 min
Time interval	= 2 min	Hyd. volume	= 96 cuft
Drainage area	= 0.246 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

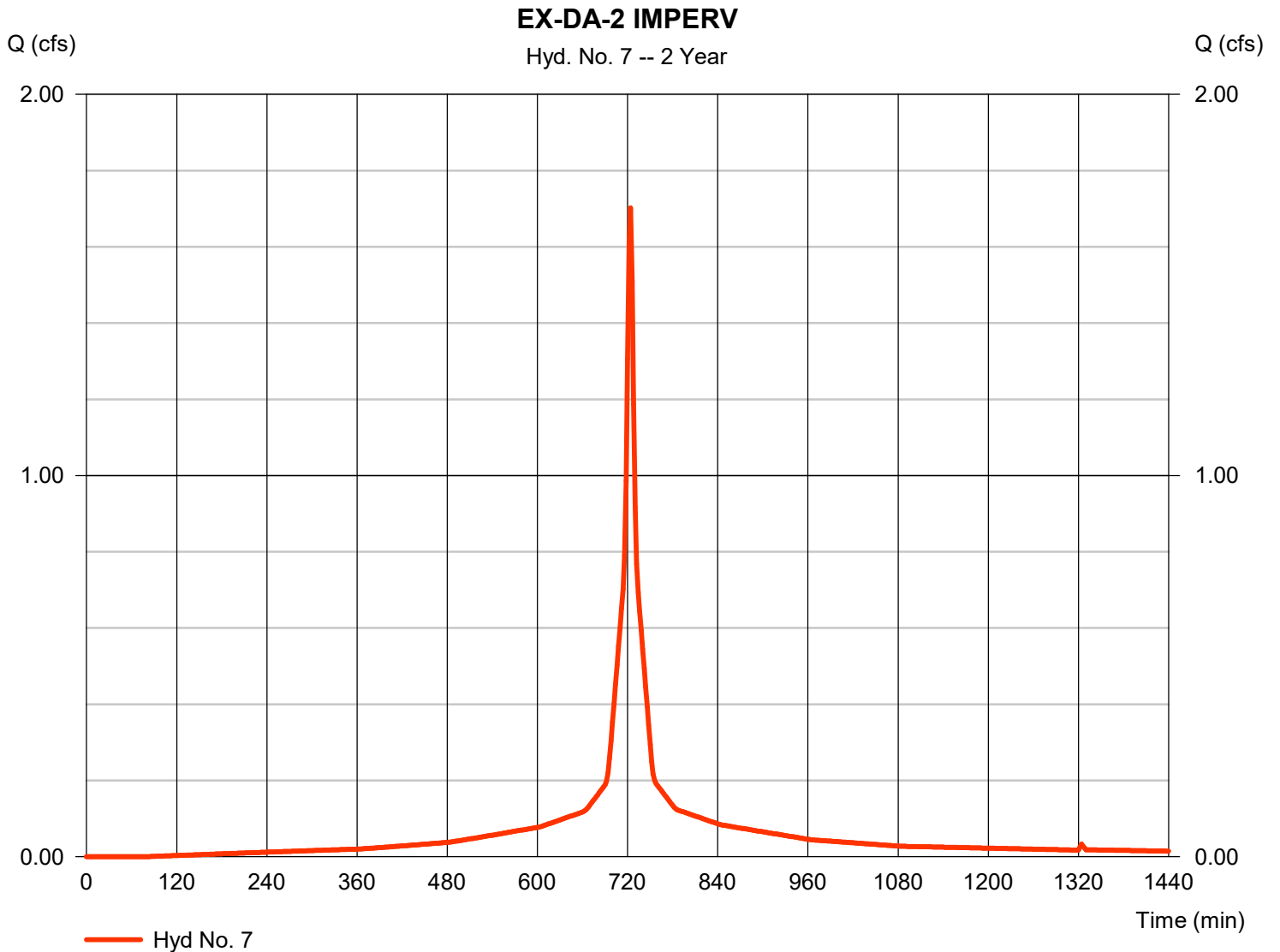
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Hyd. No. 7

EX-DA-2 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 1.702 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 5,743 cuft
Drainage area	= 0.563 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

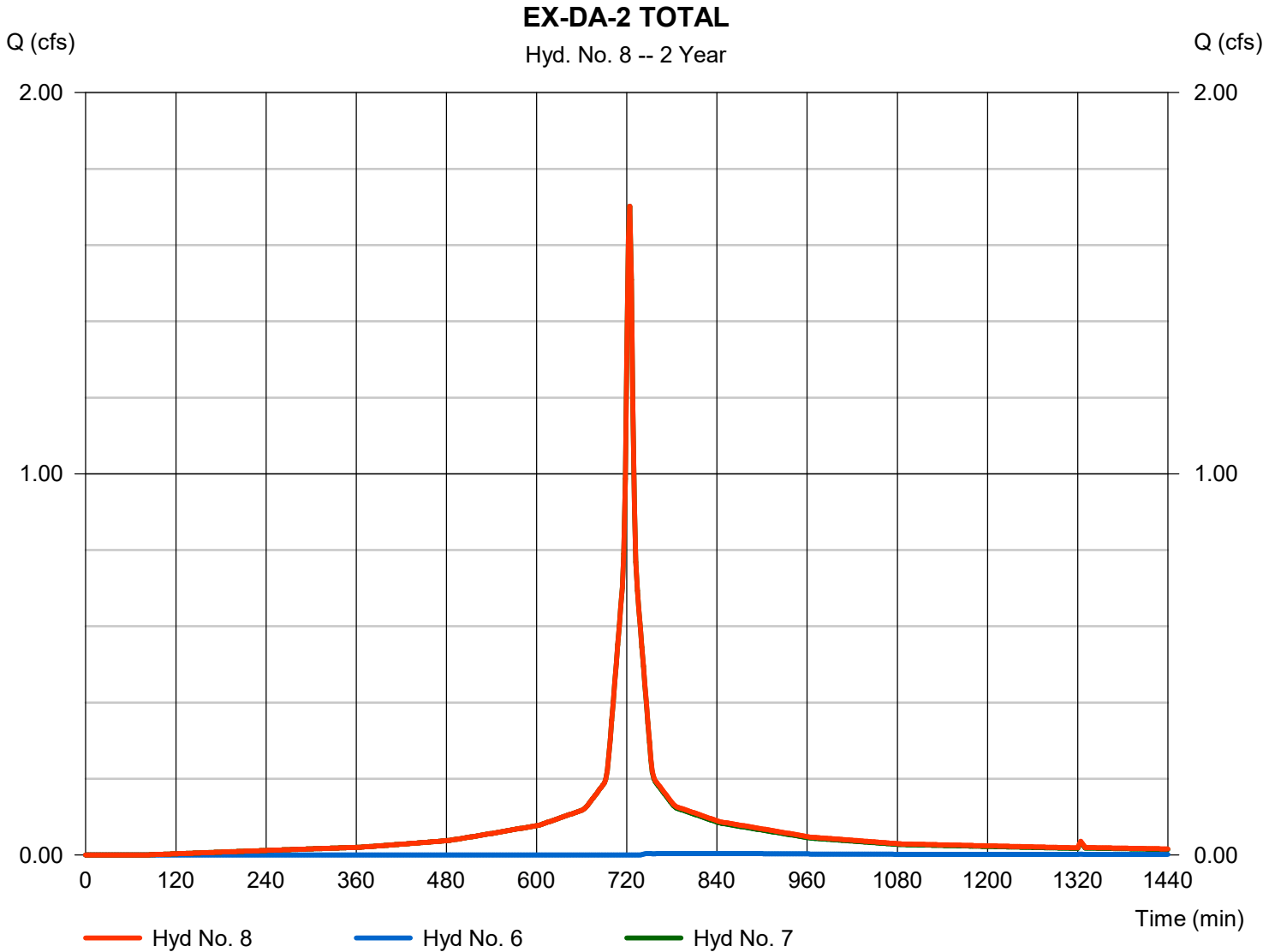
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Friday, 02 / 28 / 2020

Hyd. No. 8

EX-DA-2 TOTAL

Hydrograph type	= Combine	Peak discharge	= 1.702 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 5,838 cuft
Inflow hyds.	= 6, 7	Contrib. drain. area	= 0.809 ac



Hydrograph Report

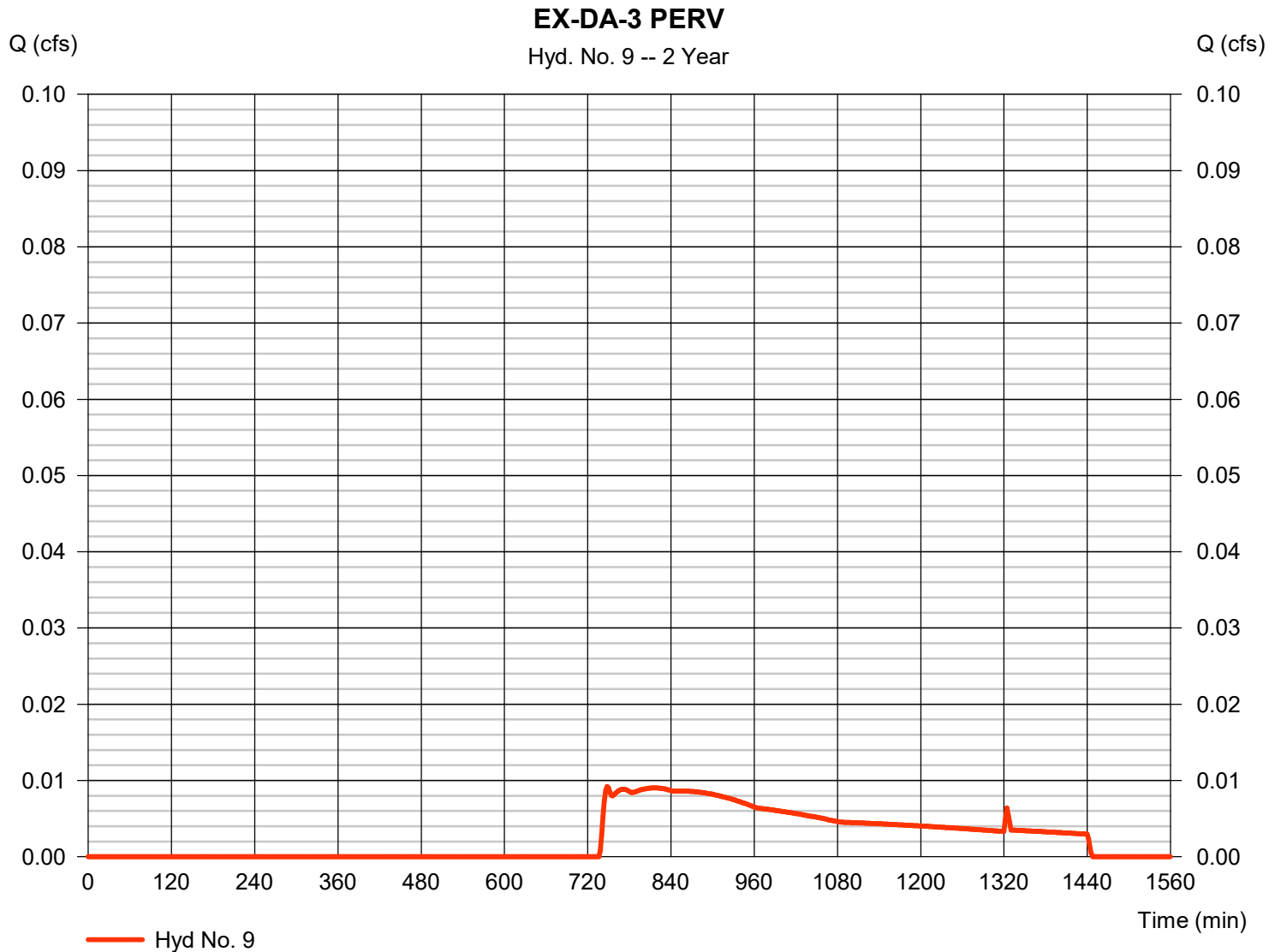
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Friday, 02 / 28 / 2020

Hyd. No. 9

EX-DA-3 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.009 cfs
Storm frequency	= 2 yrs	Time to peak	= 748 min
Time interval	= 2 min	Hyd. volume	= 232 cuft
Drainage area	= 0.598 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.40 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

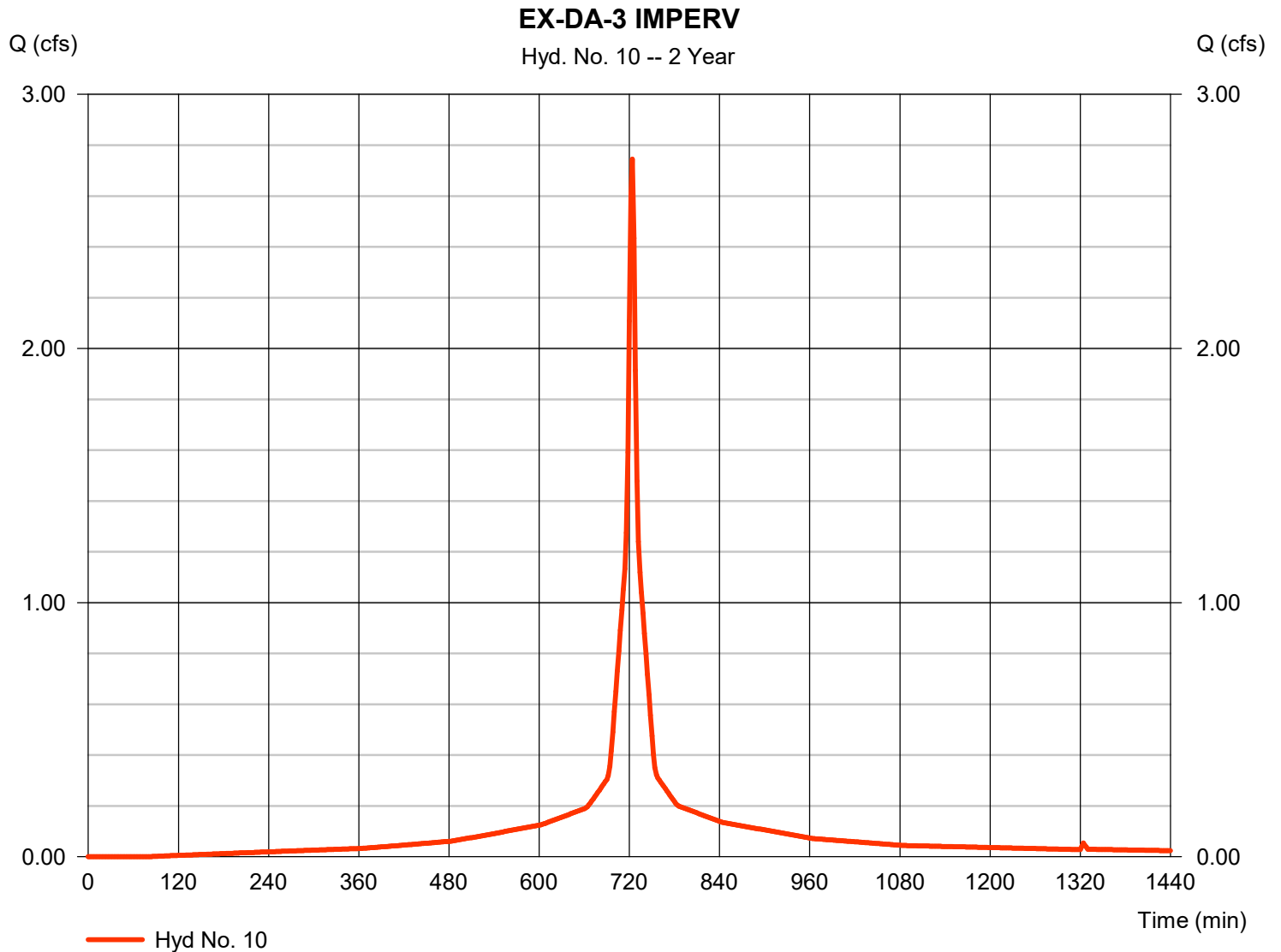
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Friday, 02 / 28 / 2020

Hyd. No. 10

EX-DA-3 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 2.745 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 9,262 cuft
Drainage area	= 0.908 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.40 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

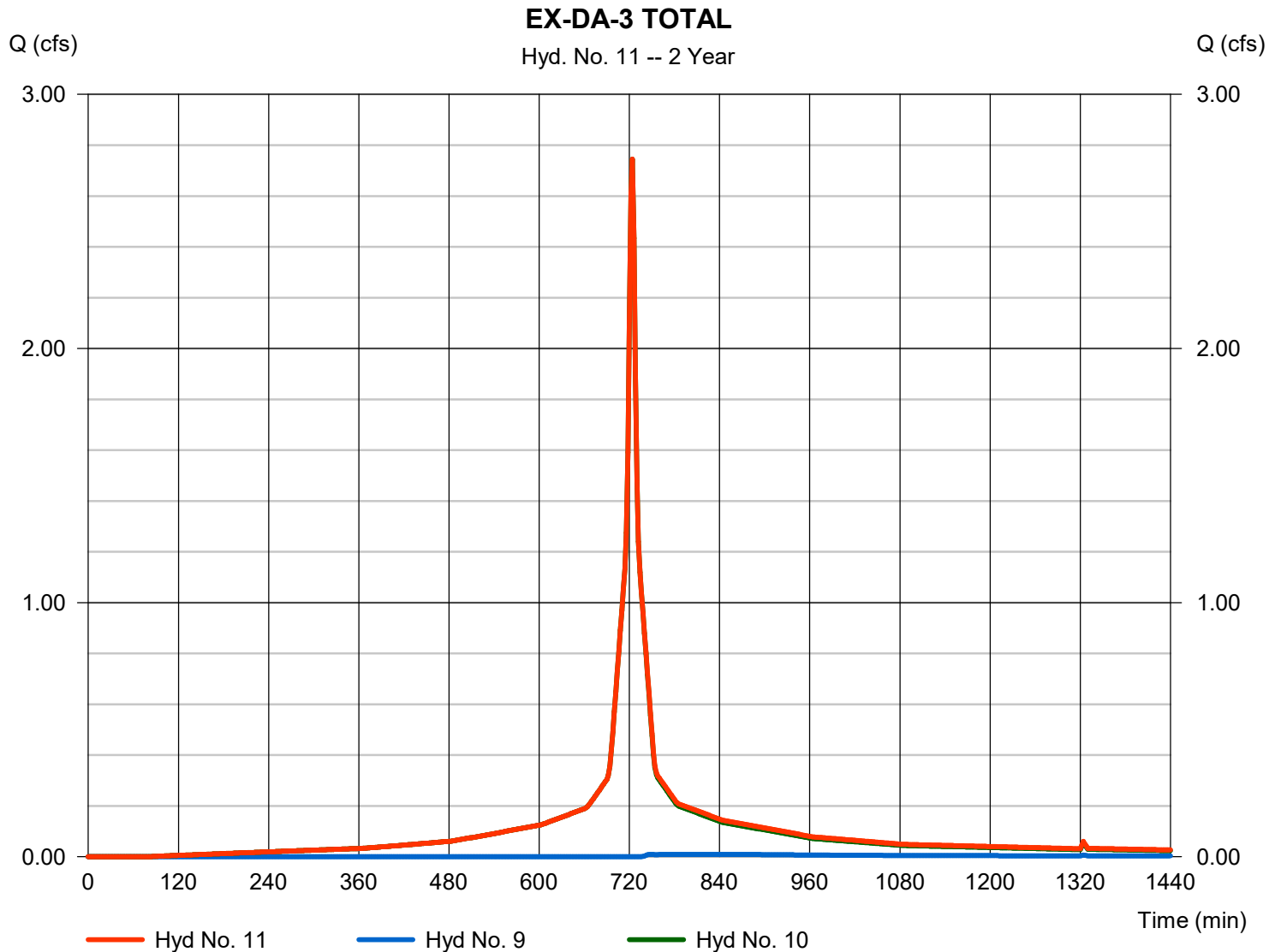
Friday, 02 / 28 / 2020

Hyd. No. 11

EX-DA-3 TOTAL

Hydrograph type = Combine
Storm frequency = 2 yrs
Time interval = 2 min
Inflow hyds. = 9, 10

Peak discharge = 2.745 cfs
Time to peak = 724 min
Hyd. volume = 9,494 cuft
Contrib. drain. area = 1.506 ac



Hydrograph Report

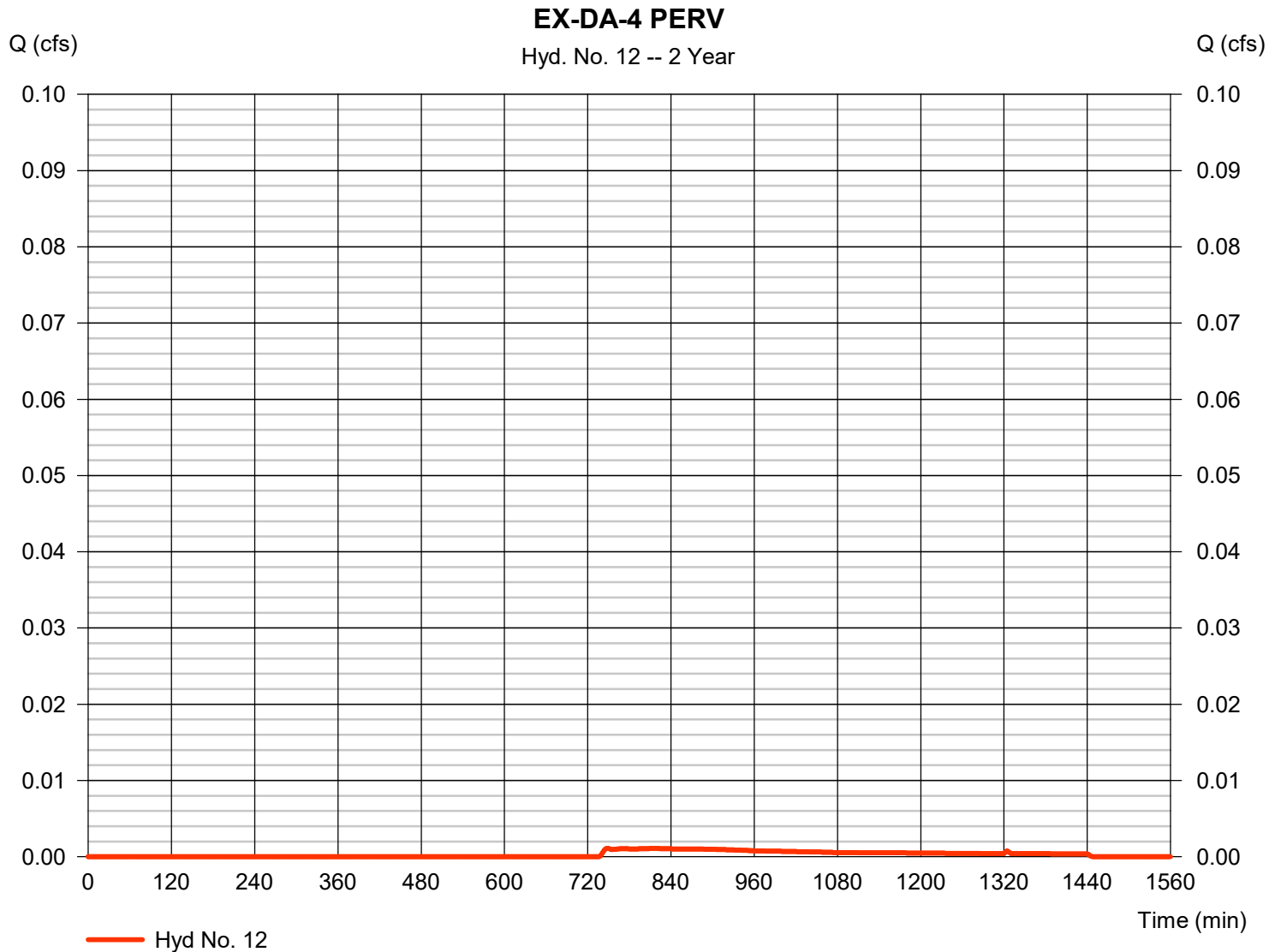
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Friday, 02 / 28 / 2020

Hyd. No. 12

EX-DA-4 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.001 cfs
Storm frequency	= 2 yrs	Time to peak	= 748 min
Time interval	= 2 min	Hyd. volume	= 28 cuft
Drainage area	= 0.071 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

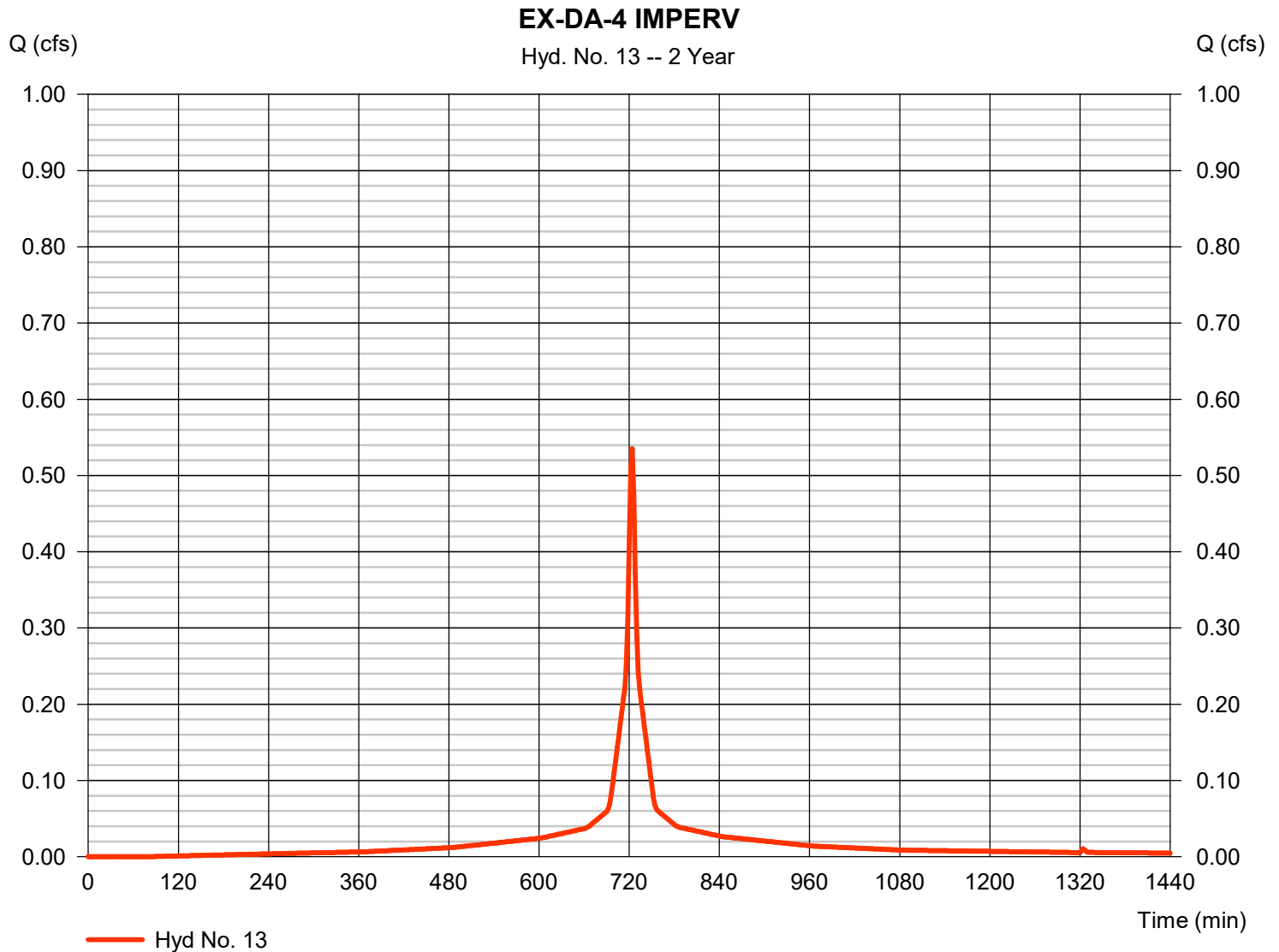
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Friday, 02 / 28 / 2020

Hyd. No. 13

EX-DA-4 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.535 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 1,805 cuft
Drainage area	= 0.177 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

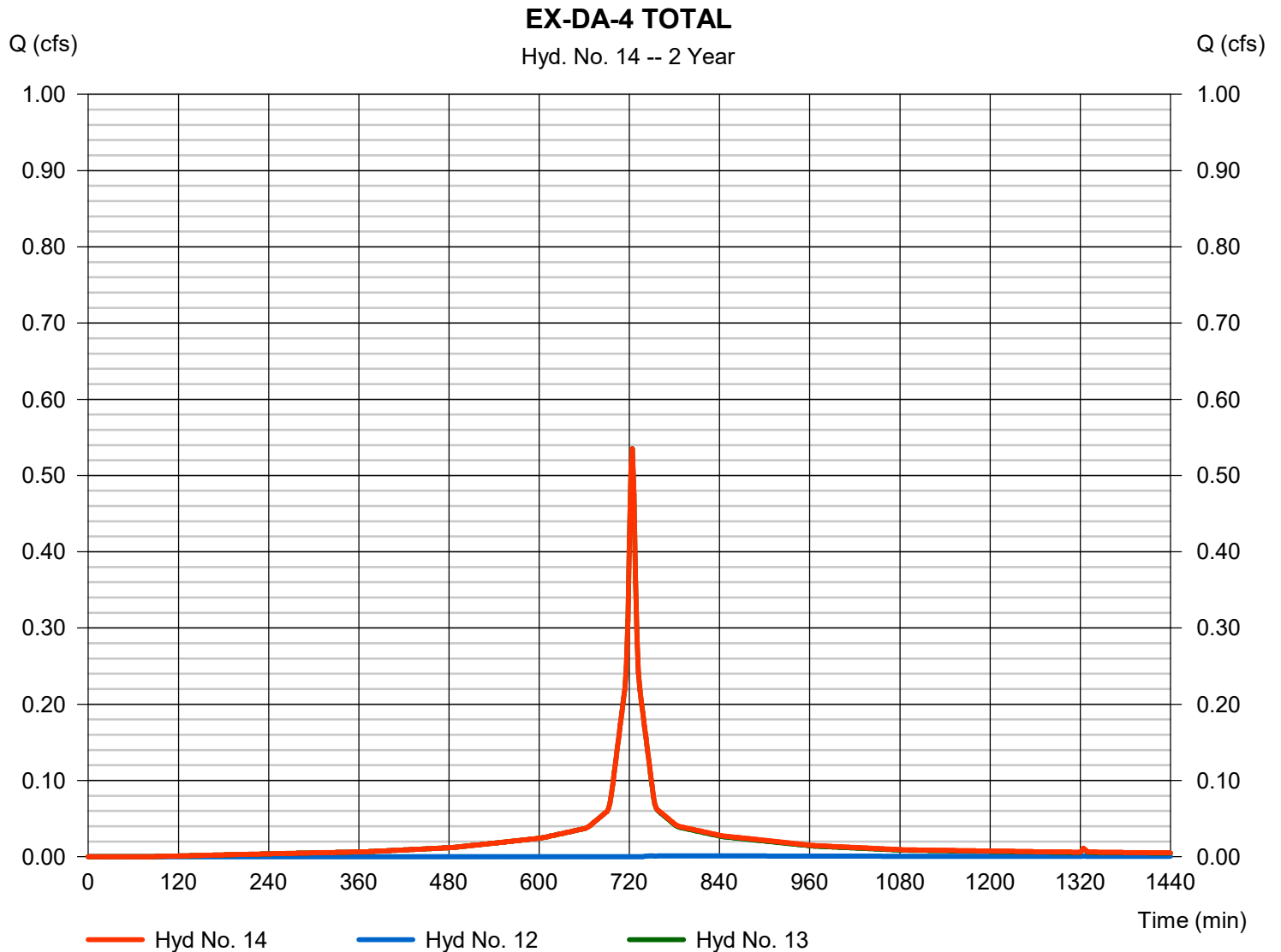
Friday, 02 / 28 / 2020

Hyd. No. 14

EX-DA-4 TOTAL

Hydrograph type = Combine
Storm frequency = 2 yrs
Time interval = 2 min
Inflow hyds. = 12, 13

Peak discharge = 0.535 cfs
Time to peak = 724 min
Hyd. volume = 1,833 cuft
Contrib. drain. area = 0.248 ac



Hydrograph Report

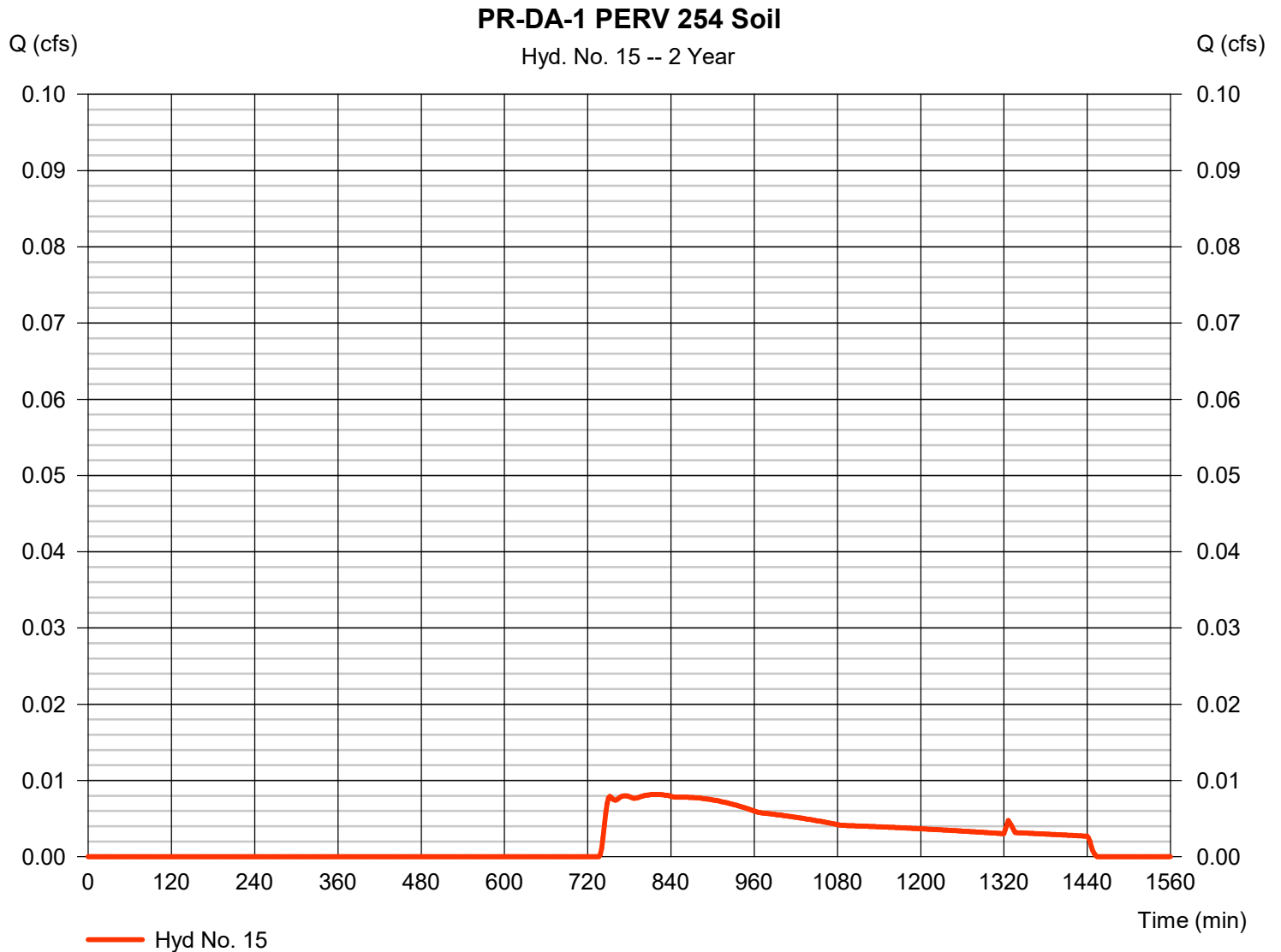
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Friday, 02 / 28 / 2020

Hyd. No. 15

PR-DA-1 PERV 254 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 0.008 cfs
Storm frequency	= 2 yrs	Time to peak	= 818 min
Time interval	= 2 min	Hyd. volume	= 210 cuft
Drainage area	= 0.508 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

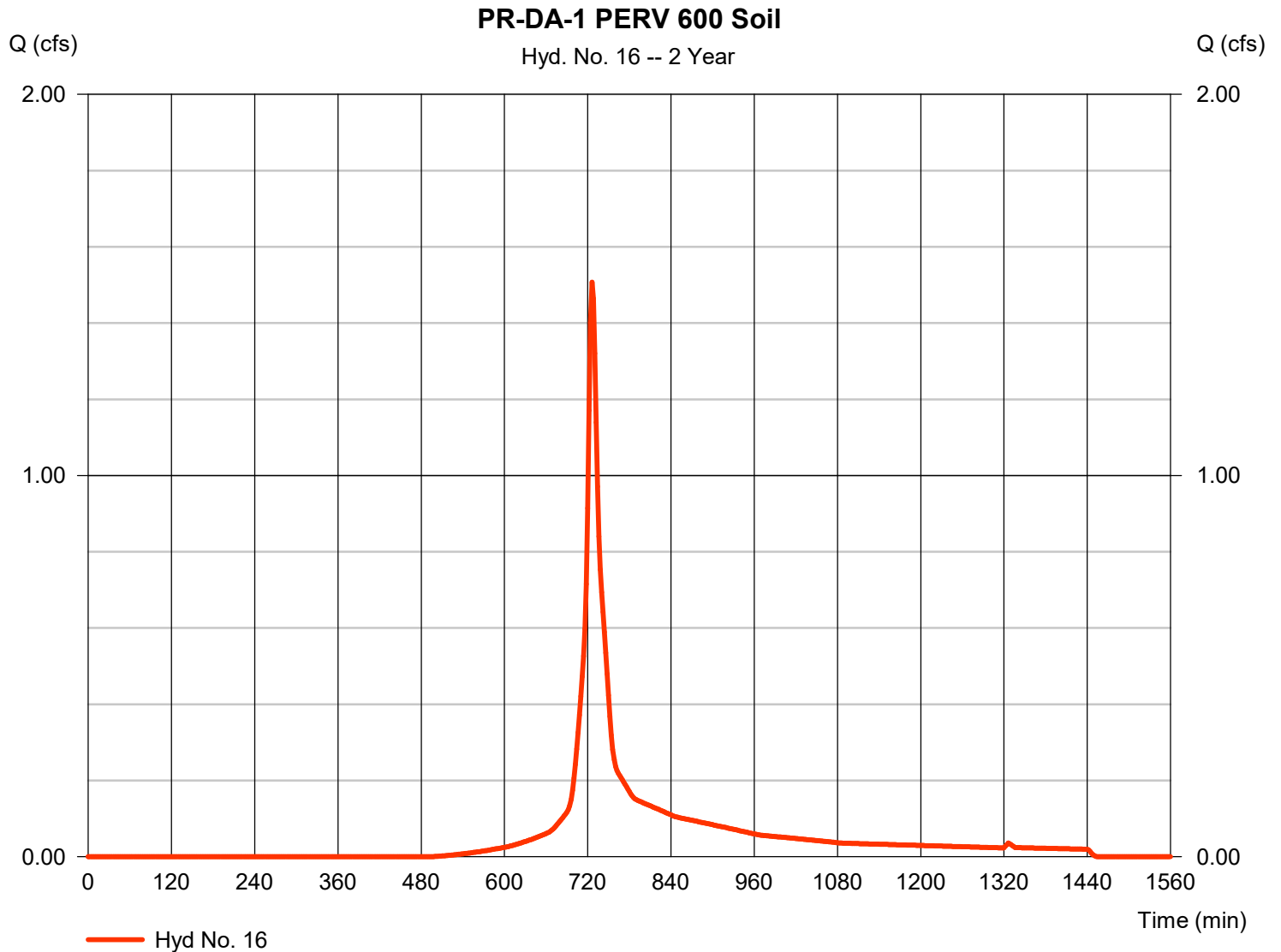
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Friday, 02 / 28 / 2020

Hyd. No. 16

PR-DA-1 PERV 600 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 1.507 cfs
Storm frequency	= 2 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 5,151 cuft
Drainage area	= 0.831 ac	Curve number	= 84
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

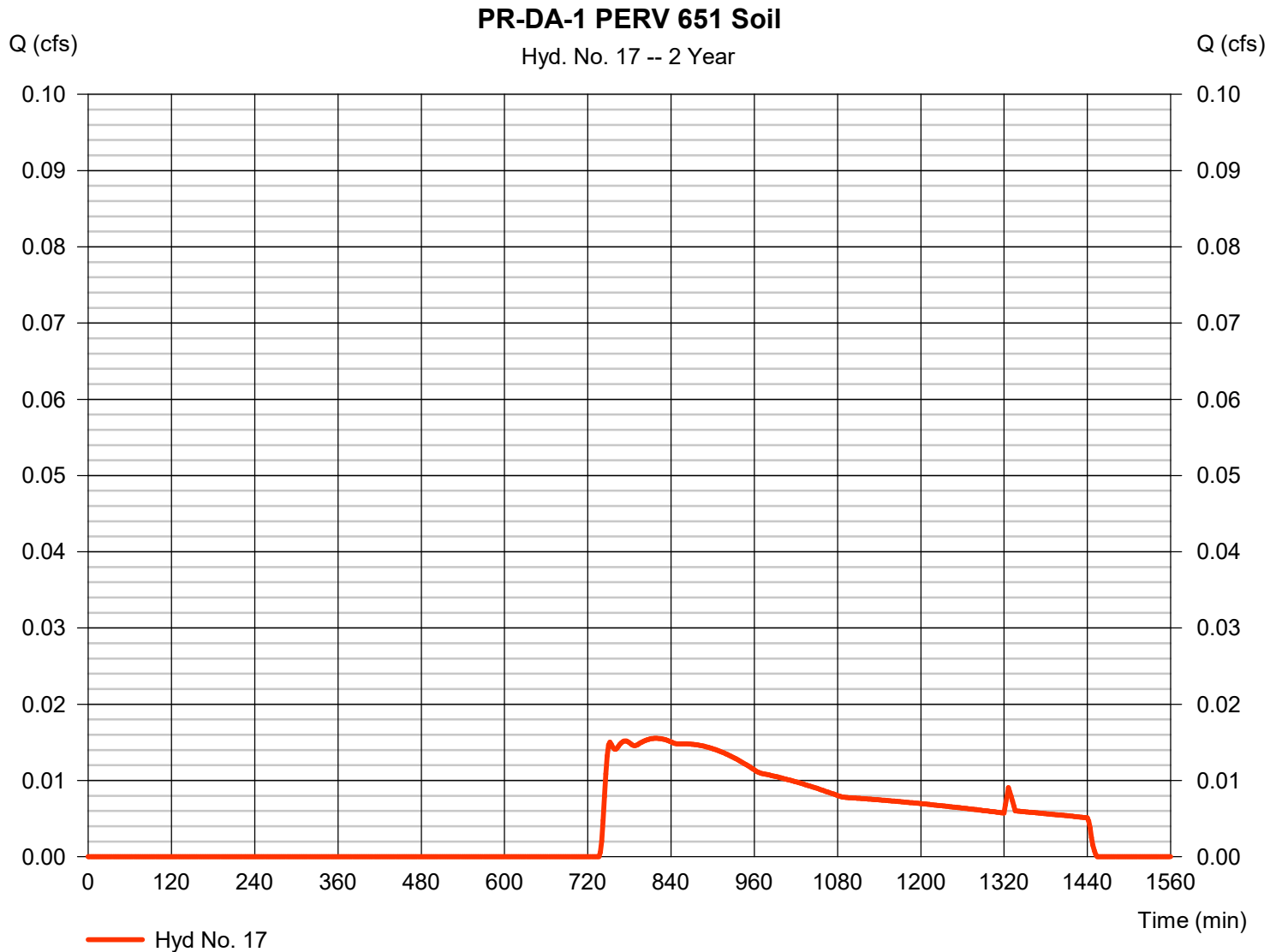
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Friday, 02 / 28 / 2020

Hyd. No. 17

PR-DA-1 PERV 651 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 0.016 cfs
Storm frequency	= 2 yrs	Time to peak	= 818 min
Time interval	= 2 min	Hyd. volume	= 400 cuft
Drainage area	= 0.965 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

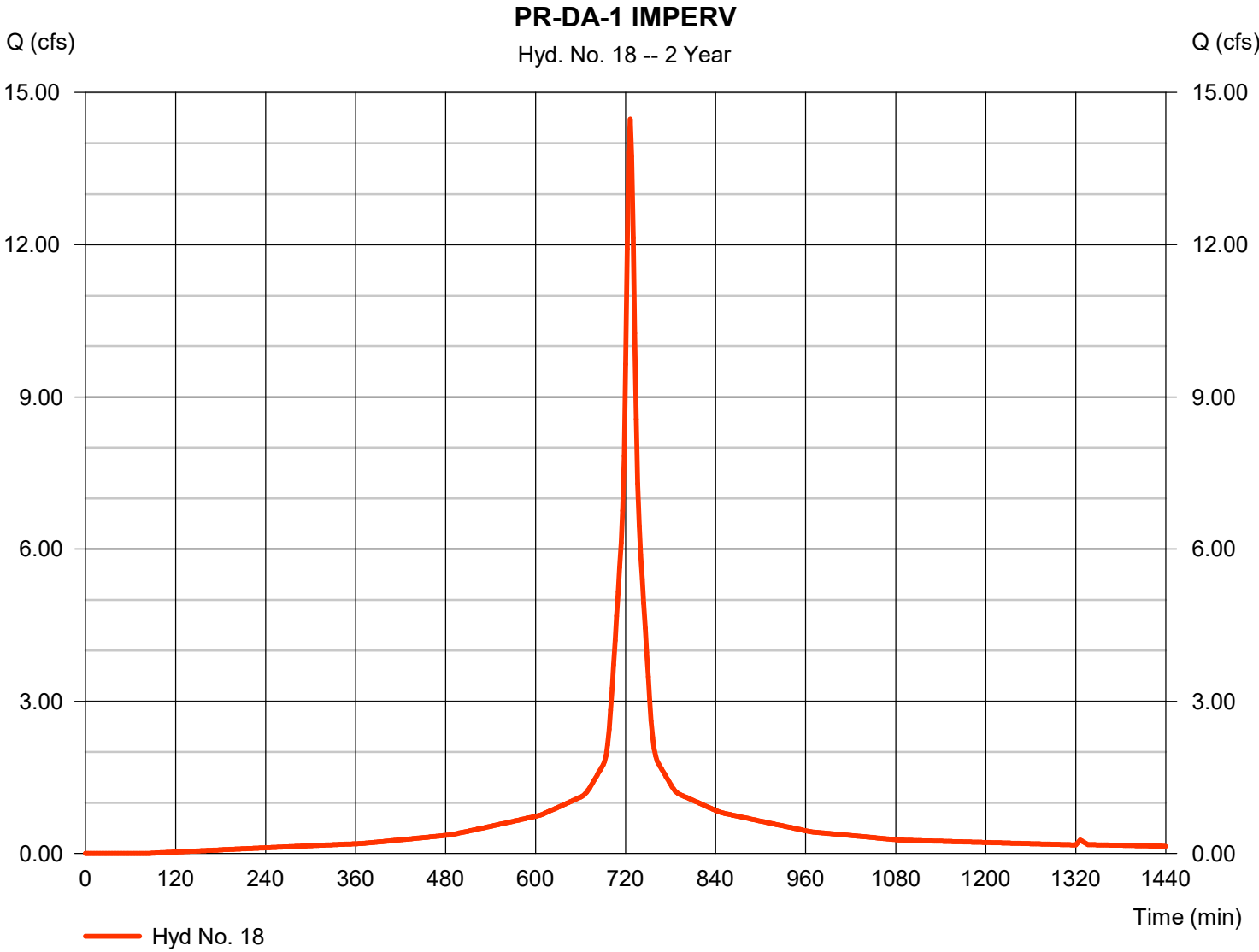


Hydrograph Report

Hyd. No. 18

PR-DA-1 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 14.48 cfs
Storm frequency	= 2 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 55,316 cuft
Drainage area	= 5.084 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

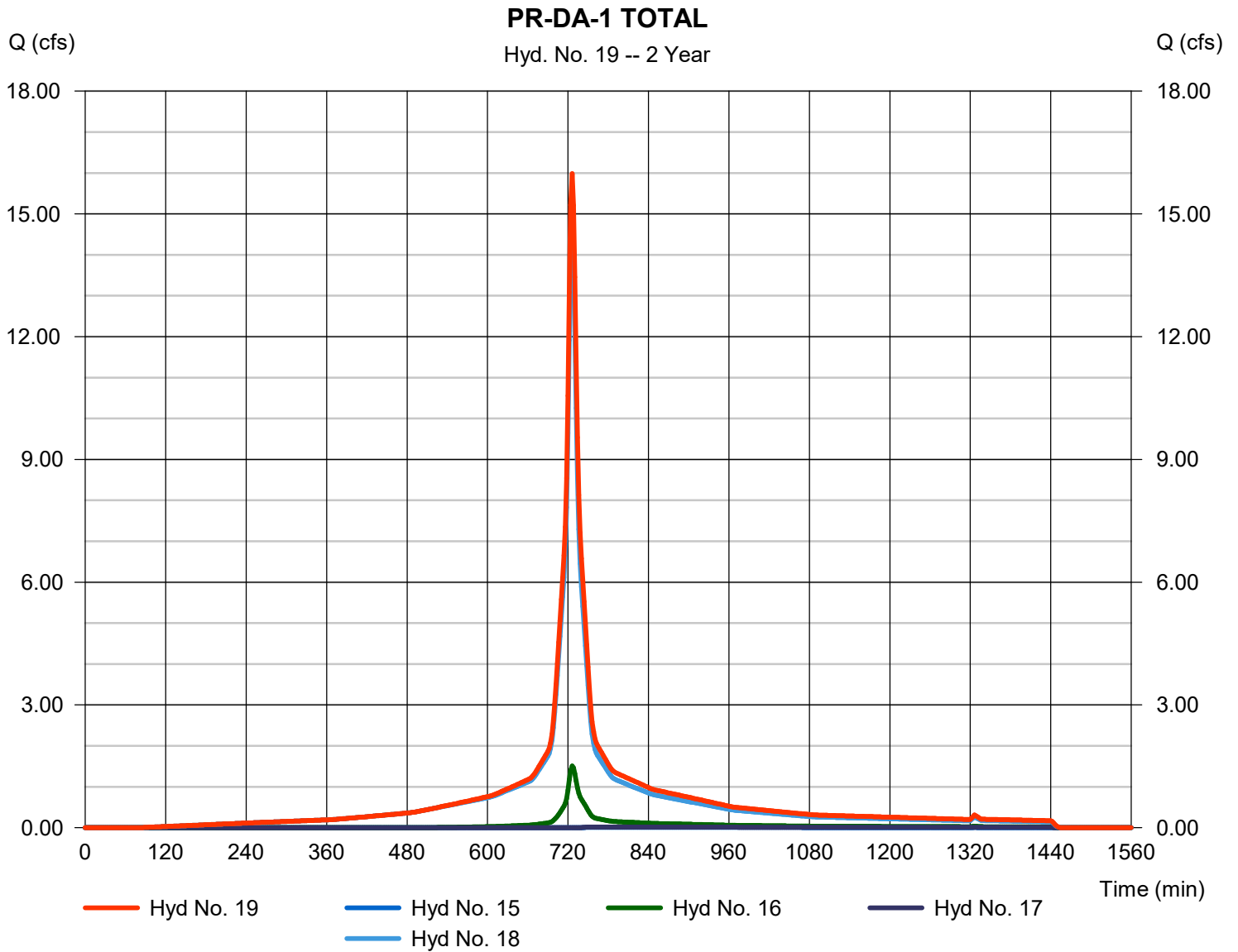
Friday, 02 / 28 / 2020

Hyd. No. 19

PR-DA-1 TOTAL

Hydrograph type = Combine
Storm frequency = 2 yrs
Time interval = 2 min
Inflow hyds. = 15, 16, 17, 18

Peak discharge = 15.98 cfs
Time to peak = 726 min
Hyd. volume = 61,077 cuft
Contrib. drain. area = 7.388 ac



Hydrograph Report

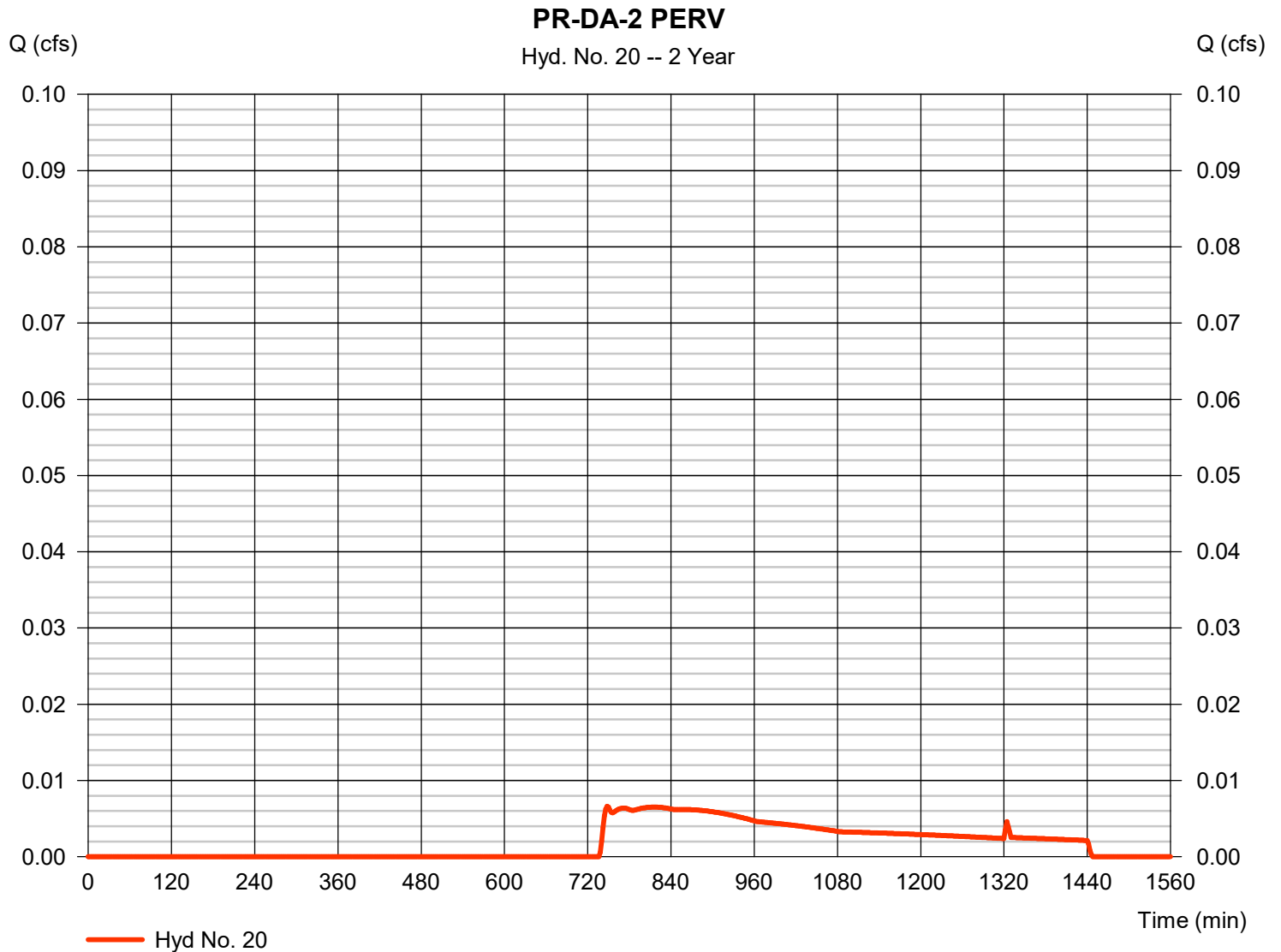
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Friday, 02 / 28 / 2020

Hyd. No. 20

PR-DA-2 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.007 cfs
Storm frequency	= 2 yrs	Time to peak	= 748 min
Time interval	= 2 min	Hyd. volume	= 167 cuft
Drainage area	= 0.431 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.40 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

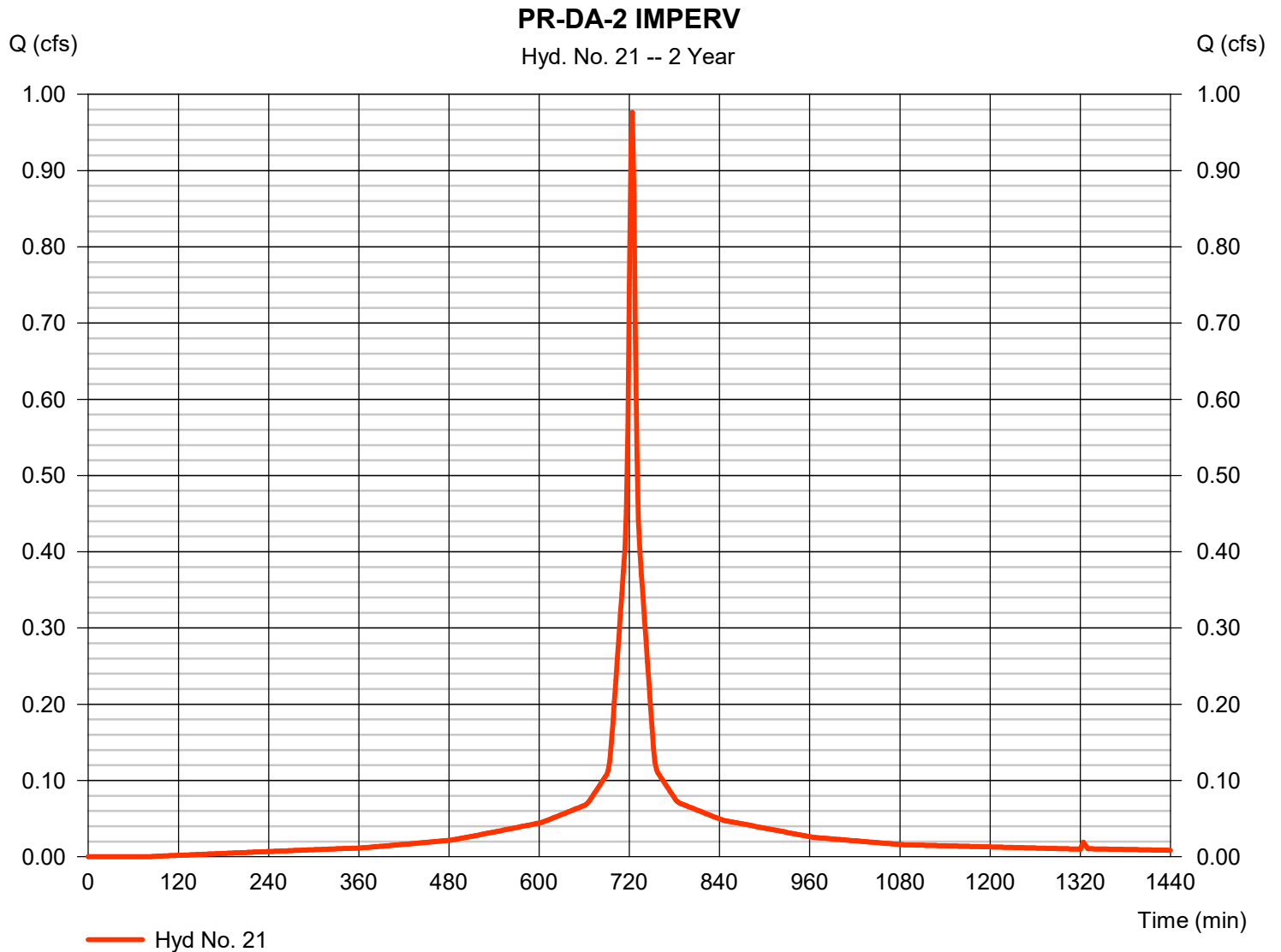
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Friday, 02 / 28 / 2020

Hyd. No. 21

PR-DA-2 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.977 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 3,295 cuft
Drainage area	= 0.323 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.40 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

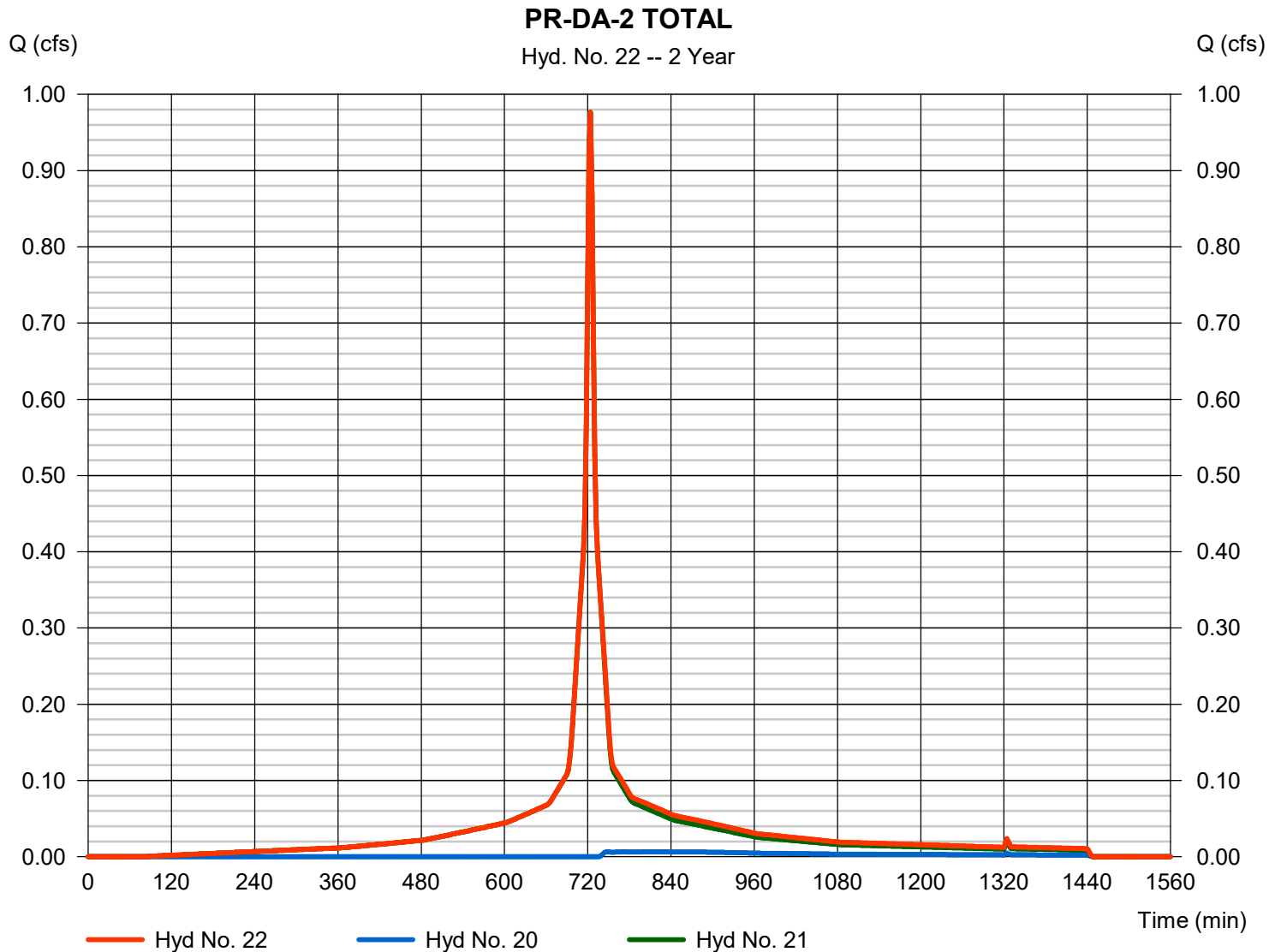
Friday, 02 / 28 / 2020

Hyd. No. 22

PR-DA-2 TOTAL

Hydrograph type = Combine
Storm frequency = 2 yrs
Time interval = 2 min
Inflow hyds. = 20, 21

Peak discharge = 0.977 cfs
Time to peak = 724 min
Hyd. volume = 3,462 cuft
Contrib. drain. area = 0.754 ac



Hydrograph Report

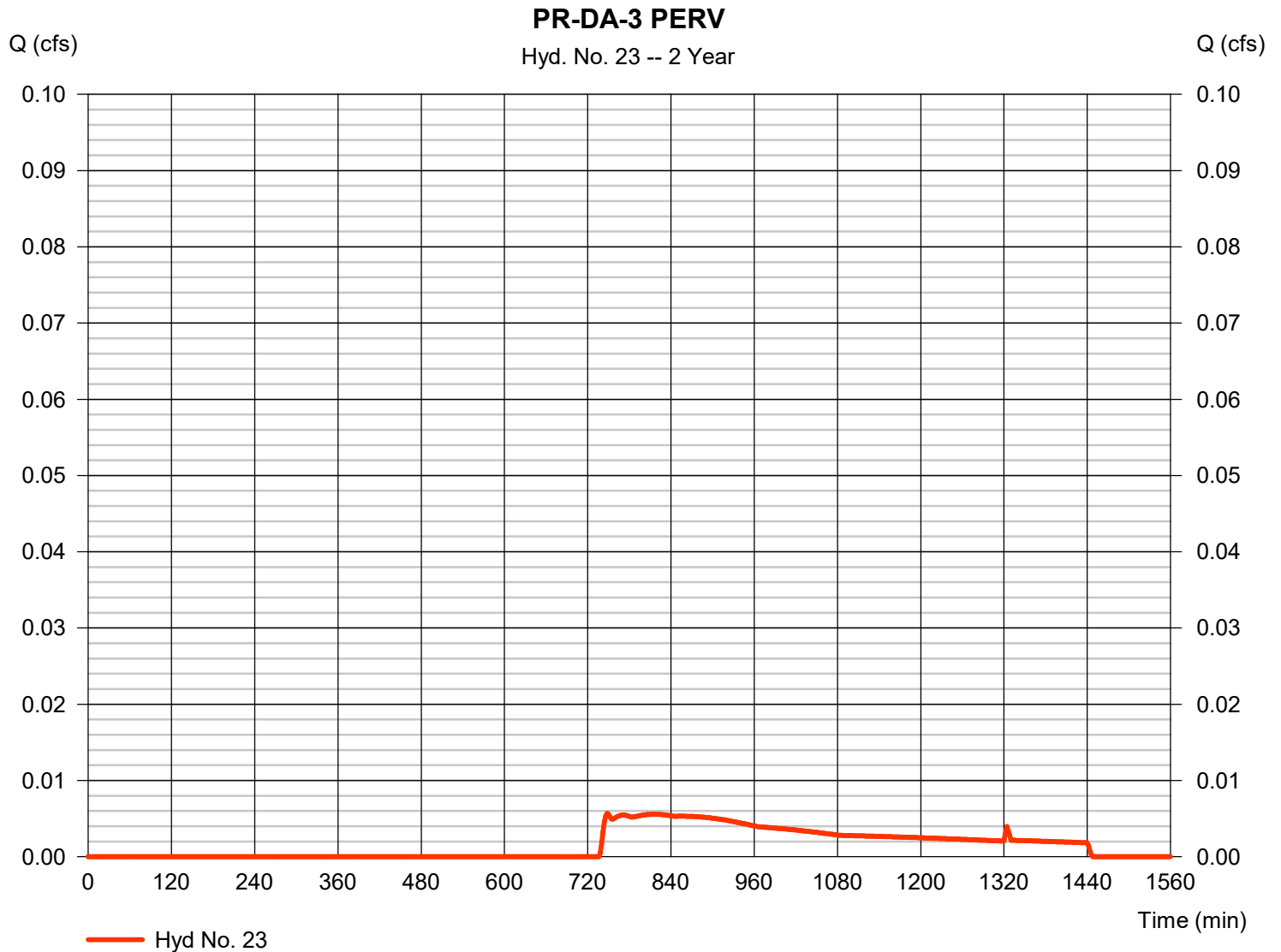
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Friday, 02 / 28 / 2020

Hyd. No. 23

PR-DA-3 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.006 cfs
Storm frequency	= 2 yrs	Time to peak	= 748 min
Time interval	= 2 min	Hyd. volume	= 143 cuft
Drainage area	= 0.369 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

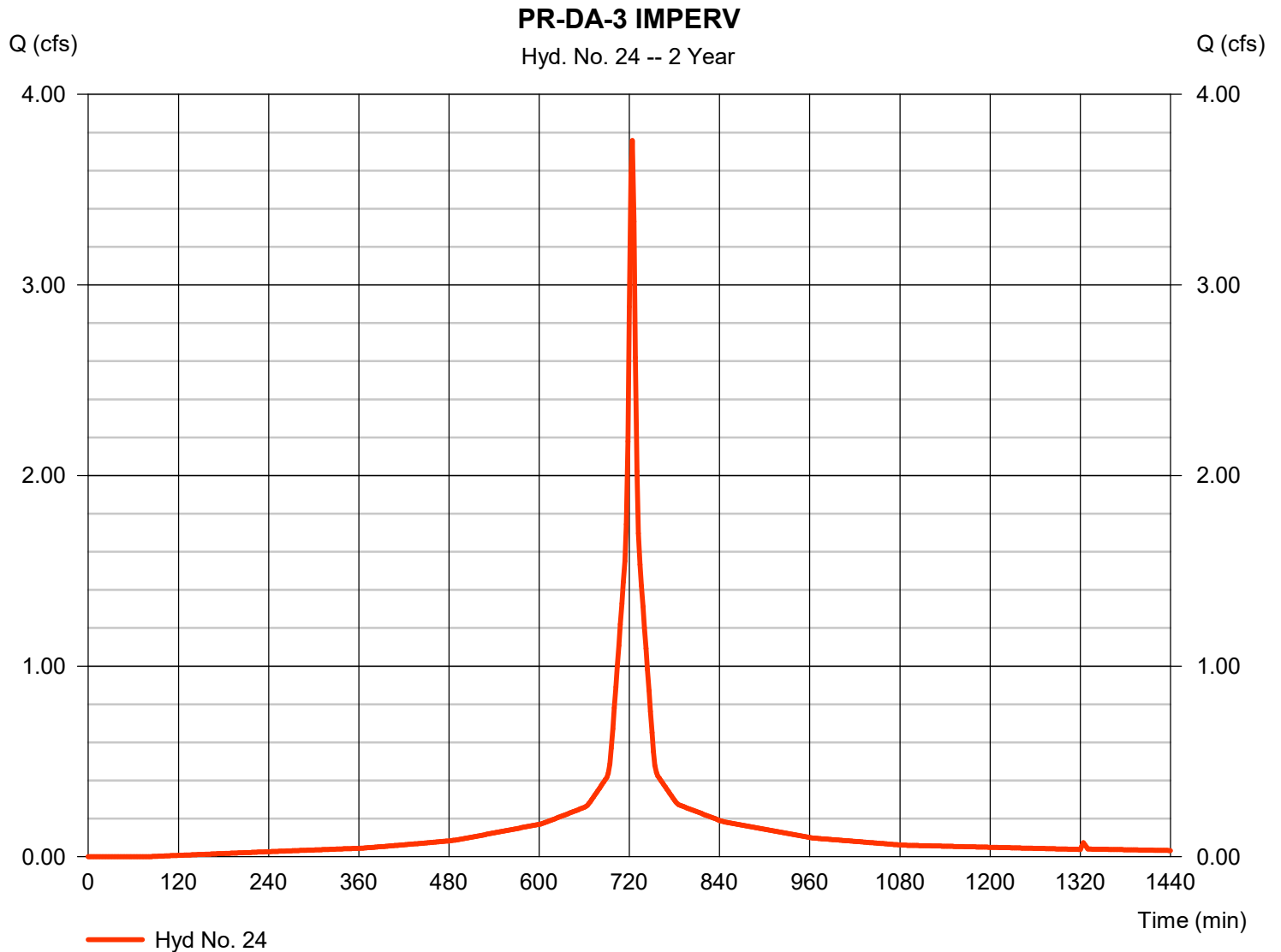
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Friday, 02 / 28 / 2020

Hyd. No. 24

PR-DA-3 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 3.758 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 12,679 cuft
Drainage area	= 1.243 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

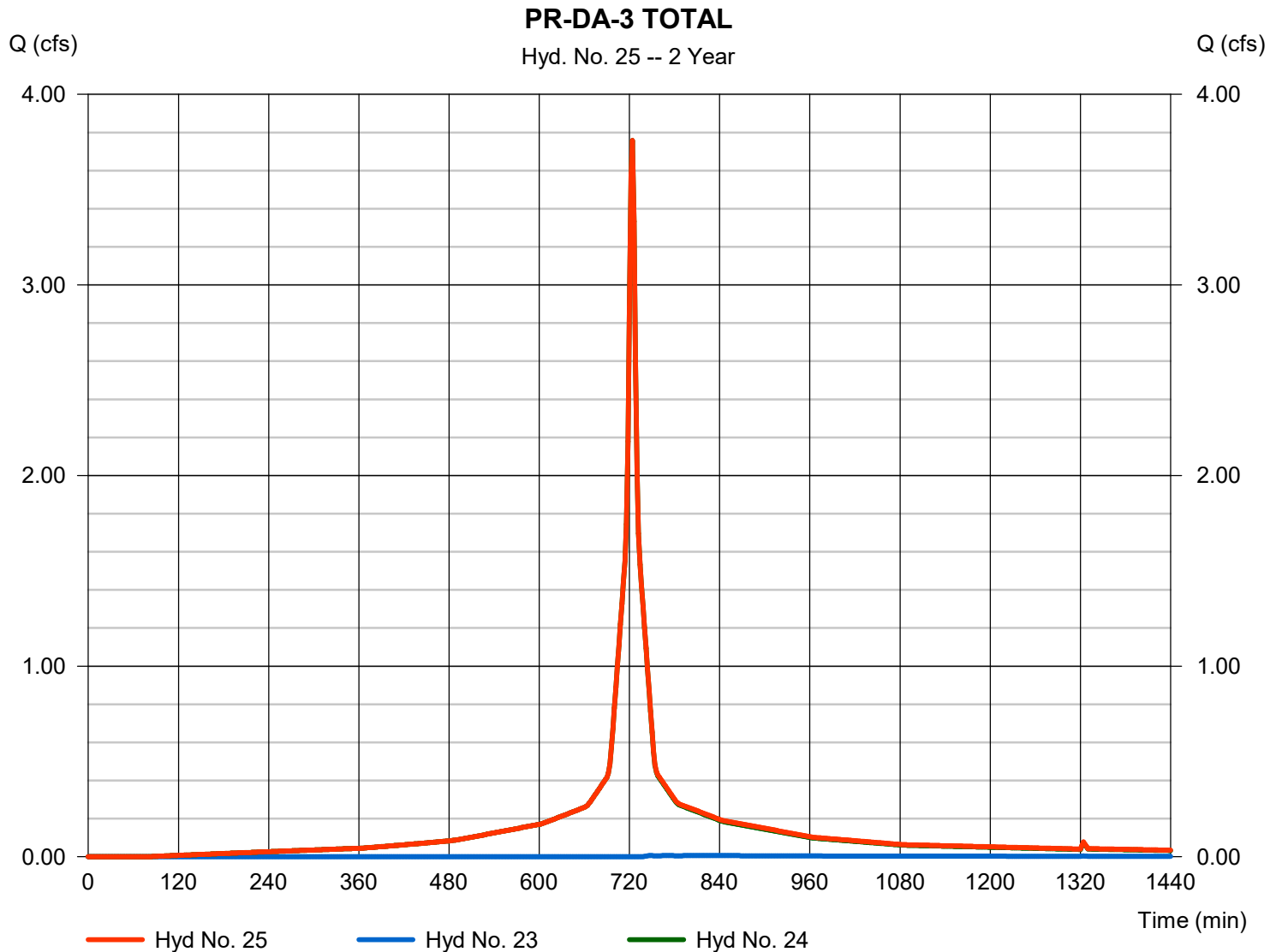
Friday, 02 / 28 / 2020

Hyd. No. 25

PR-DA-3 TOTAL

Hydrograph type = Combine
Storm frequency = 2 yrs
Time interval = 2 min
Inflow hyds. = 23, 24

Peak discharge = 3.758 cfs
Time to peak = 724 min
Hyd. volume = 12,822 cuft
Contrib. drain. area = 1.612 ac



Hydrograph Report

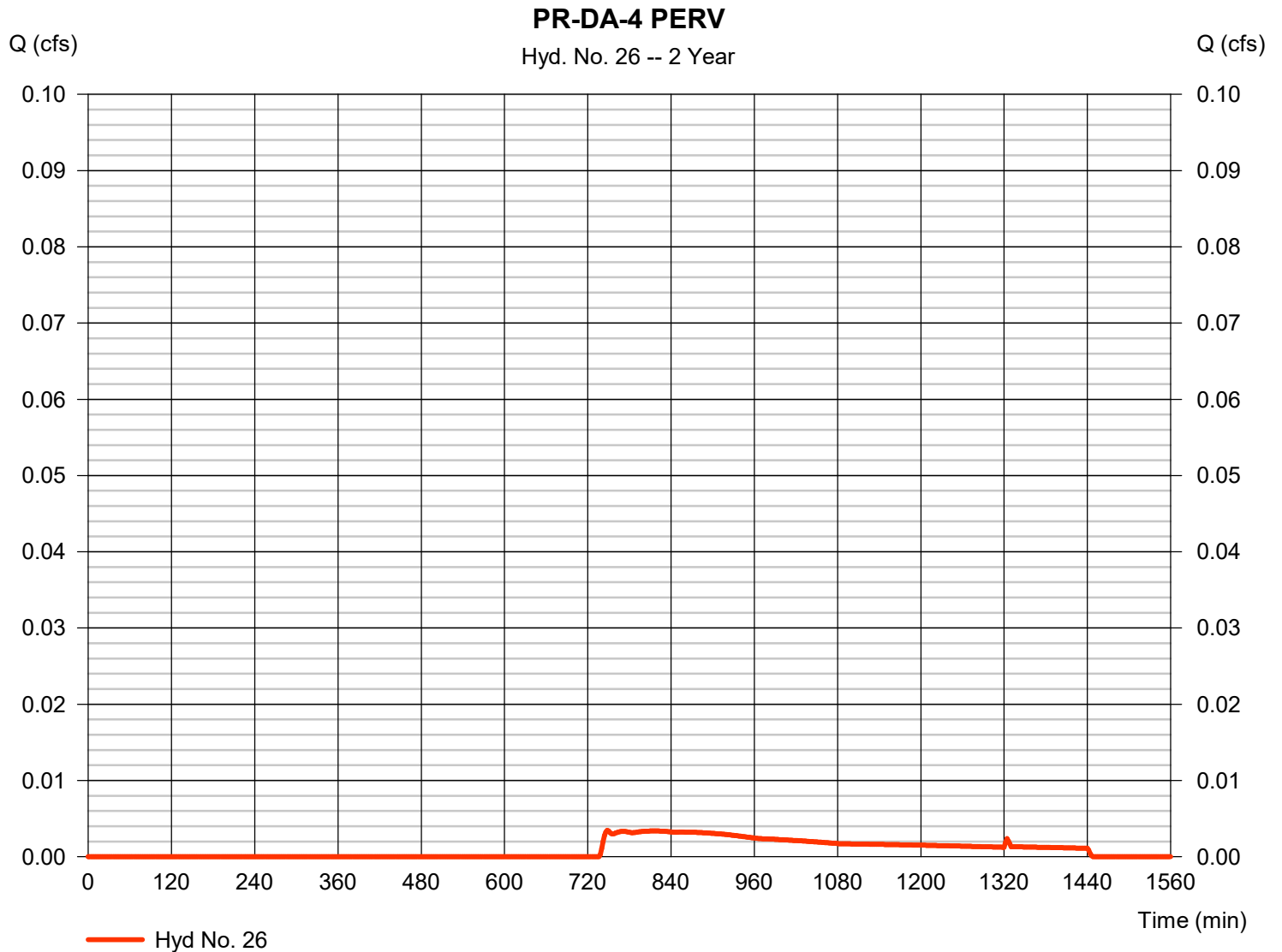
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Friday, 02 / 28 / 2020

Hyd. No. 26

PR-DA-4 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.003 cfs
Storm frequency	= 2 yrs	Time to peak	= 748 min
Time interval	= 2 min	Hyd. volume	= 87 cuft
Drainage area	= 0.224 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.23 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

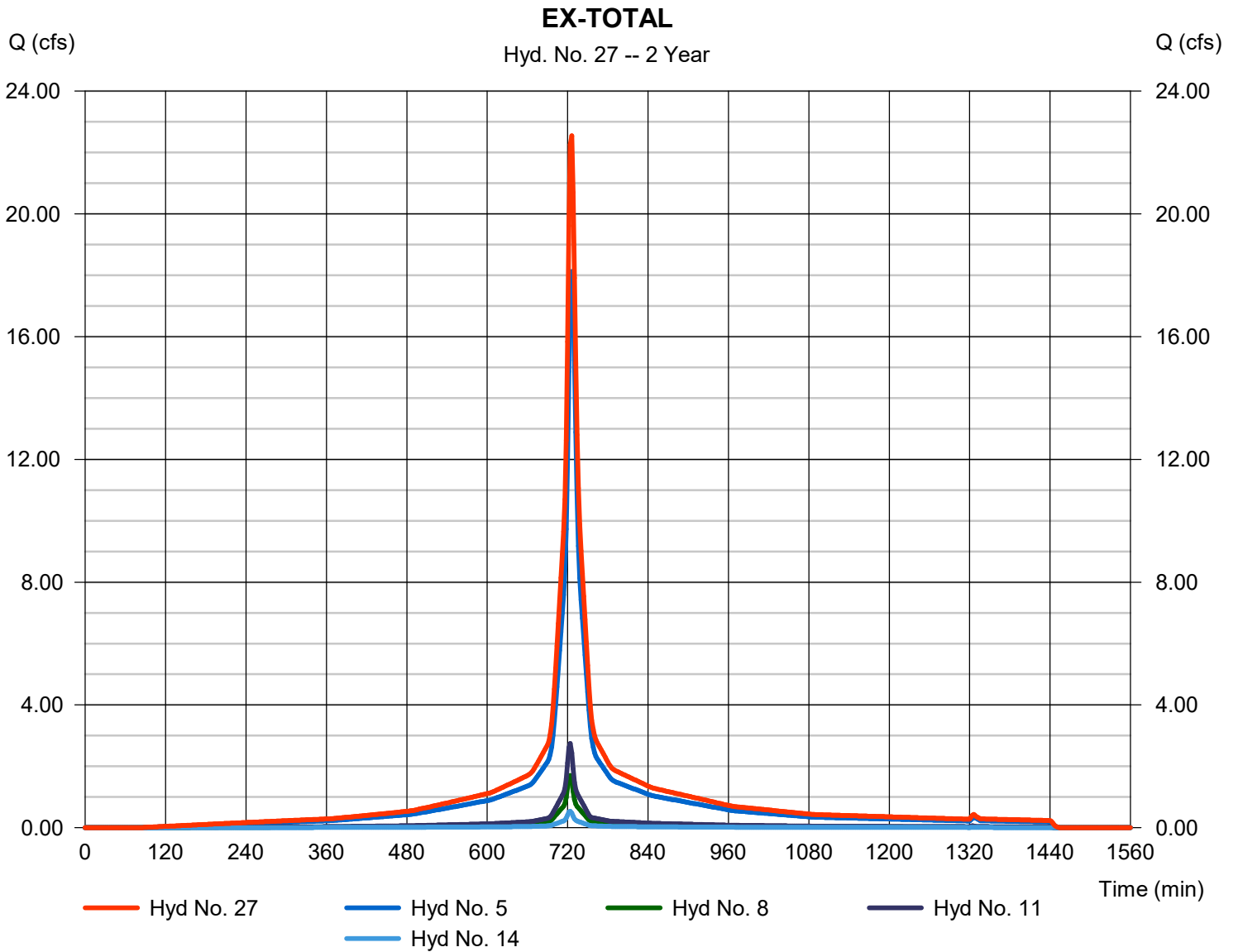
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Friday, 02 / 28 / 2020

Hyd. No. 27

EX-TOTAL

Hydrograph type	= Combine	Peak discharge	= 22.54 cfs
Storm frequency	= 2 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 86,369 cuft
Inflow hyds.	= 5, 8, 11, 14	Contrib. drain. area	= 0.000 ac



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

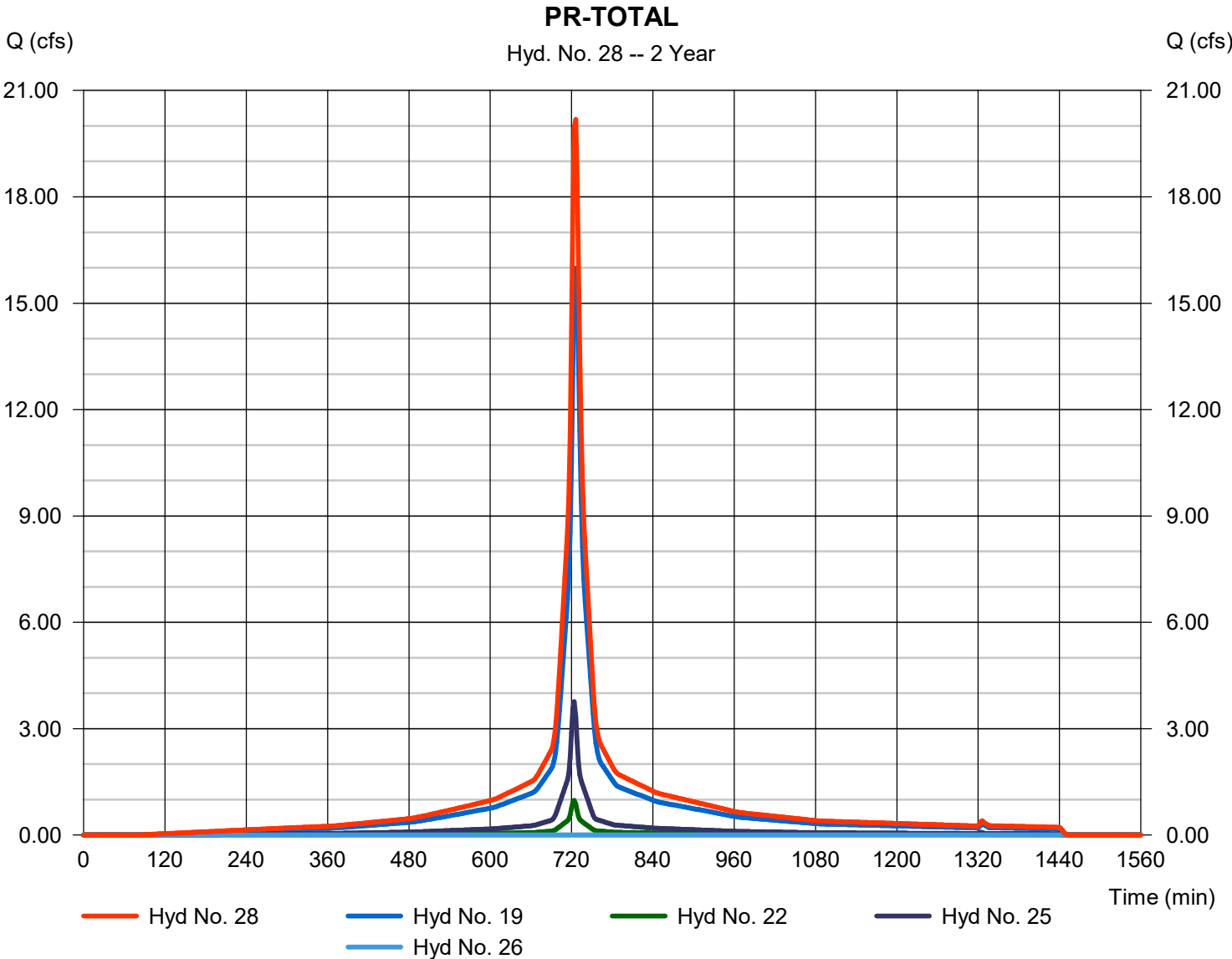
Friday, 02 / 28 / 2020

Hyd. No. 28

PR-TOTAL

Hydrograph type = Combine
Storm frequency = 2 yrs
Time interval = 2 min
Inflow hyds. = 19, 22, 25, 26

Peak discharge = 20.18 cfs
Time to peak = 726 min
Hyd. volume = 77,448 cuft
Contrib. drain. area = 0.224 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	0.073	2	730	414	----	----	----	EX-DA-1 PERV-254 Soil
2	SCS Runoff	1.931	2	726	6,638	----	----	----	EX-DA-1 PERV 600 Soil
3	SCS Runoff	0.282	2	730	1,604	----	----	----	EX-DA-1 PERV 651 Soil
4	SCS Runoff	26.92	2	726	104,838	----	----	----	EX-DA-1 IMPERV
5	Combine	29.15	2	726	113,495	1, 2, 3, 4	----	----	EX-DA-1 TOTAL
6	SCS Runoff	0.110	2	726	548	----	----	----	EX-DA-2 PERV
7	SCS Runoff	2.676	2	724	9,203	----	----	----	EX-DA-2 IMPERV
8	Combine	2.774	2	724	9,751	6, 7	----	----	EX-DA-2 TOTAL
9	SCS Runoff	0.267	2	726	1,332	----	----	----	EX-DA-3 PERV
10	SCS Runoff	4.315	2	724	14,842	----	----	----	EX-DA-3 IMPERV
11	Combine	4.553	2	724	16,174	9, 10	----	----	EX-DA-3 TOTAL
12	SCS Runoff	0.032	2	726	158	----	----	----	EX-DA-4 PERV
13	SCS Runoff	0.841	2	724	2,893	----	----	----	EX-DA-4 IMPERV
14	Combine	0.869	2	724	3,051	12, 13	----	----	EX-DA-4 TOTAL
15	SCS Runoff	0.212	2	730	1,207	----	----	----	PR-DA-1 PERV 254 Soil
16	SCS Runoff	2.902	2	726	9,976	----	----	----	PR-DA-1 PERV 600 Soil
17	SCS Runoff	0.403	2	730	2,294	----	----	----	PR-DA-1 PERV 651 Soil
18	SCS Runoff	22.76	2	726	88,641	----	----	----	PR-DA-1 IMPERV
19	Combine	26.18	2	726	102,118	15, 16, 17, 18	----	----	PR-DA-1 TOTAL
20	SCS Runoff	0.192	2	726	960	----	----	----	PR-DA-2 PERV
21	SCS Runoff	1.535	2	724	5,280	----	----	----	PR-DA-2 IMPERV
22	Combine	1.707	2	724	6,240	20, 21	----	----	PR-DA-2 TOTAL
23	SCS Runoff	0.165	2	726	822	----	----	----	PR-DA-3 PERV
24	SCS Runoff	5.908	2	724	20,318	----	----	----	PR-DA-3 IMPERV
25	Combine	6.054	2	724	21,140	23, 24	----	----	PR-DA-3 TOTAL
26	SCS Runoff	0.100	2	726	499	----	----	----	PR-DA-4 PERV
27	Combine	36.50	2	726	142,471	5, 8, 11, 14,	----	----	EX-TOTAL
28	Combine	33.23	2	726	129,996	19, 22, 25, 26,	----	----	PR-TOTAL
Hydroflow Calc.gpw					Return Period: 10 Year			Friday, 02 / 28 / 2020	

Hydrograph Report

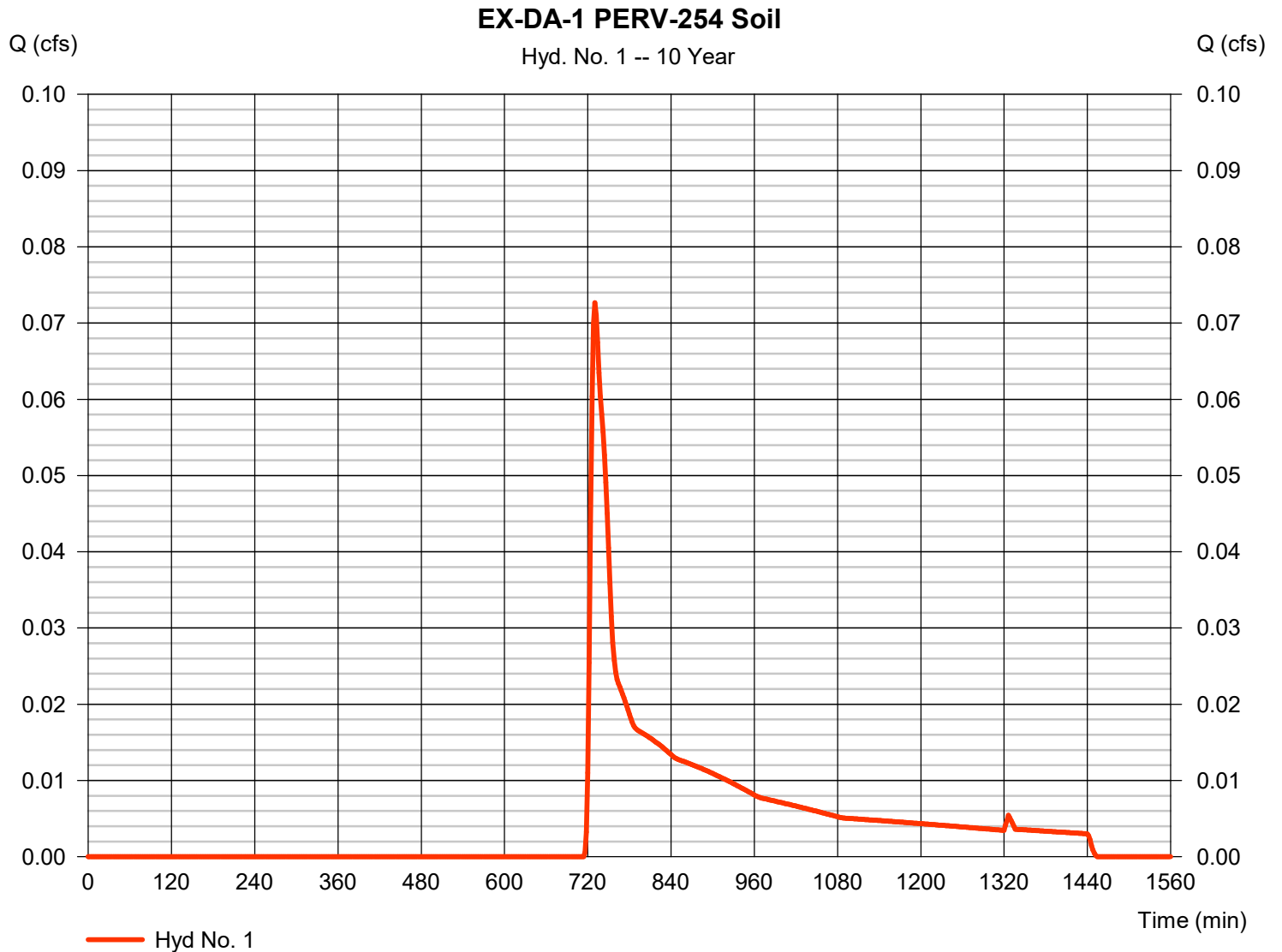
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Friday, 02 / 28 / 2020

Hyd. No. 1

EX-DA-1 PERV-254 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 0.073 cfs
Storm frequency	= 10 yrs	Time to peak	= 730 min
Time interval	= 2 min	Hyd. volume	= 414 cuft
Drainage area	= 0.174 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

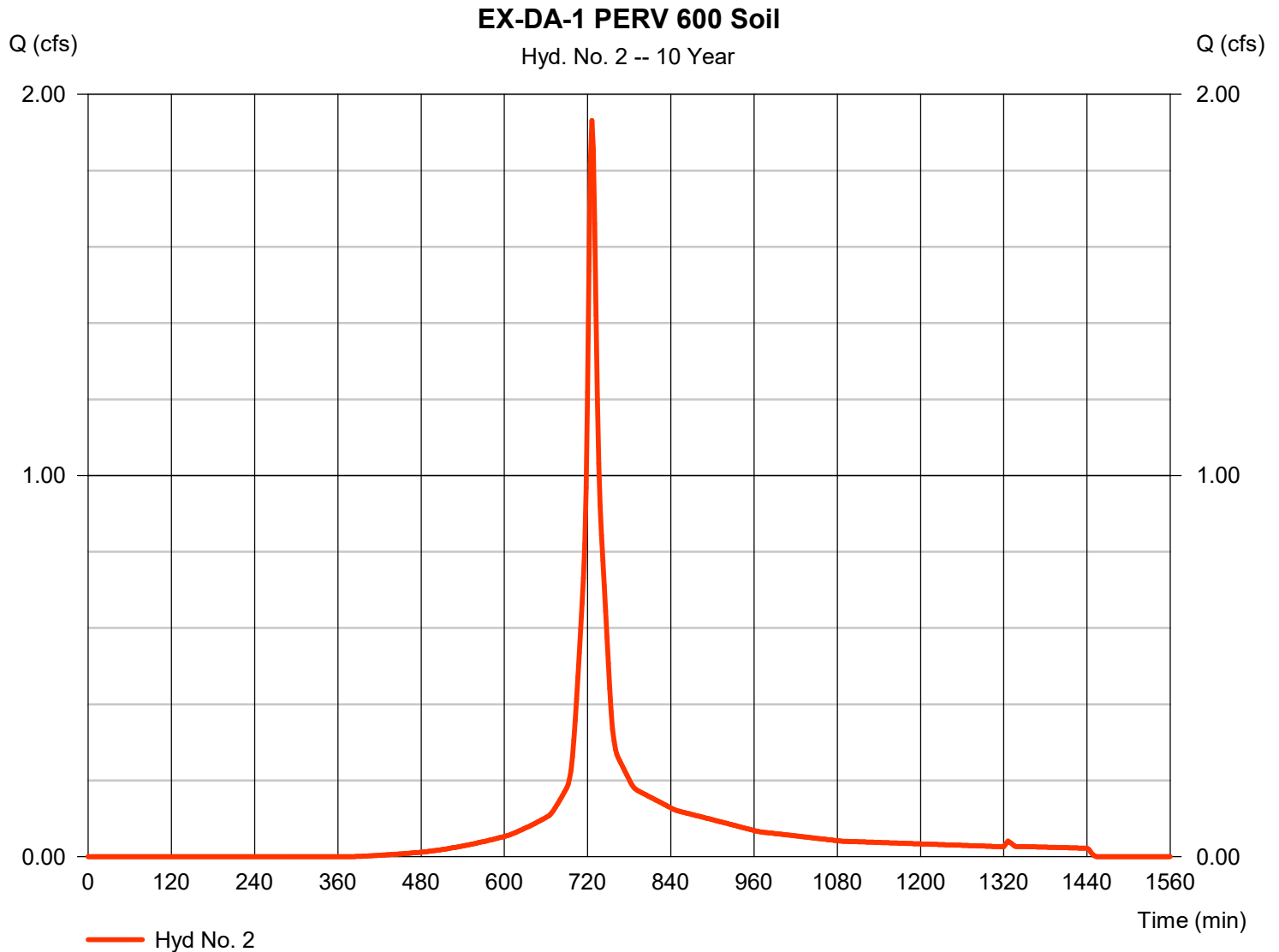
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Friday, 02 / 28 / 2020

Hyd. No. 2

EX-DA-1 PERV 600 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 1.931 cfs
Storm frequency	= 10 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 6,638 cuft
Drainage area	= 0.553 ac	Curve number	= 84
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

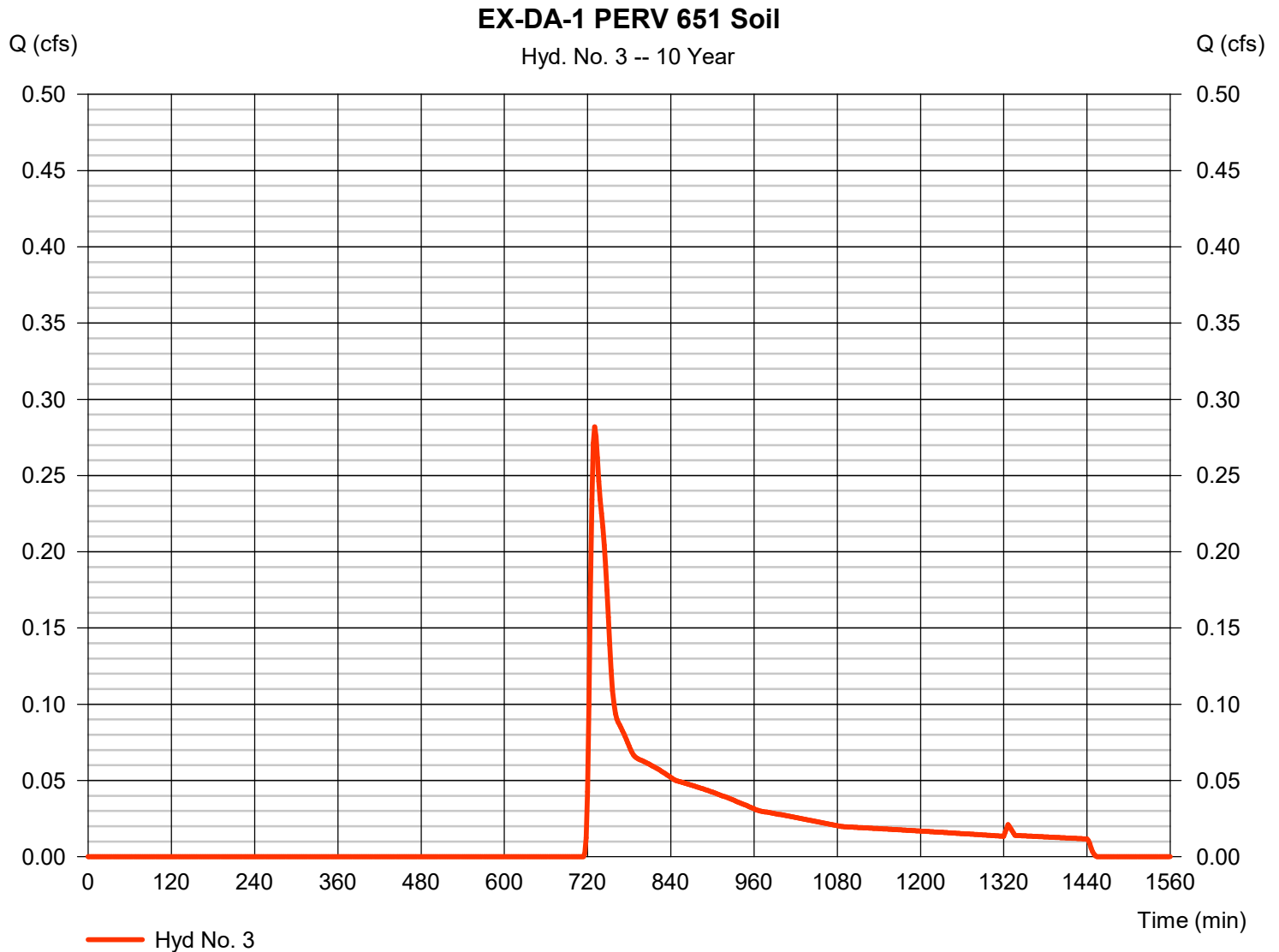
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Friday, 02 / 28 / 2020

Hyd. No. 3

EX-DA-1 PERV 651 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 0.282 cfs
Storm frequency	= 10 yrs	Time to peak	= 730 min
Time interval	= 2 min	Hyd. volume	= 1,604 cuft
Drainage area	= 0.675 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

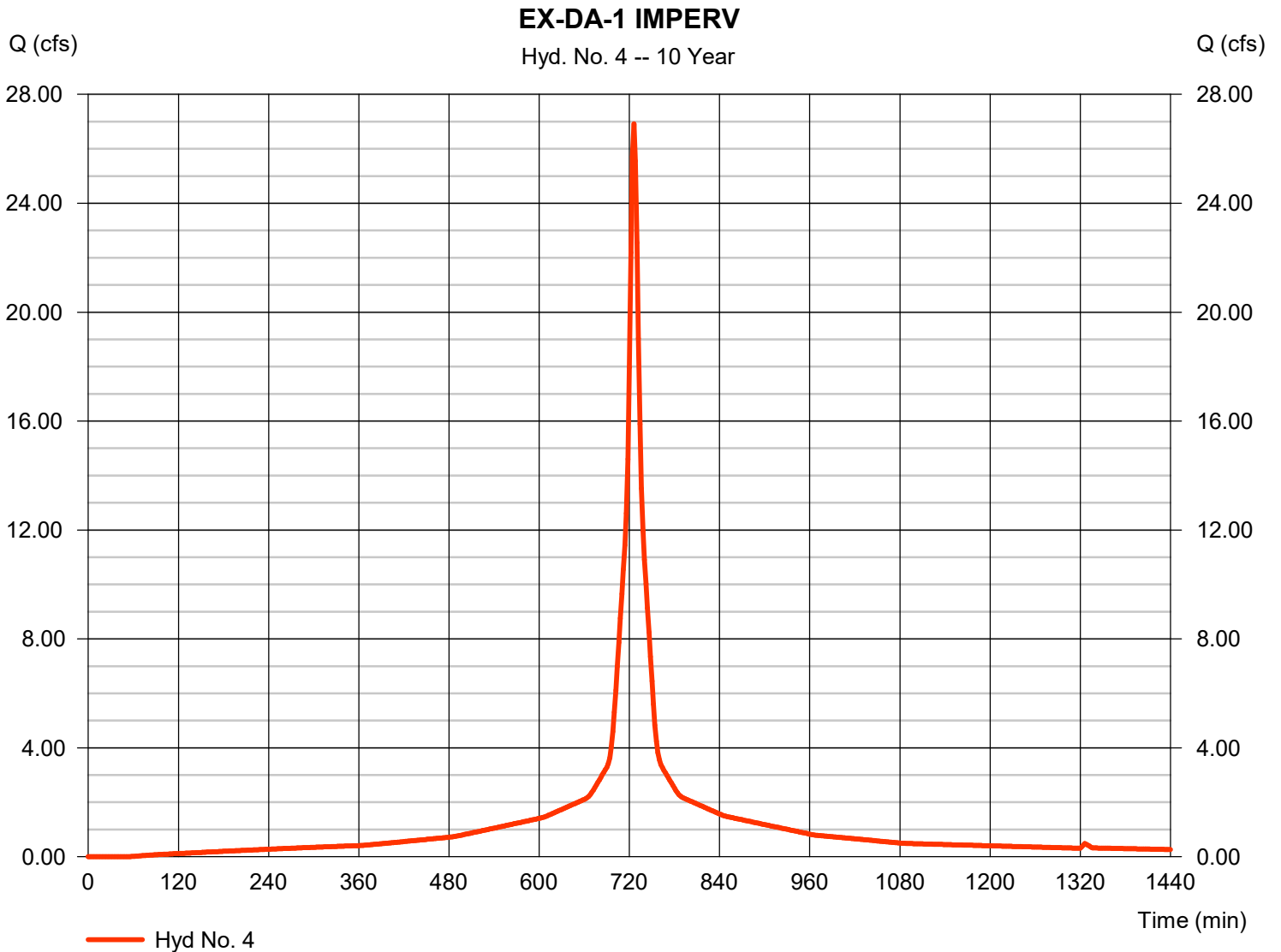
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Friday, 02 / 28 / 2020

Hyd. No. 4

EX-DA-1 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 26.92 cfs
Storm frequency	= 10 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 104,838 cuft
Drainage area	= 6.013 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

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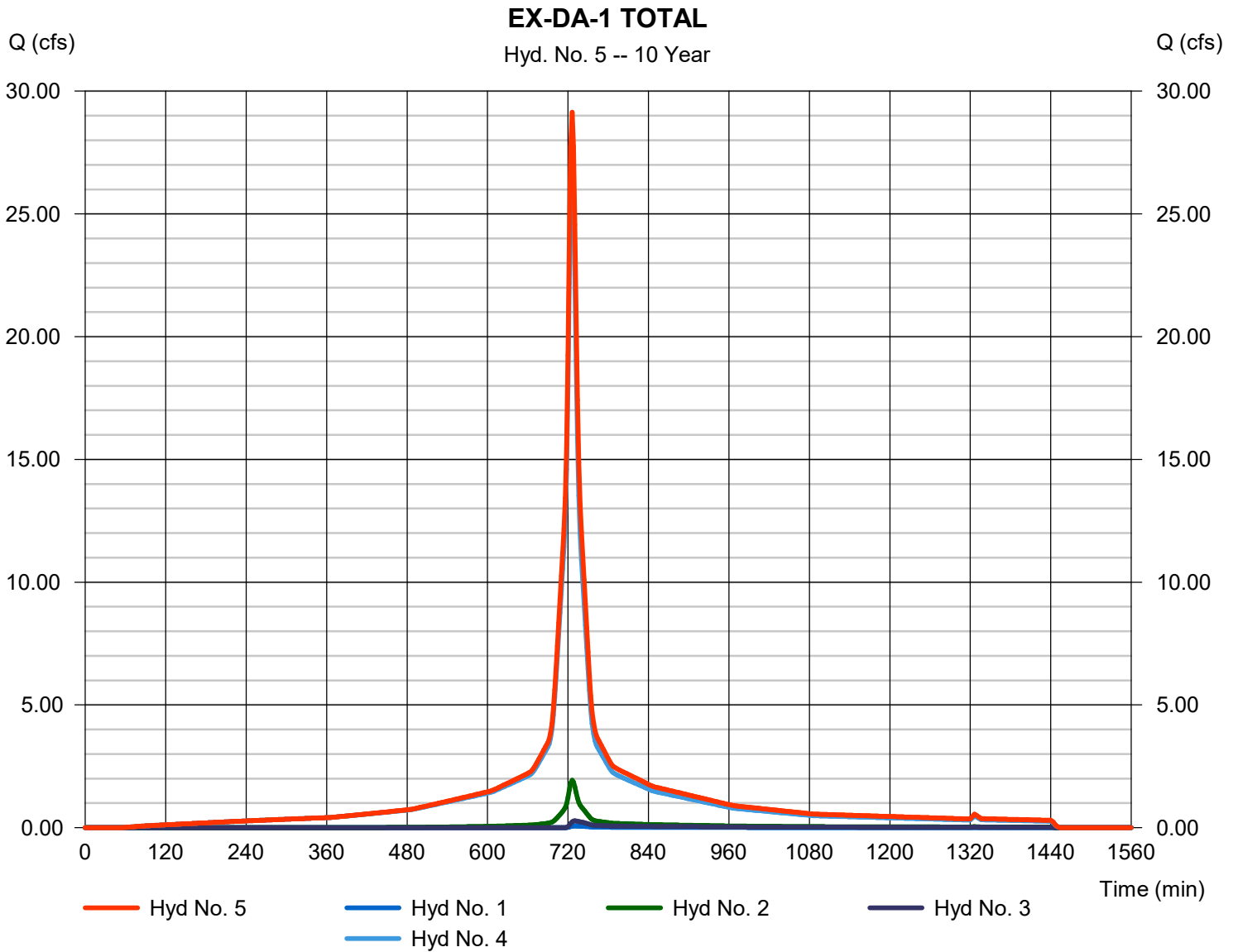
Friday, 02 / 28 / 2020

Hyd. No. 5

EX-DA-1 TOTAL

Hydrograph type = Combine
 Storm frequency = 10 yrs
 Time interval = 2 min
 Inflow hyds. = 1, 2, 3, 4

Peak discharge = 29.15 cfs
 Time to peak = 726 min
 Hyd. volume = 113,495 cuft
 Contrib. drain. area = 7.415 ac

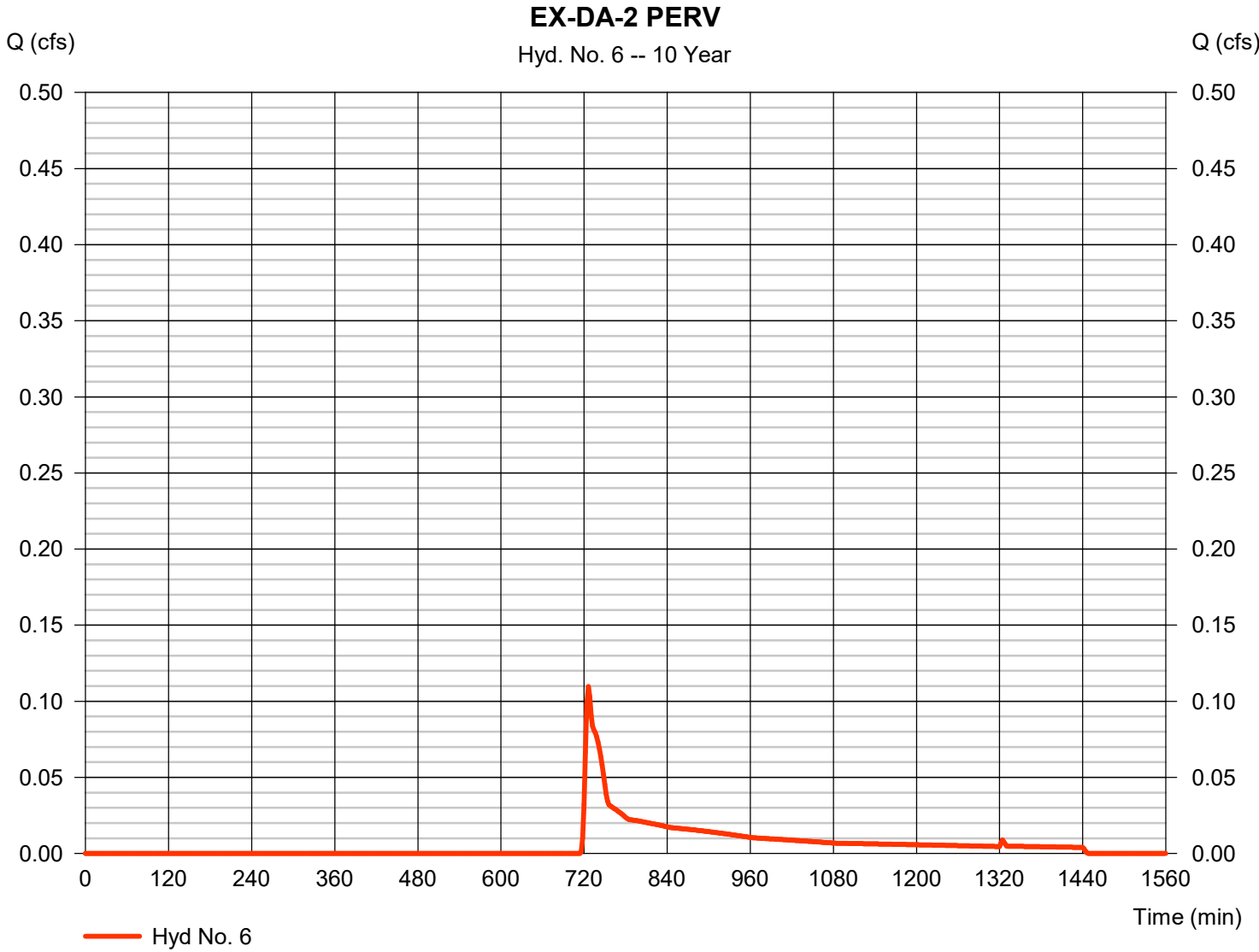


Hydrograph Report

Hyd. No. 6

EX-DA-2 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.110 cfs
Storm frequency	= 10 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 548 cuft
Drainage area	= 0.246 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

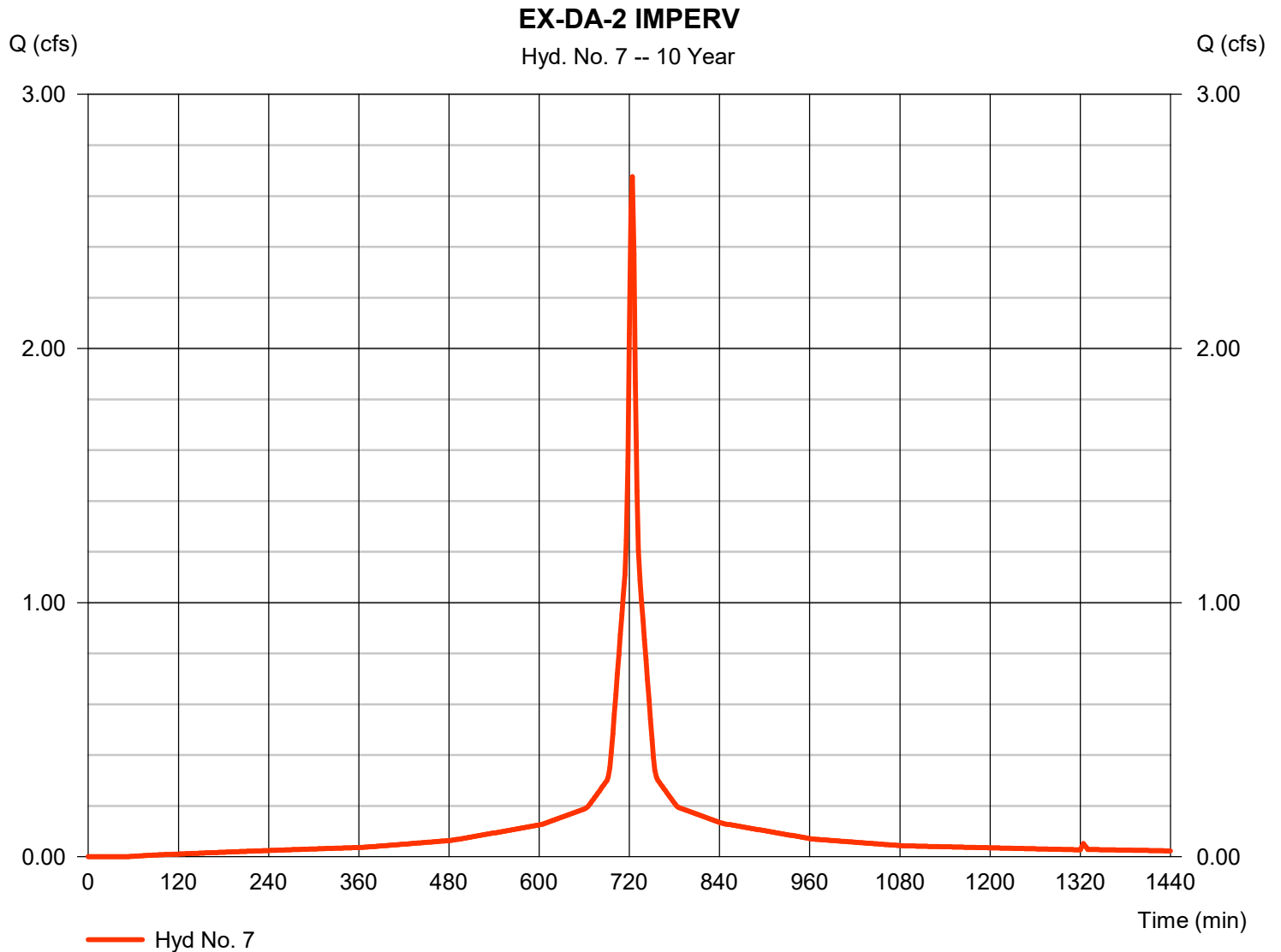
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Friday, 02 / 28 / 2020

Hyd. No. 7

EX-DA-2 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 2.676 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 9,203 cuft
Drainage area	= 0.563 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

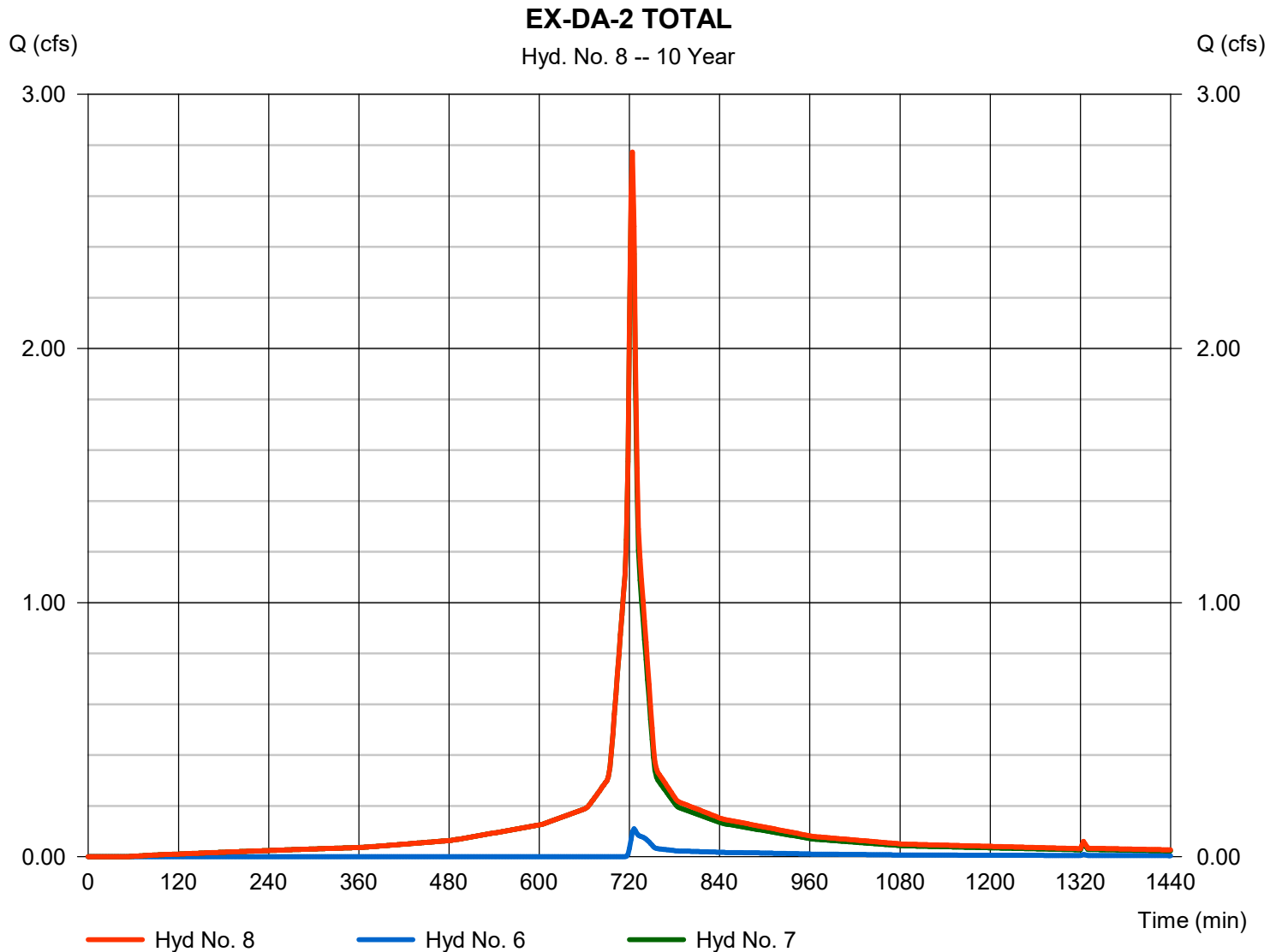
Friday, 02 / 28 / 2020

Hyd. No. 8

EX-DA-2 TOTAL

Hydrograph type = Combine
Storm frequency = 10 yrs
Time interval = 2 min
Inflow hyds. = 6, 7

Peak discharge = 2.774 cfs
Time to peak = 724 min
Hyd. volume = 9,751 cuft
Contrib. drain. area = 0.809 ac



Hydrograph Report

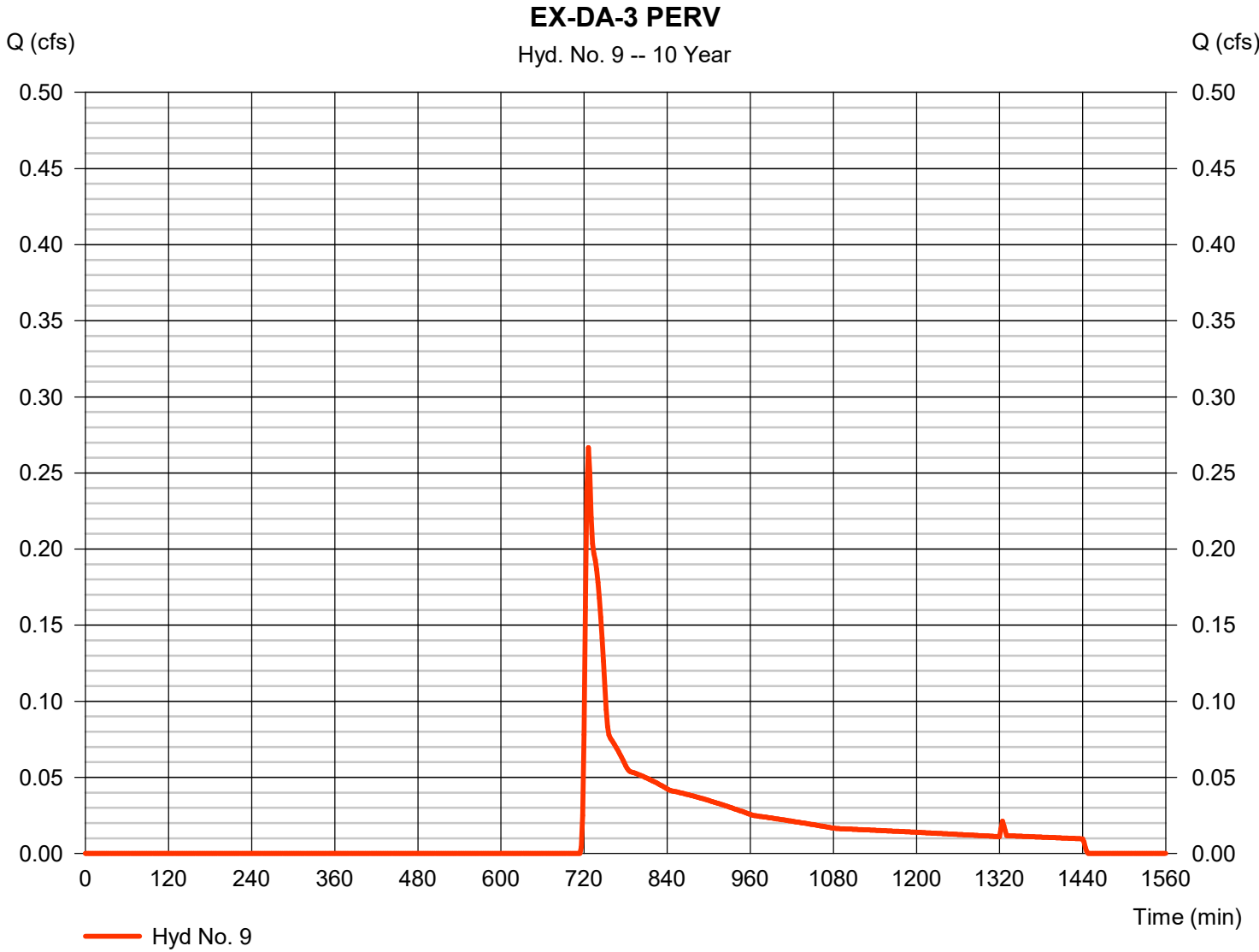
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Friday, 02 / 28 / 2020

Hyd. No. 9

EX-DA-3 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.267 cfs
Storm frequency	= 10 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 1,332 cuft
Drainage area	= 0.598 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.40 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

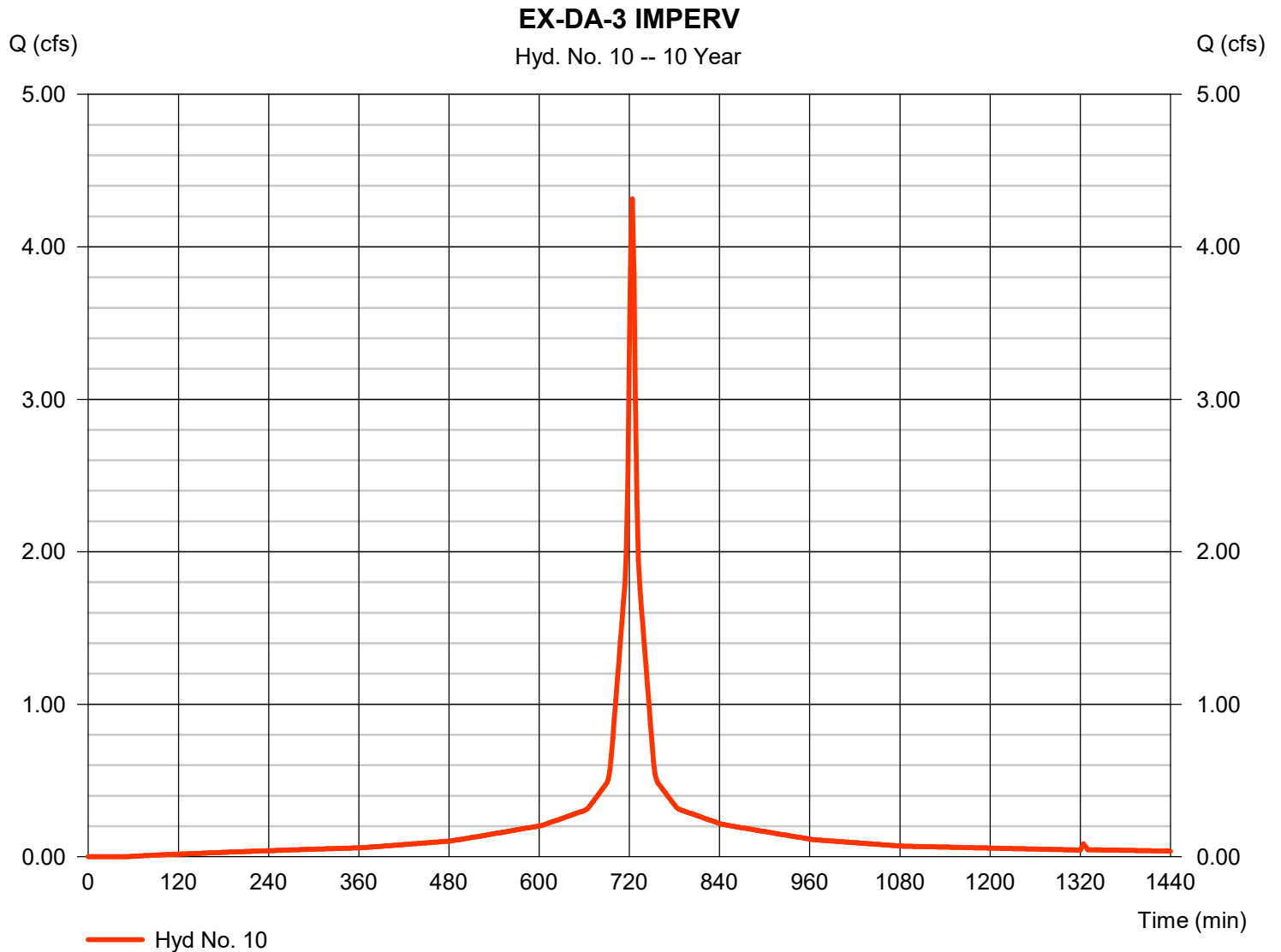
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Friday, 02 / 28 / 2020

Hyd. No. 10

EX-DA-3 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 4.315 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 14,842 cuft
Drainage area	= 0.908 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.40 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

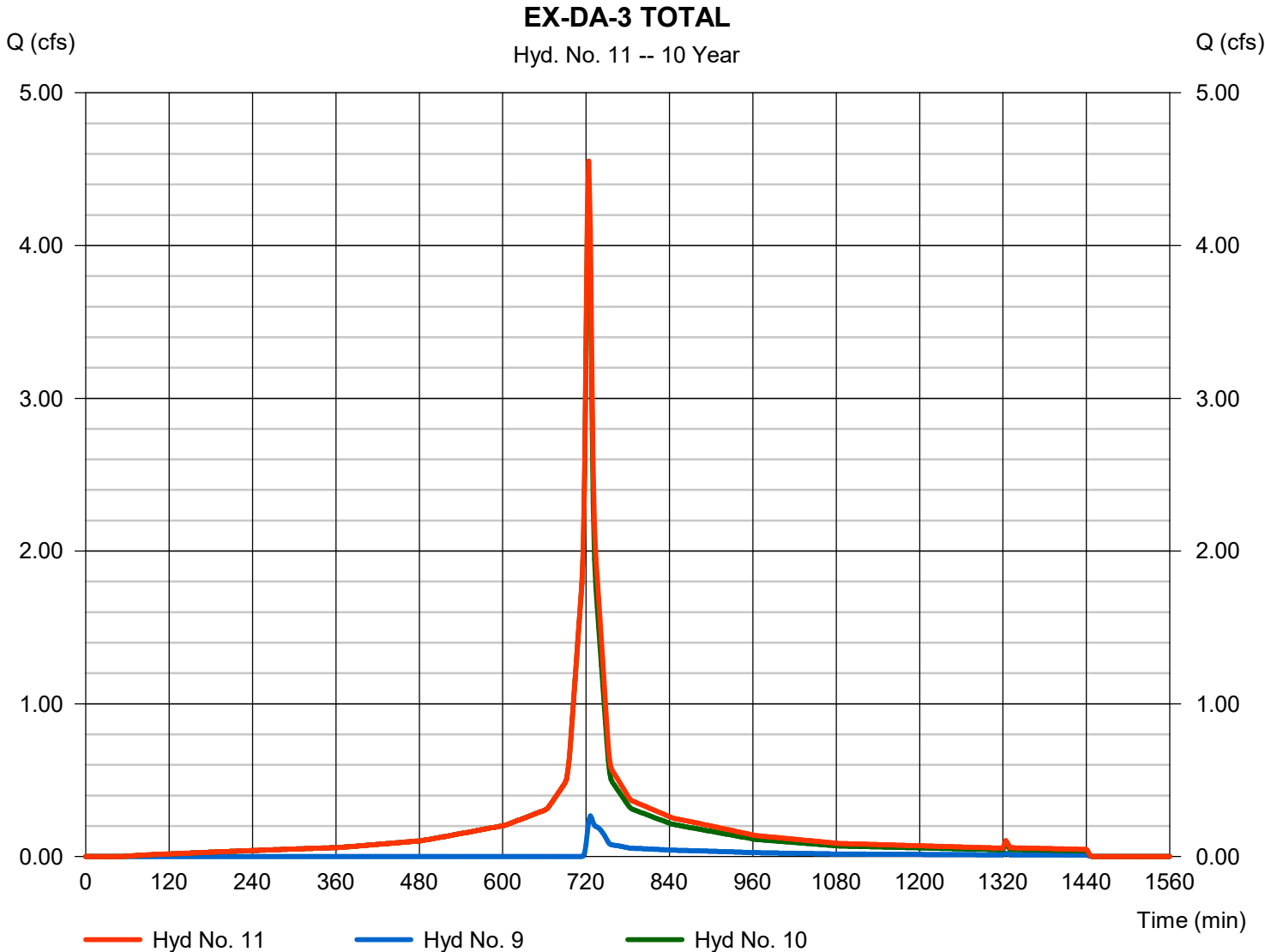
Friday, 02 / 28 / 2020

Hyd. No. 11

EX-DA-3 TOTAL

Hydrograph type = Combine
Storm frequency = 10 yrs
Time interval = 2 min
Inflow hyds. = 9, 10

Peak discharge = 4.553 cfs
Time to peak = 724 min
Hyd. volume = 16,174 cuft
Contrib. drain. area = 1.506 ac



Hydrograph Report

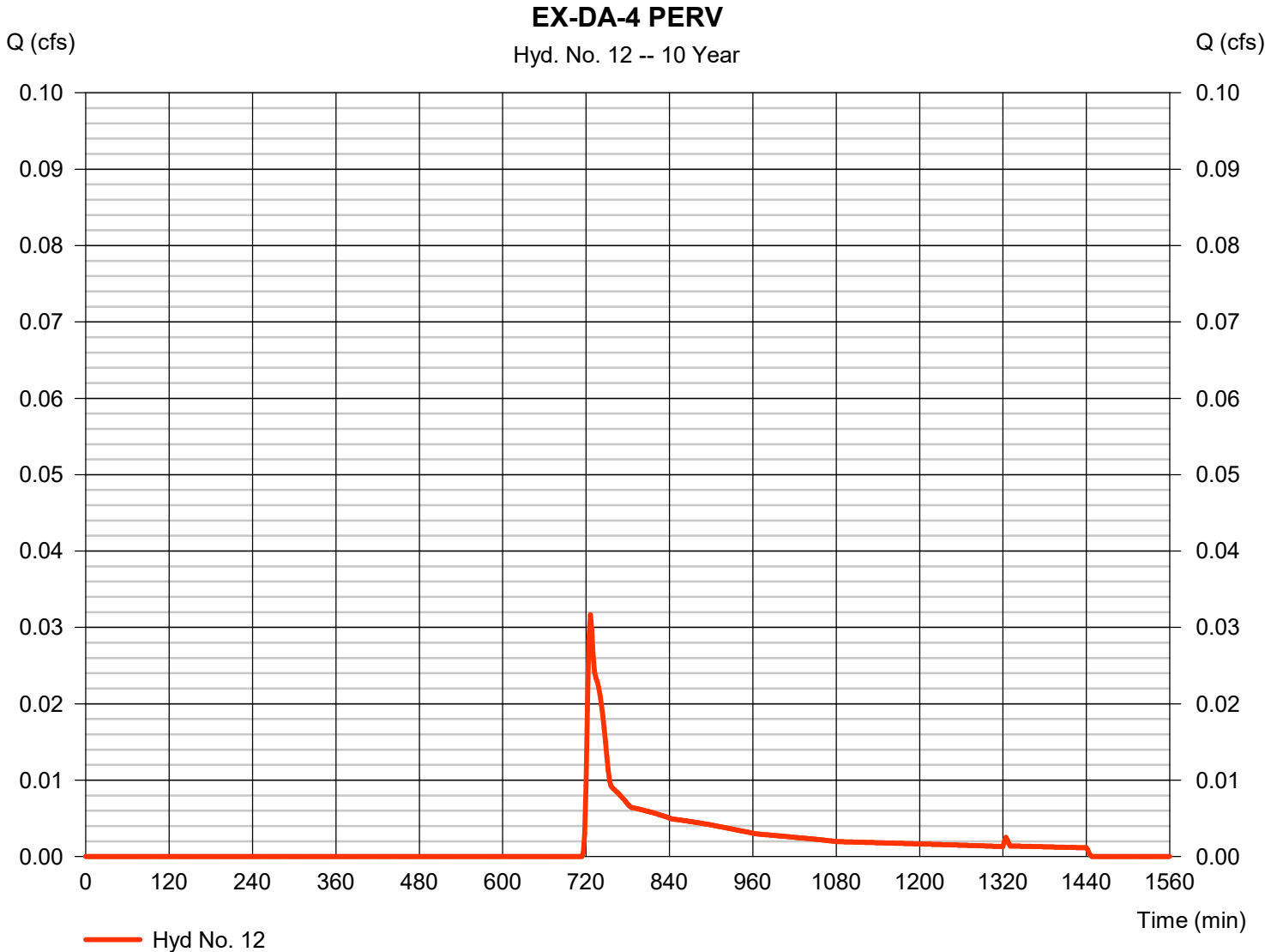
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Friday, 02 / 28 / 2020

Hyd. No. 12

EX-DA-4 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.032 cfs
Storm frequency	= 10 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 158 cuft
Drainage area	= 0.071 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

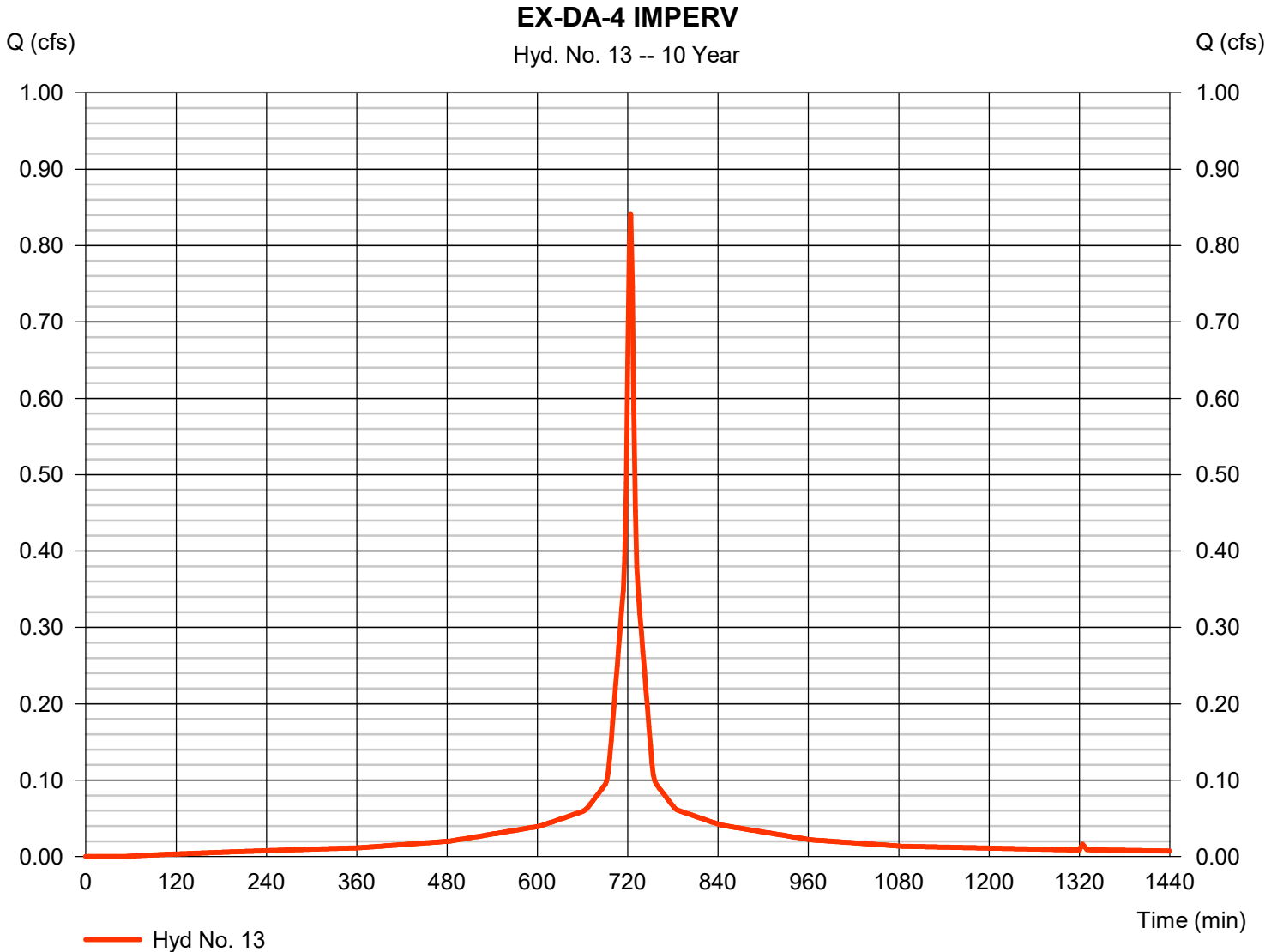


Hydrograph Report

Hyd. No. 13

EX-DA-4 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.841 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 2,893 cuft
Drainage area	= 0.177 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

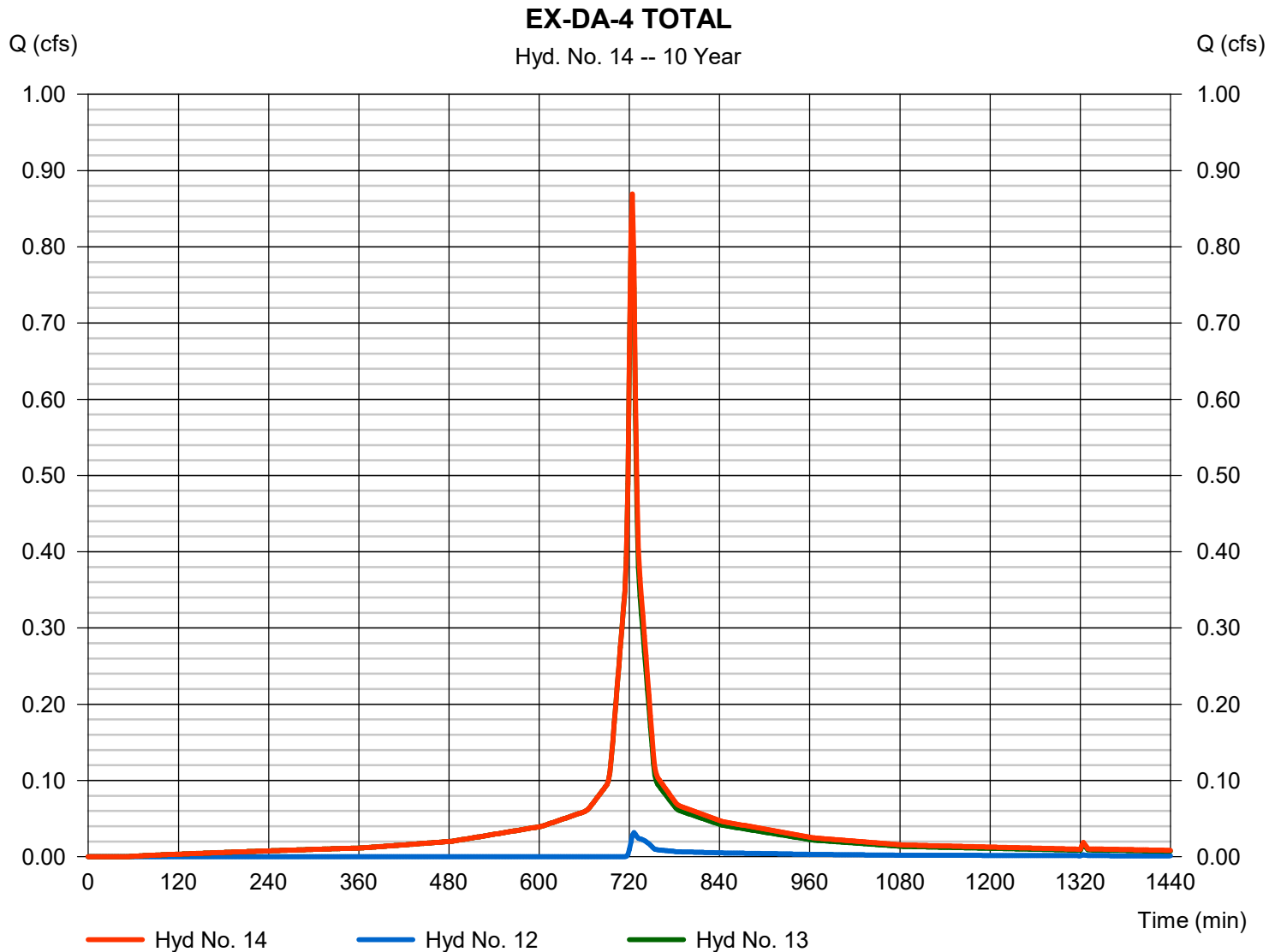
Friday, 02 / 28 / 2020

Hyd. No. 14

EX-DA-4 TOTAL

Hydrograph type = Combine
 Storm frequency = 10 yrs
 Time interval = 2 min
 Inflow hyds. = 12, 13

Peak discharge = 0.869 cfs
 Time to peak = 724 min
 Hyd. volume = 3,051 cuft
 Contrib. drain. area = 0.248 ac

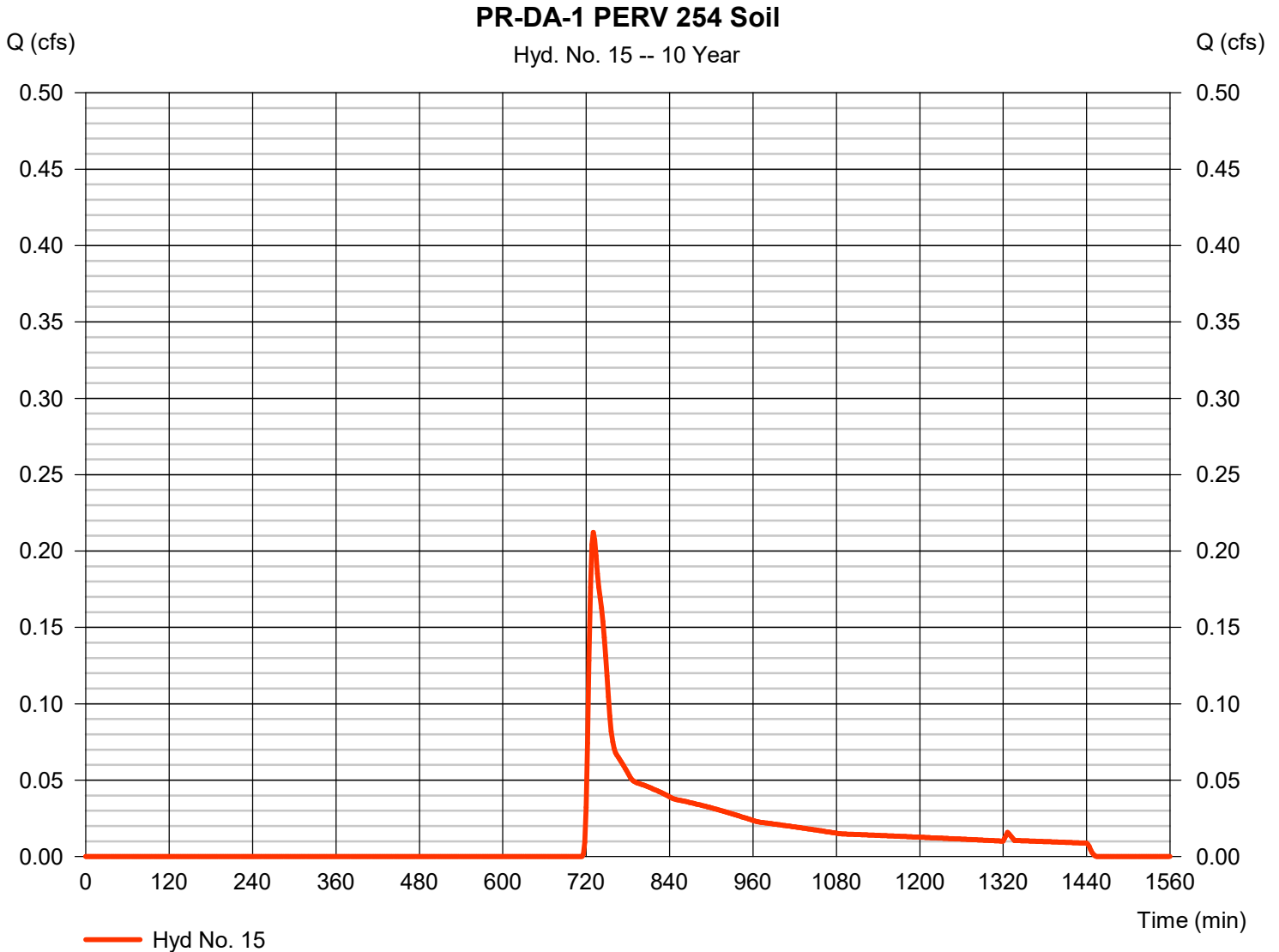


Hydrograph Report

Hyd. No. 15

PR-DA-1 PERV 254 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 0.212 cfs
Storm frequency	= 10 yrs	Time to peak	= 730 min
Time interval	= 2 min	Hyd. volume	= 1,207 cuft
Drainage area	= 0.508 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

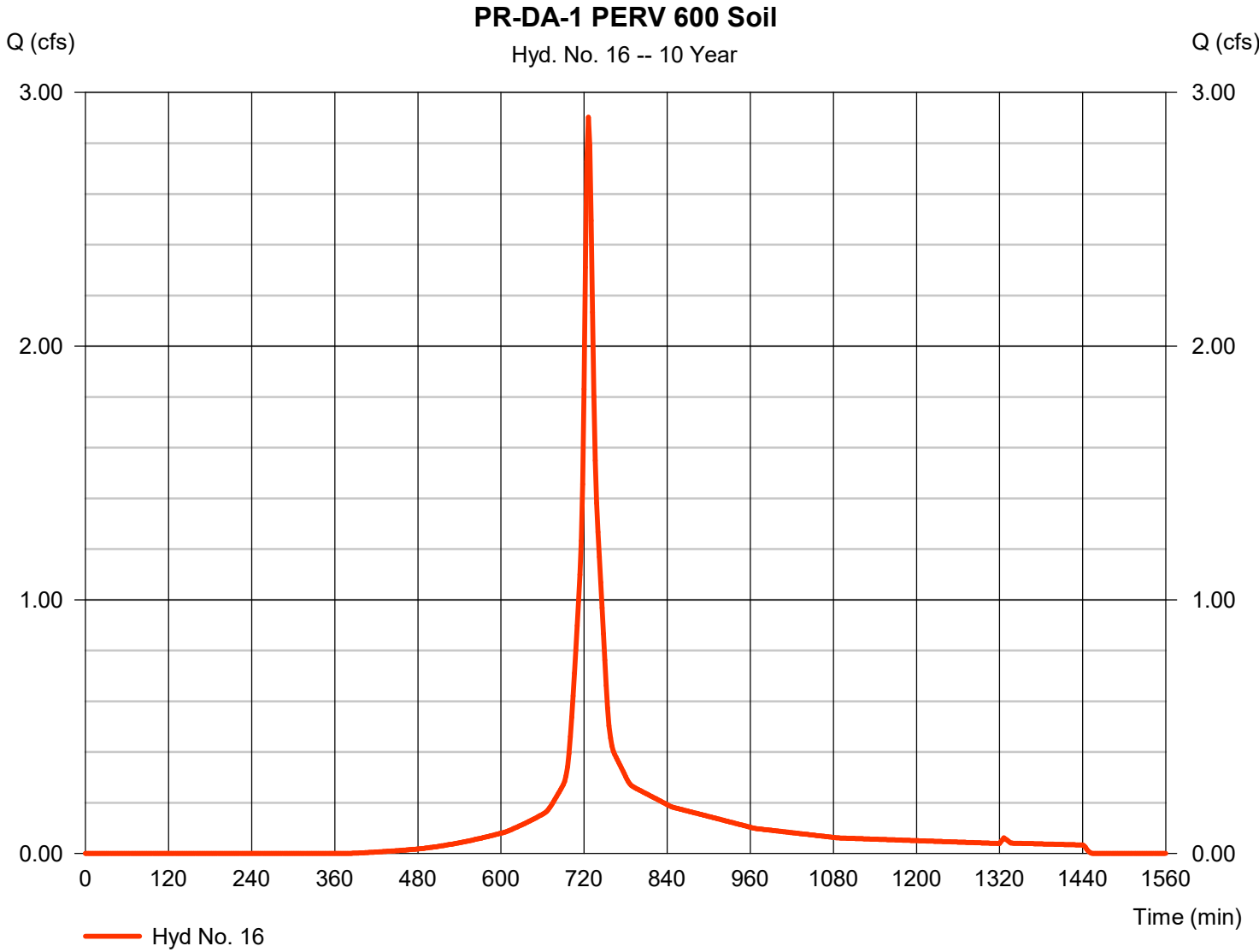


Hydrograph Report

Hyd. No. 16

PR-DA-1 PERV 600 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 2.902 cfs
Storm frequency	= 10 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 9,976 cuft
Drainage area	= 0.831 ac	Curve number	= 84
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

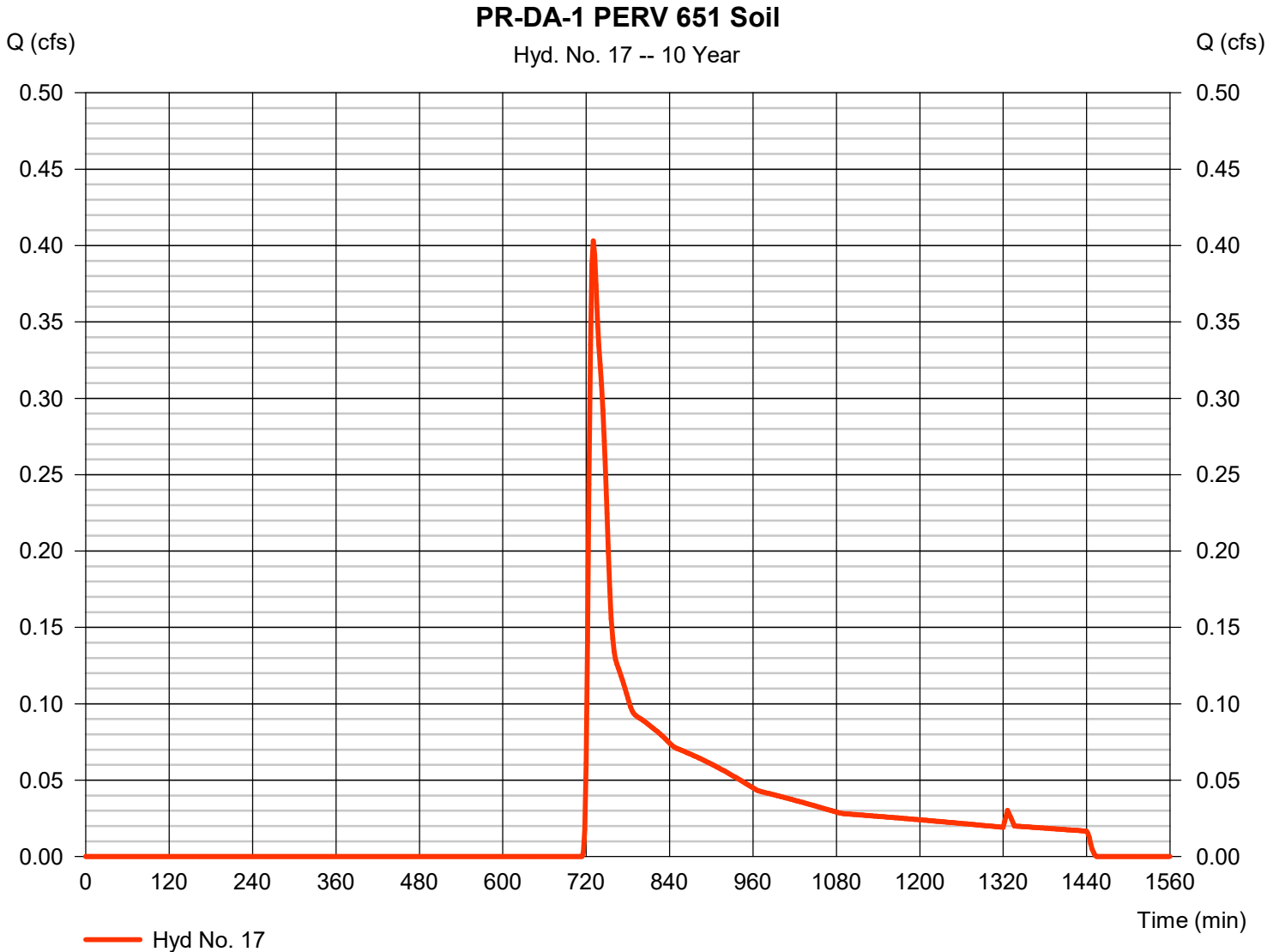
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Hyd. No. 17

PR-DA-1 PERV 651 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 0.403 cfs
Storm frequency	= 10 yrs	Time to peak	= 730 min
Time interval	= 2 min	Hyd. volume	= 2,294 cuft
Drainage area	= 0.965 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

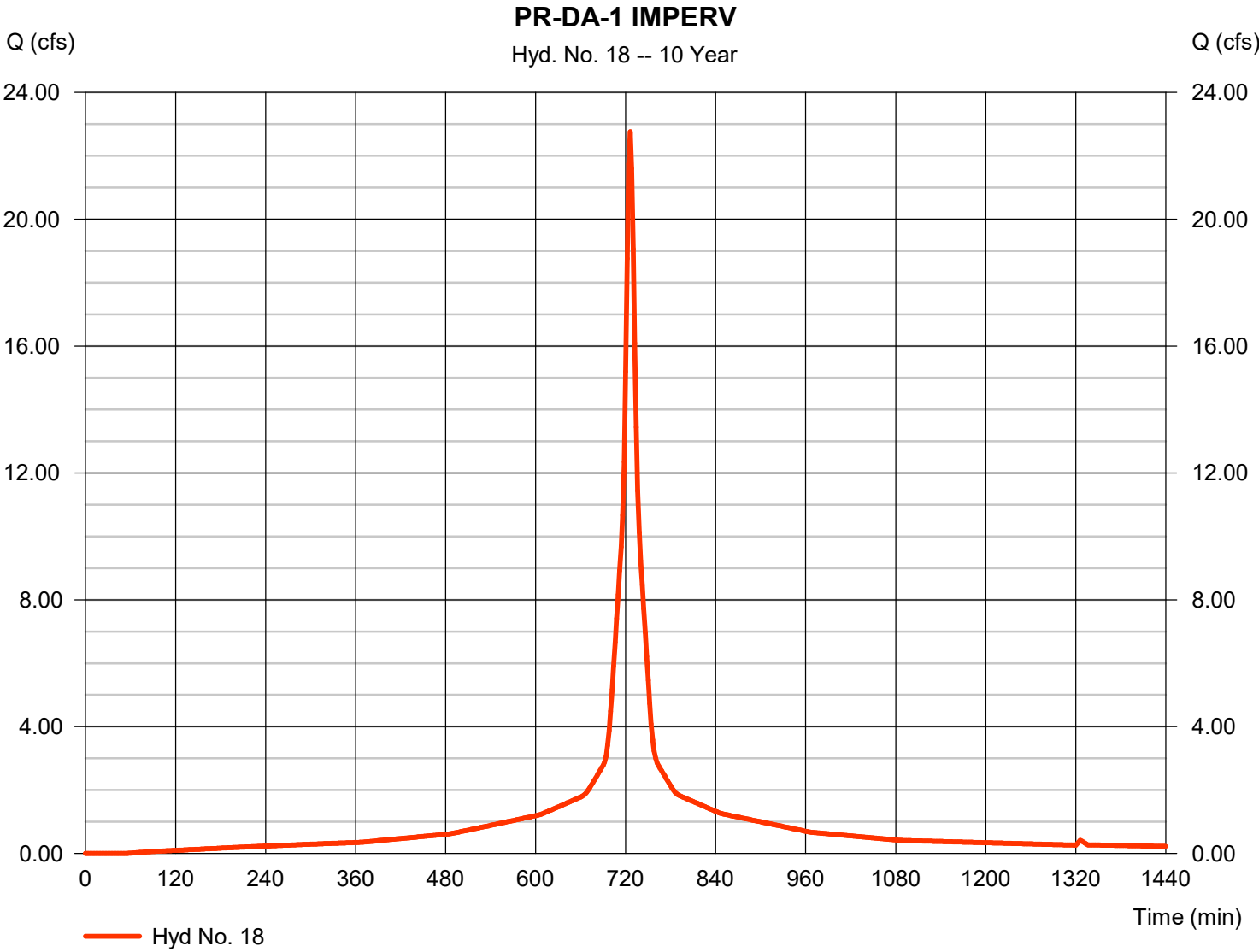


Hydrograph Report

Hyd. No. 18

PR-DA-1 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 22.76 cfs
Storm frequency	= 10 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 88,641 cuft
Drainage area	= 5.084 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

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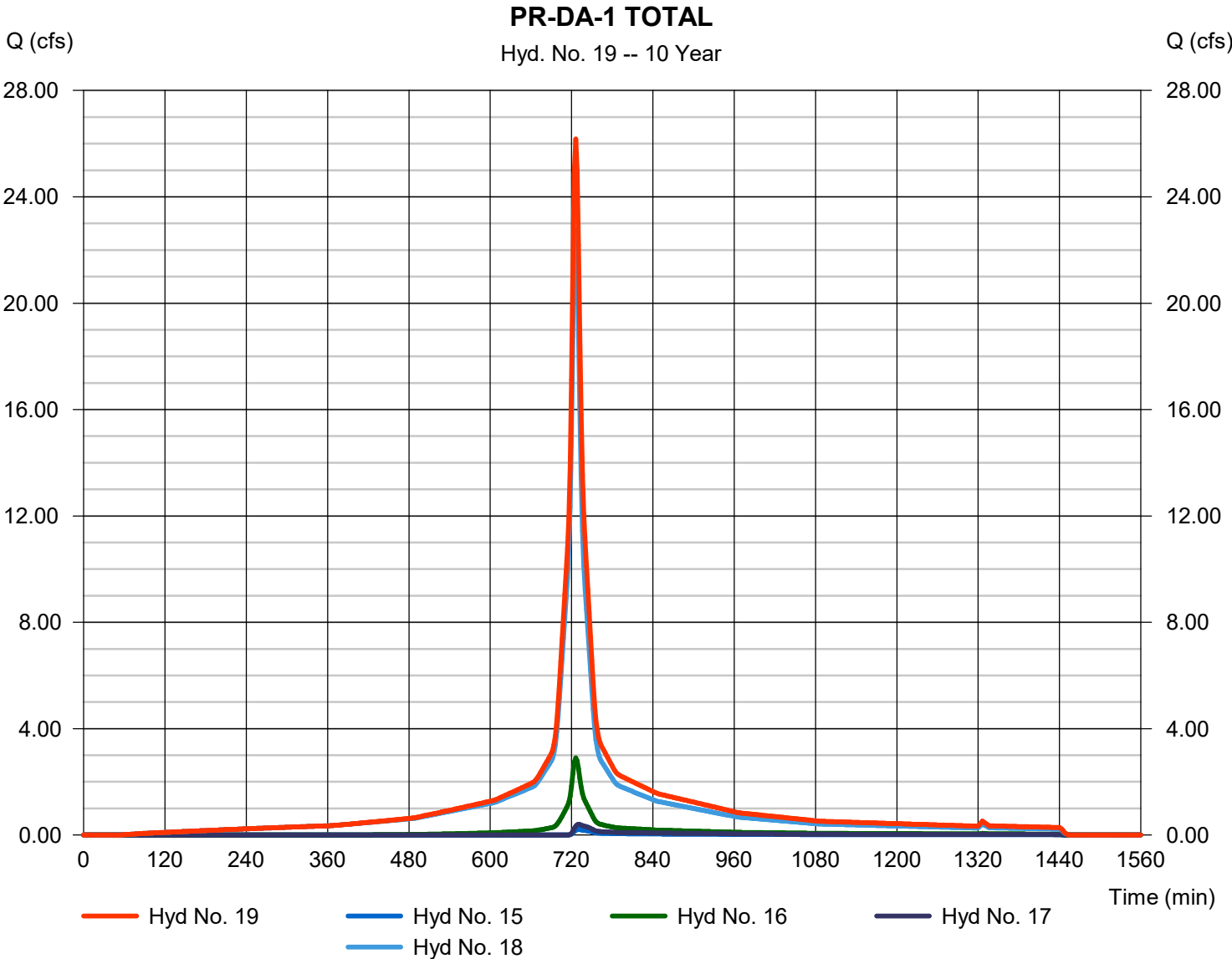
Friday, 02 / 28 / 2020

Hyd. No. 19

PR-DA-1 TOTAL

Hydrograph type = Combine
Storm frequency = 10 yrs
Time interval = 2 min
Inflow hyds. = 15, 16, 17, 18

Peak discharge = 26.18 cfs
Time to peak = 726 min
Hyd. volume = 102,118 cuft
Contrib. drain. area = 7.388 ac



Hydrograph Report

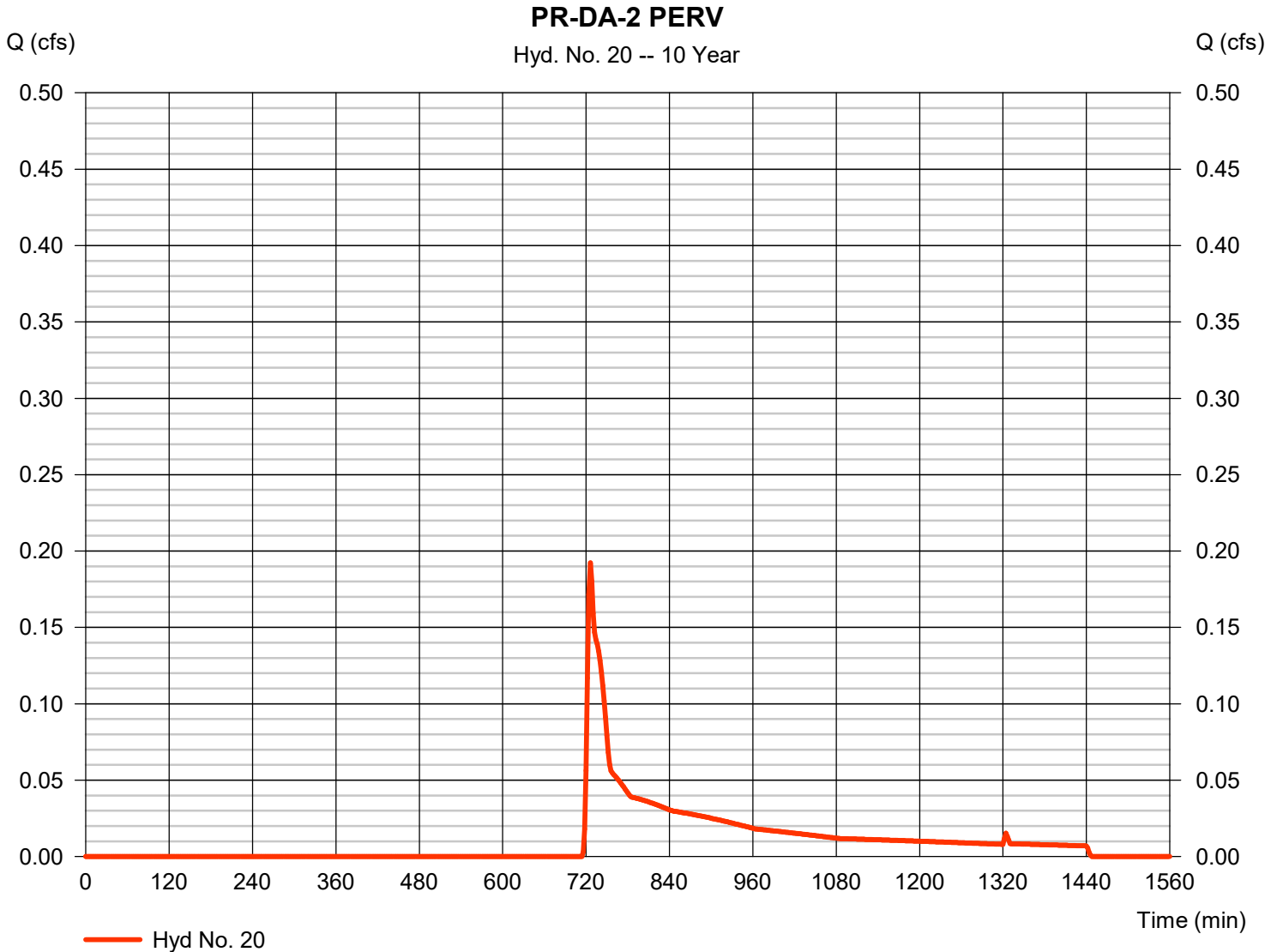
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Hyd. No. 20

PR-DA-2 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.192 cfs
Storm frequency	= 10 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 960 cuft
Drainage area	= 0.431 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.40 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

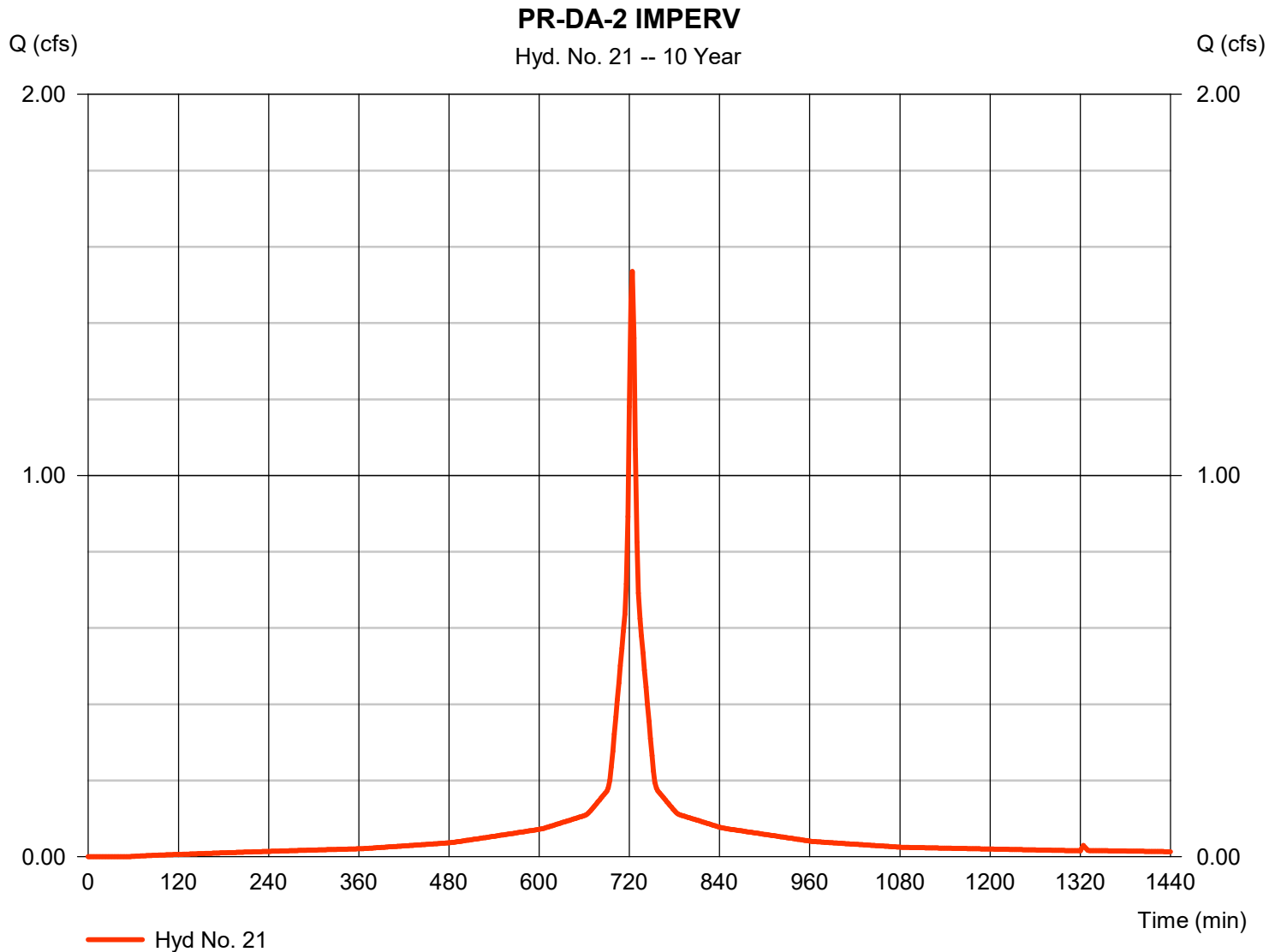
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Hyd. No. 21

PR-DA-2 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 1.535 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 5,280 cuft
Drainage area	= 0.323 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.40 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

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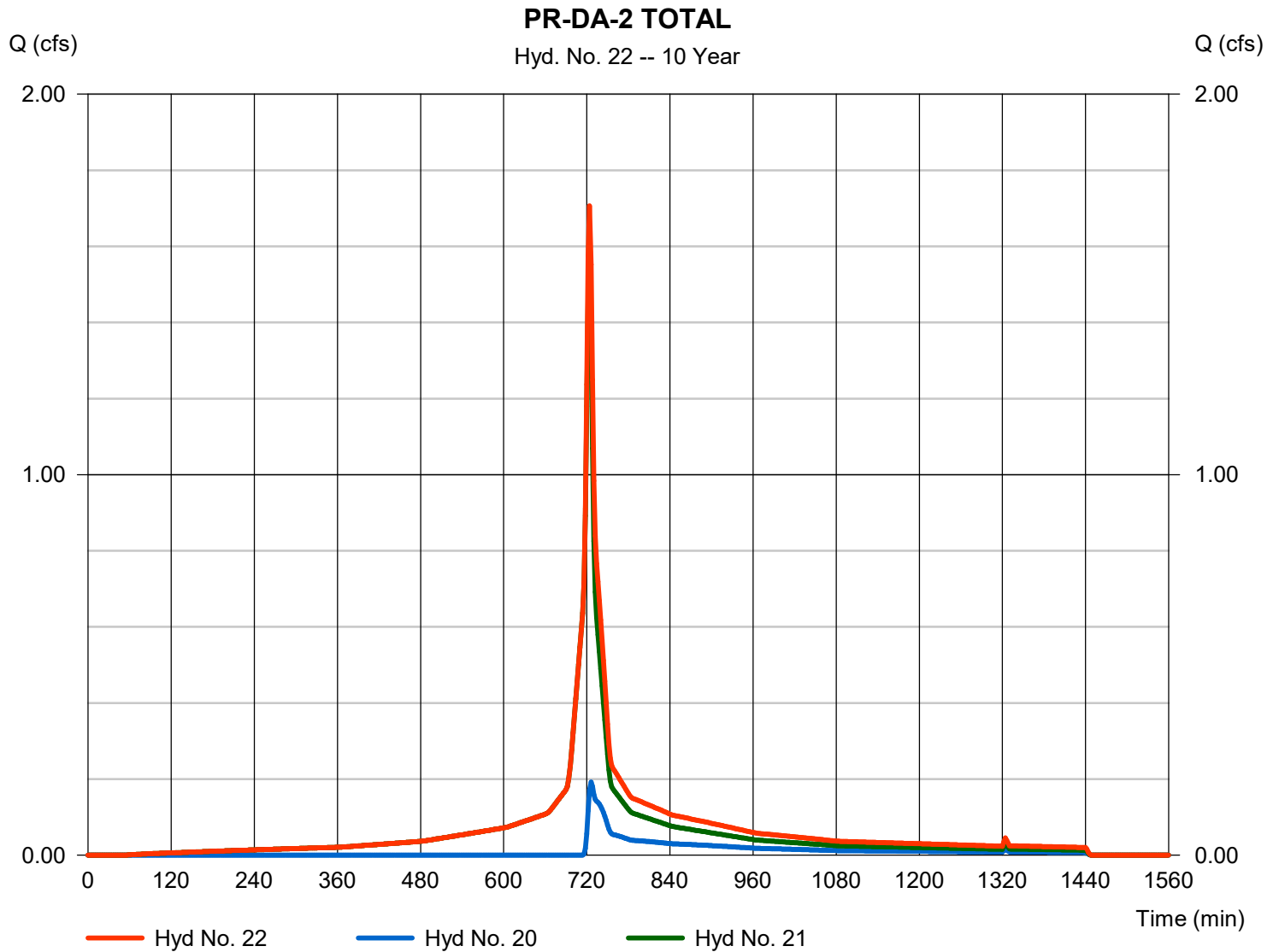
Friday, 02 / 28 / 2020

Hyd. No. 22

PR-DA-2 TOTAL

Hydrograph type = Combine
 Storm frequency = 10 yrs
 Time interval = 2 min
 Inflow hyds. = 20, 21

Peak discharge = 1.707 cfs
 Time to peak = 724 min
 Hyd. volume = 6,240 cuft
 Contrib. drain. area = 0.754 ac



Hydrograph Report

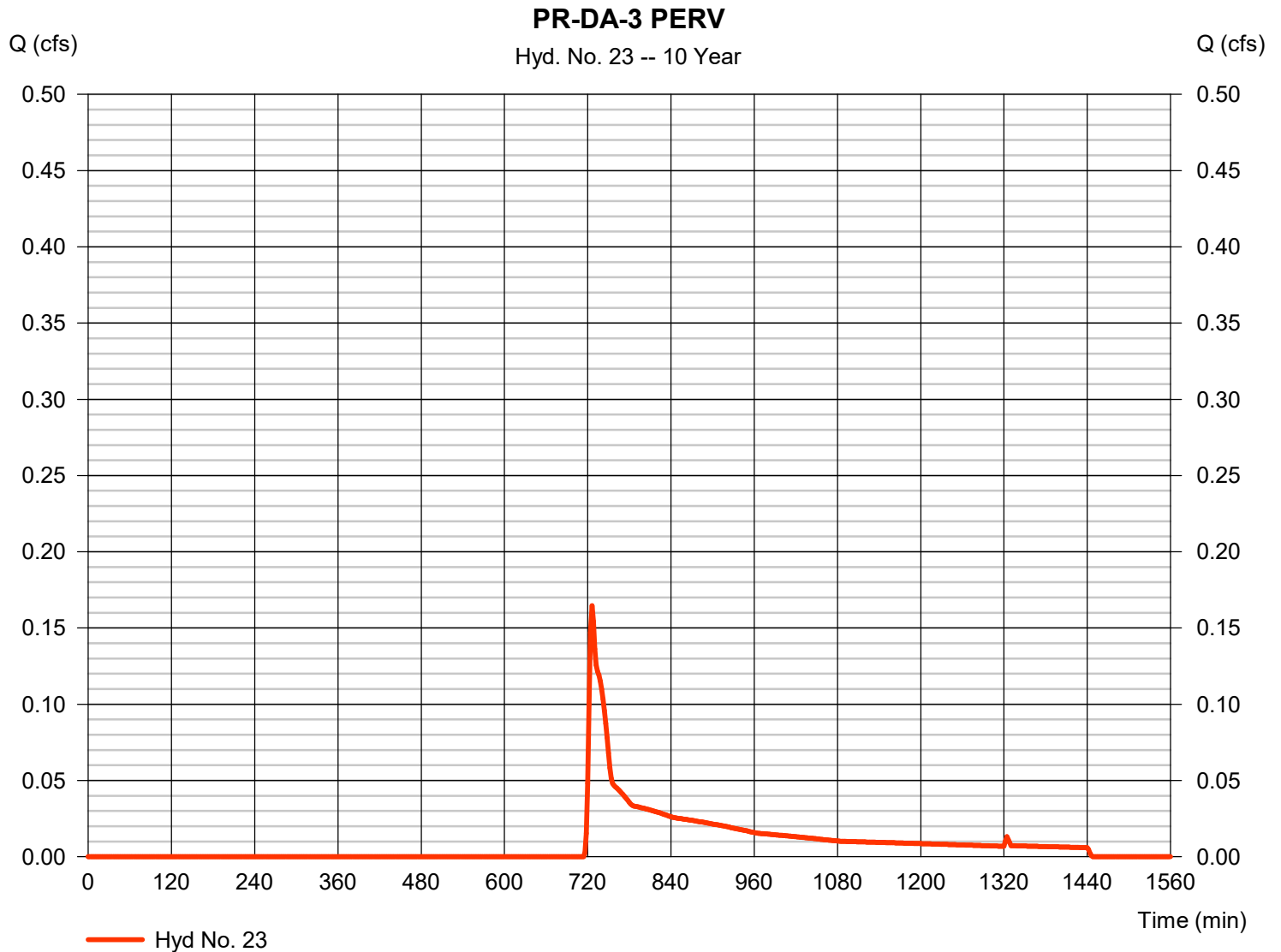
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Hyd. No. 23

PR-DA-3 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.165 cfs
Storm frequency	= 10 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 822 cuft
Drainage area	= 0.369 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

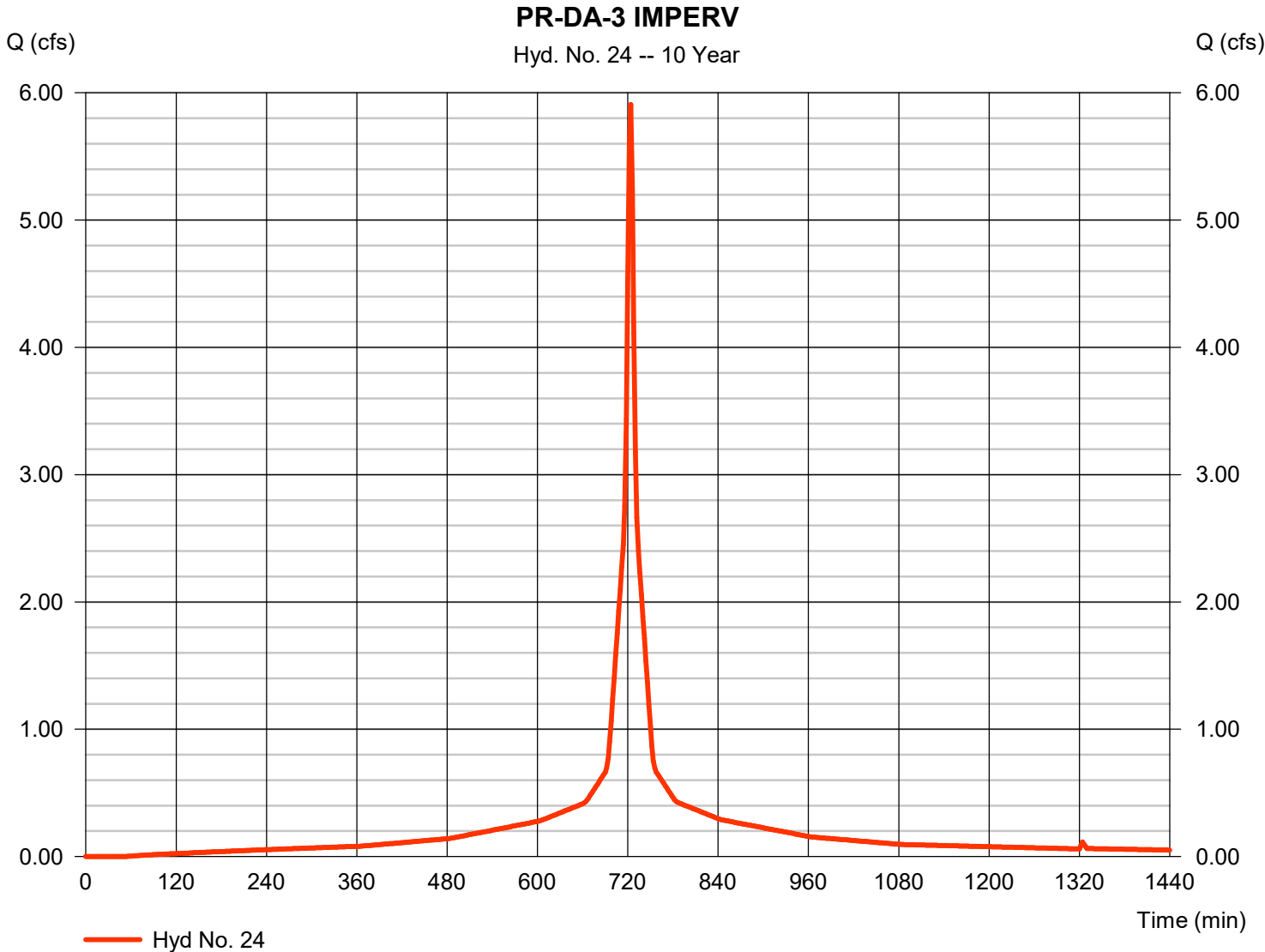
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Hyd. No. 24

PR-DA-3 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 5.908 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 20,318 cuft
Drainage area	= 1.243 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

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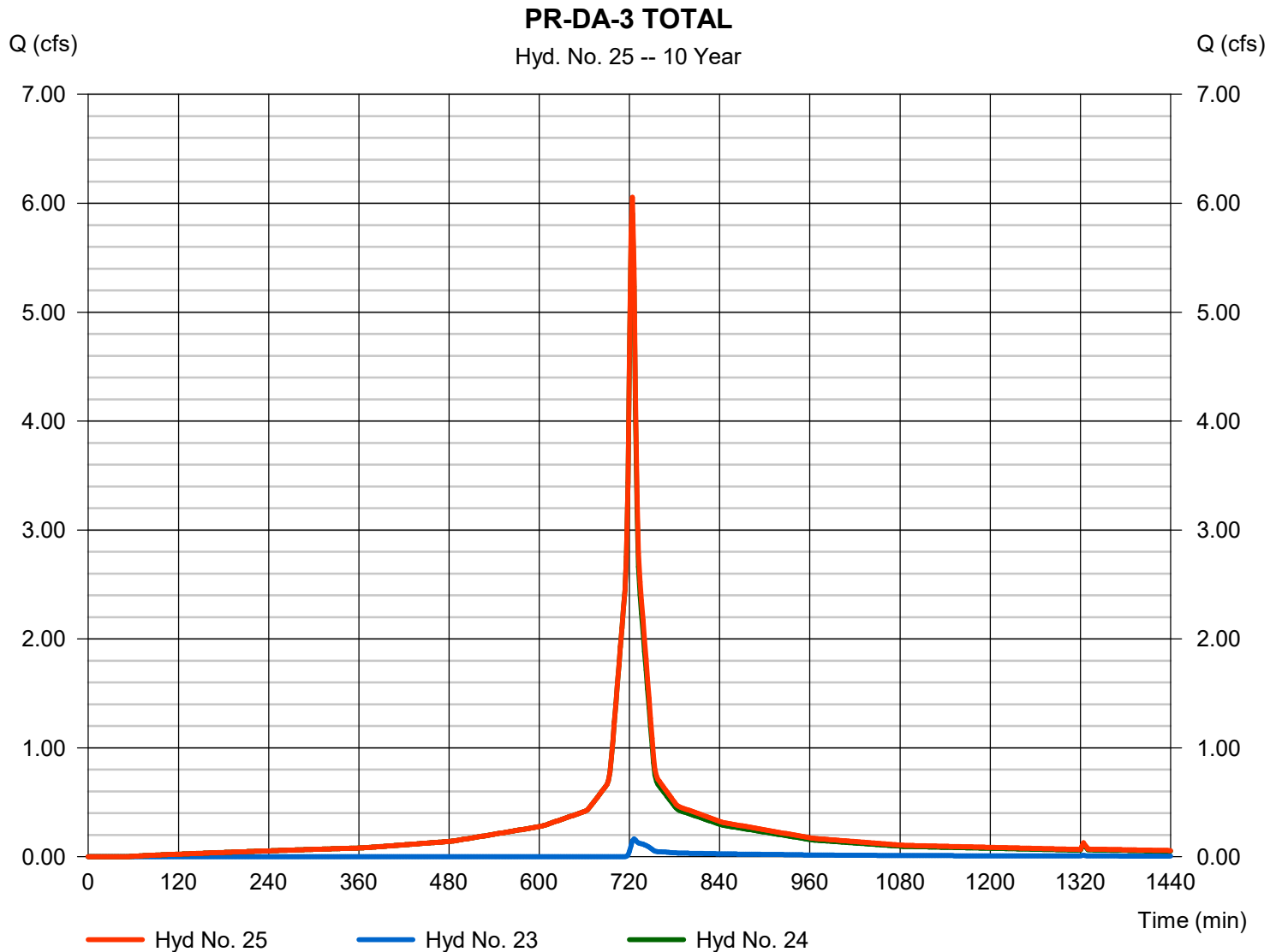
Friday, 02 / 28 / 2020

Hyd. No. 25

PR-DA-3 TOTAL

Hydrograph type = Combine
 Storm frequency = 10 yrs
 Time interval = 2 min
 Inflow hyds. = 23, 24

Peak discharge = 6.054 cfs
 Time to peak = 724 min
 Hyd. volume = 21,140 cuft
 Contrib. drain. area = 1.612 ac



Hydrograph Report

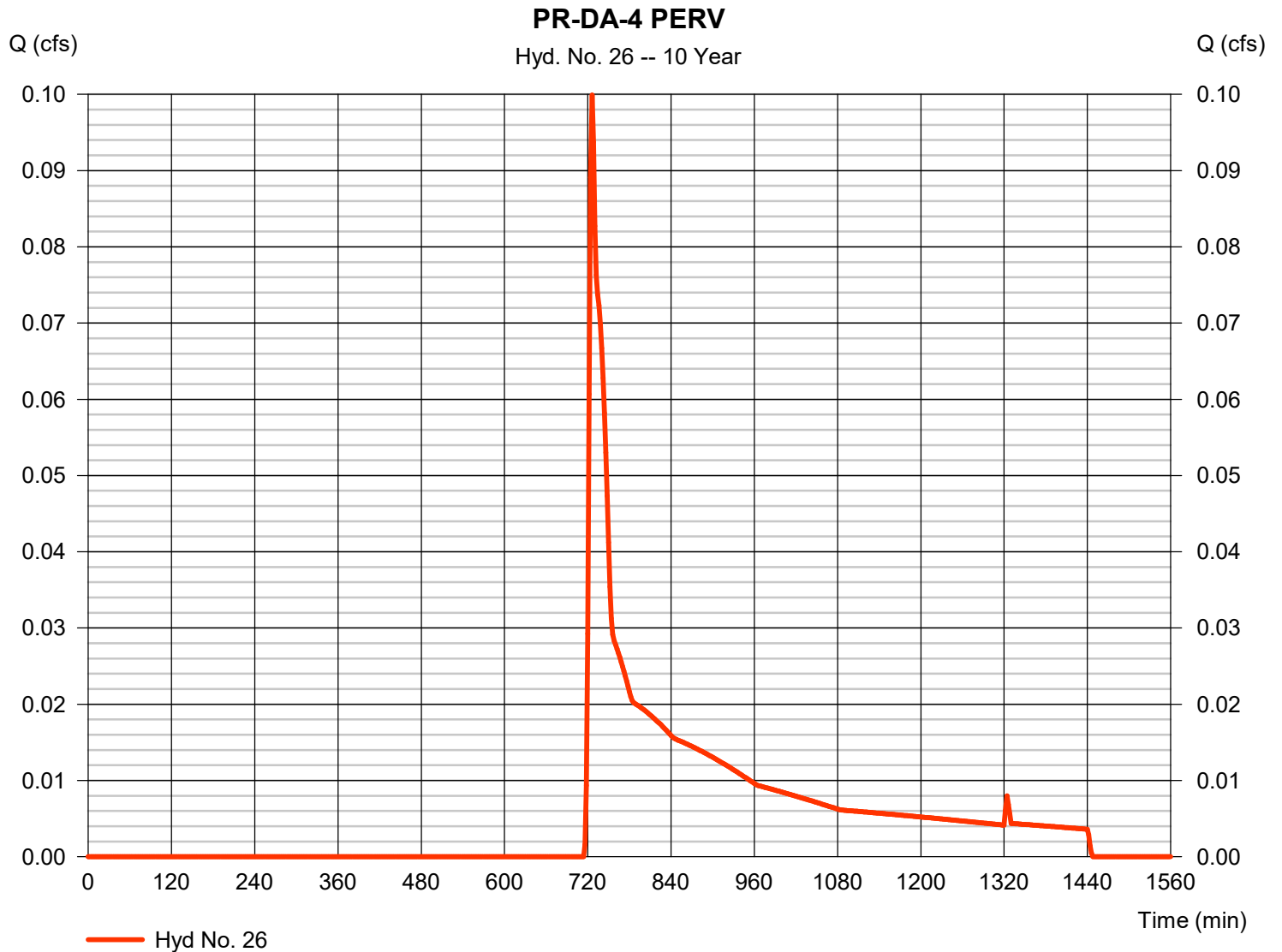
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Hyd. No. 26

PR-DA-4 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.100 cfs
Storm frequency	= 10 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 499 cuft
Drainage area	= 0.224 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 5.04 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

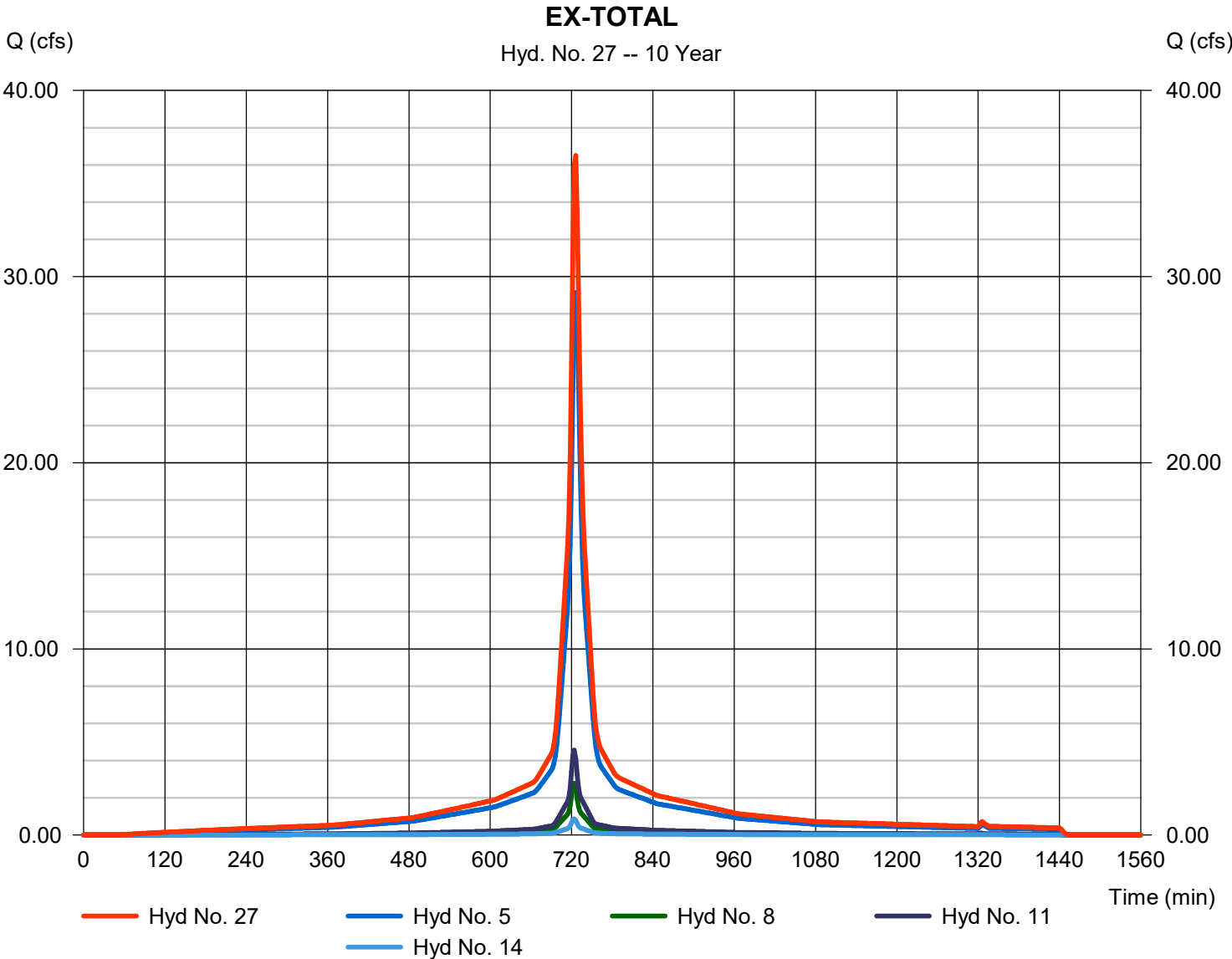
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Hyd. No. 27

EX-TOTAL

Hydrograph type	= Combine	Peak discharge	= 36.50 cfs
Storm frequency	= 10 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 142,471 cuft
Inflow hyds.	= 5, 8, 11, 14	Contrib. drain. area	= 0.000 ac



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

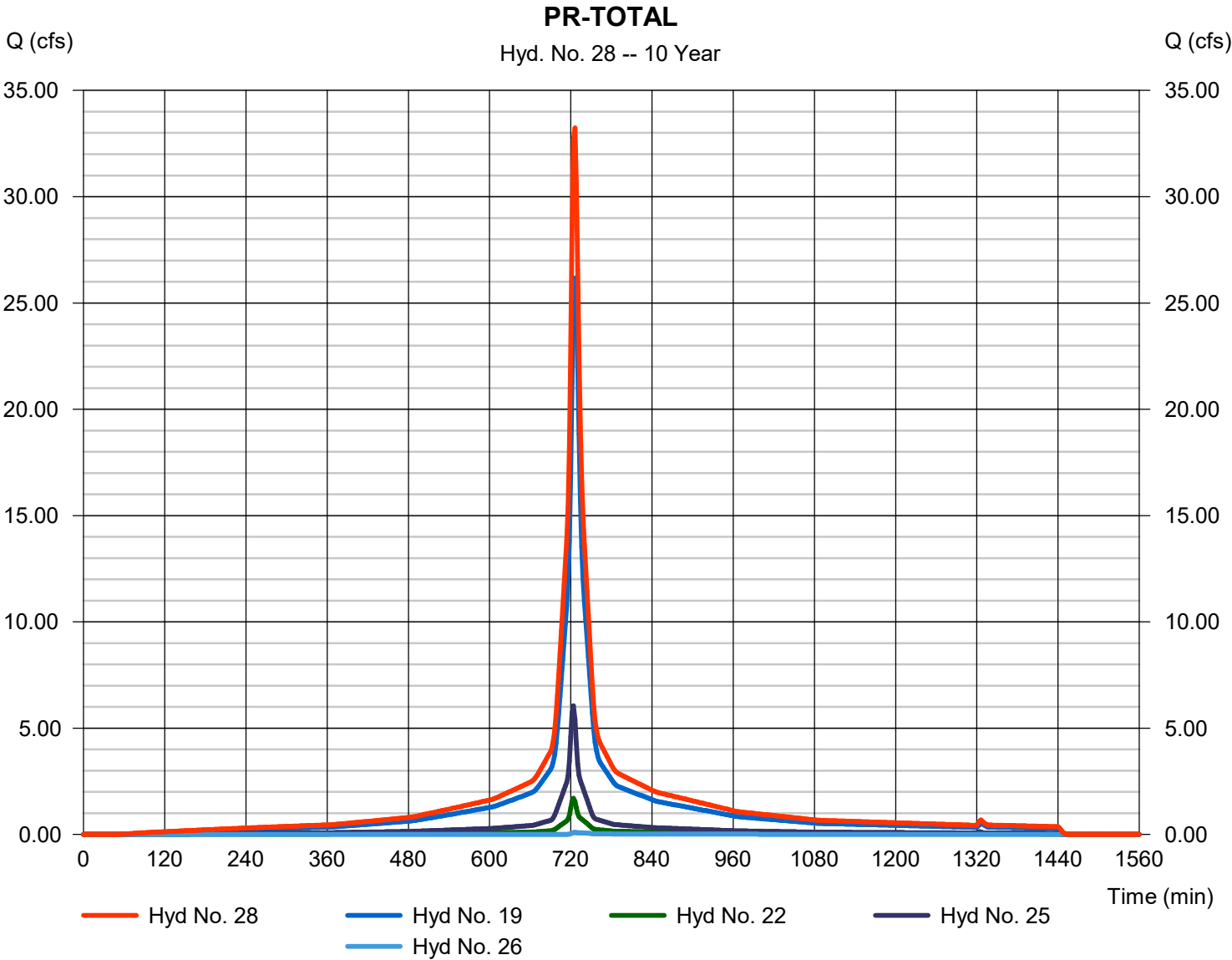
Friday, 02 / 28 / 2020

Hyd. No. 28

PR-TOTAL

Hydrograph type = Combine
Storm frequency = 10 yrs
Time interval = 2 min
Inflow hyds. = 19, 22, 25, 26

Peak discharge = 33.23 cfs
Time to peak = 726 min
Hyd. volume = 129,996 cuft
Contrib. drain. area = 0.224 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

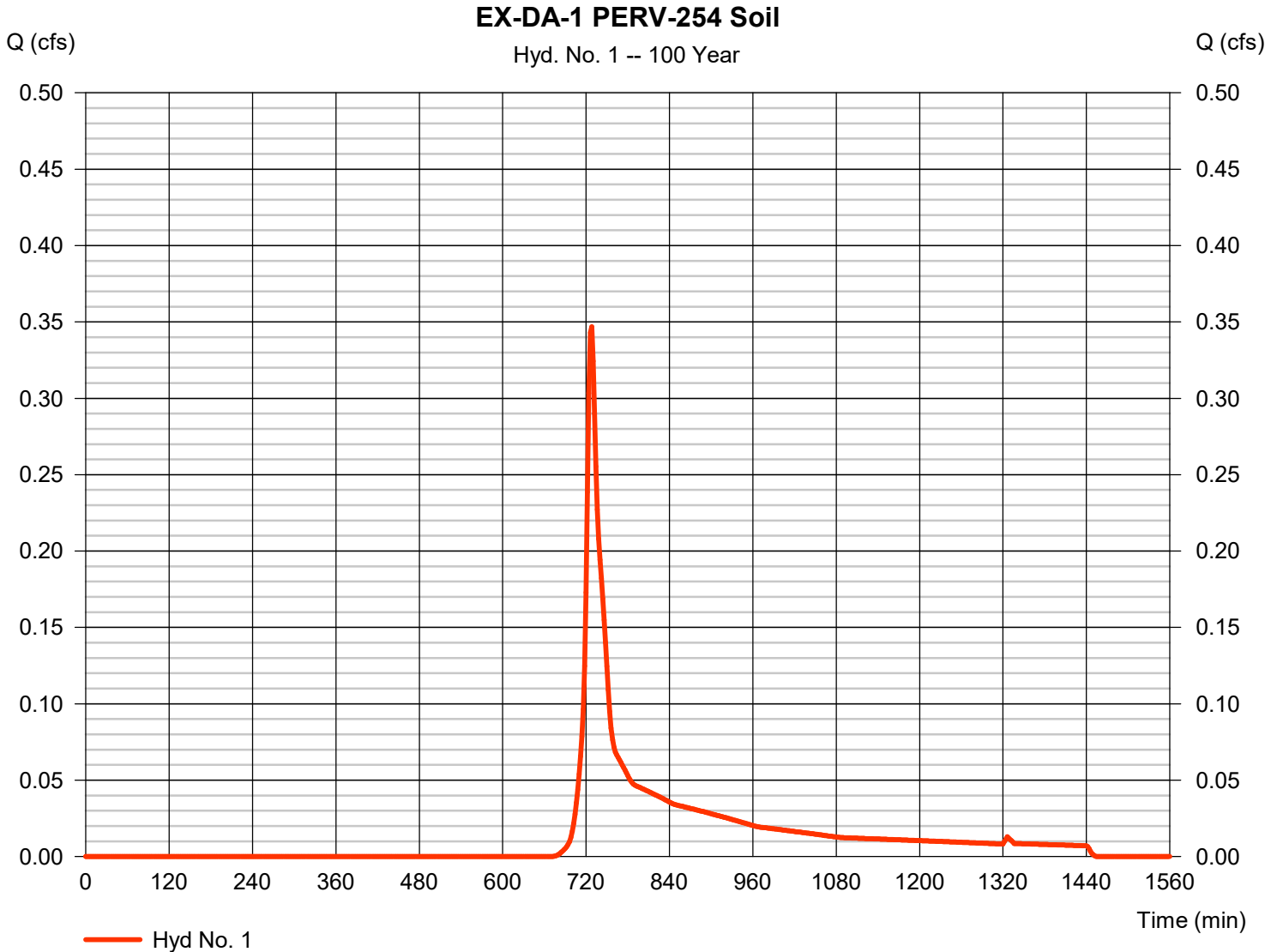
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	0.347	2	728	1,321	----	----	----	EX-DA-1 PERV-254 Soil
2	SCS Runoff	3.429	2	726	12,062	----	----	----	EX-DA-1 PERV 600 Soil
3	SCS Runoff	1.346	2	728	5,126	----	----	----	EX-DA-1 PERV 651 Soil
4	SCS Runoff	42.40	2	726	167,420	----	----	----	EX-DA-1 IMPERV
5	Combine	47.50	2	726	185,930	1, 2, 3, 4	----	----	EX-DA-1 TOTAL
6	SCS Runoff	0.528	2	724	1,752	----	----	----	EX-DA-2 PERV
7	SCS Runoff	4.213	2	724	14,696	----	----	----	EX-DA-2 IMPERV
8	Combine	4.741	2	724	16,447	6, 7	----	----	EX-DA-2 TOTAL
9	SCS Runoff	1.283	2	724	4,258	----	----	----	EX-DA-3 PERV
10	SCS Runoff	6.795	2	724	23,701	----	----	----	EX-DA-3 IMPERV
11	Combine	8.078	2	724	27,959	9, 10	----	----	EX-DA-3 TOTAL
12	SCS Runoff	0.152	2	724	506	----	----	----	EX-DA-4 PERV
13	SCS Runoff	1.325	2	724	4,620	----	----	----	EX-DA-4 IMPERV
14	Combine	1.477	2	724	5,126	12, 13	----	----	EX-DA-4 TOTAL
15	SCS Runoff	1.013	2	728	3,858	----	----	----	PR-DA-1 PERV 254 Soil
16	SCS Runoff	5.153	2	726	18,126	----	----	----	PR-DA-1 PERV 600 Soil
17	SCS Runoff	1.924	2	728	7,329	----	----	----	PR-DA-1 PERV 651 Soil
18	SCS Runoff	35.85	2	726	141,554	----	----	----	PR-DA-1 IMPERV
19	Combine	43.90	2	726	170,867	15, 16, 17, 18	----	----	PR-DA-1 TOTAL
20	SCS Runoff	0.924	2	724	3,069	----	----	----	PR-DA-2 PERV
21	SCS Runoff	2.417	2	724	8,431	----	----	----	PR-DA-2 IMPERV
22	Combine	3.342	2	724	11,500	20, 21	----	----	PR-DA-2 TOTAL
23	SCS Runoff	0.791	2	724	2,627	----	----	----	PR-DA-3 PERV
24	SCS Runoff	9.302	2	724	32,446	----	----	----	PR-DA-3 IMPERV
25	Combine	10.09	2	724	35,073	23, 24	----	----	PR-DA-3 TOTAL
26	SCS Runoff	0.480	2	724	1,595	----	----	----	PR-DA-4 PERV
27	Combine	60.31	2	726	235,462	5, 8, 11, 14,	----	----	EX-TOTAL
28	Combine	56.39	2	726	219,035	19, 22, 25, 26,	----	----	PR-TOTAL
Hydroflow Calc.gpw					Return Period: 100 Year			Friday, 02 / 28 / 2020	

Hydrograph Report

Hyd. No. 1

EX-DA-1 PERV-254 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 0.347 cfs
Storm frequency	= 100 yrs	Time to peak	= 728 min
Time interval	= 2 min	Hyd. volume	= 1,321 cuft
Drainage area	= 0.174 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

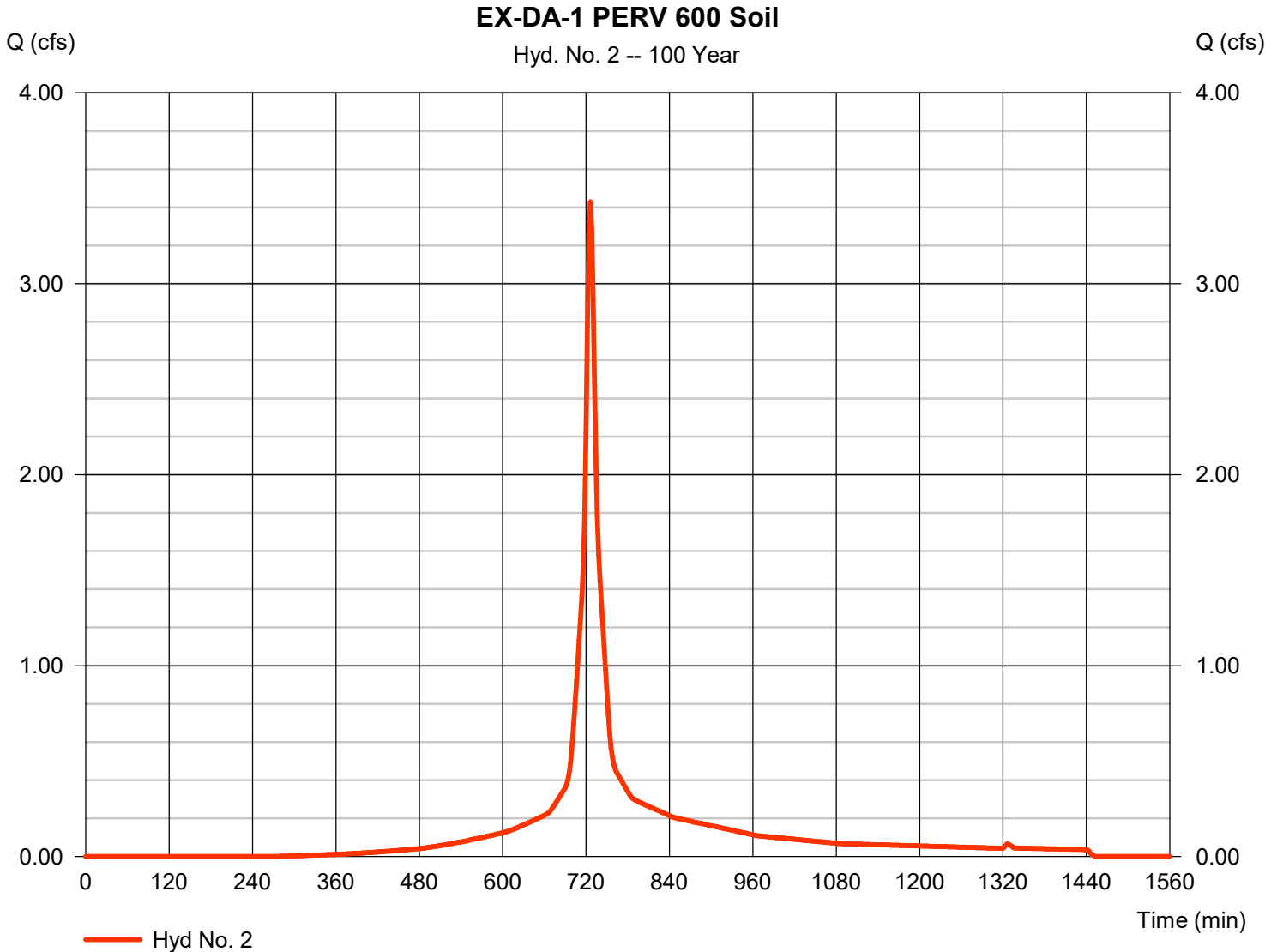
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Hyd. No. 2

EX-DA-1 PERV 600 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 3.429 cfs
Storm frequency	= 100 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 12,062 cuft
Drainage area	= 0.553 ac	Curve number	= 84
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

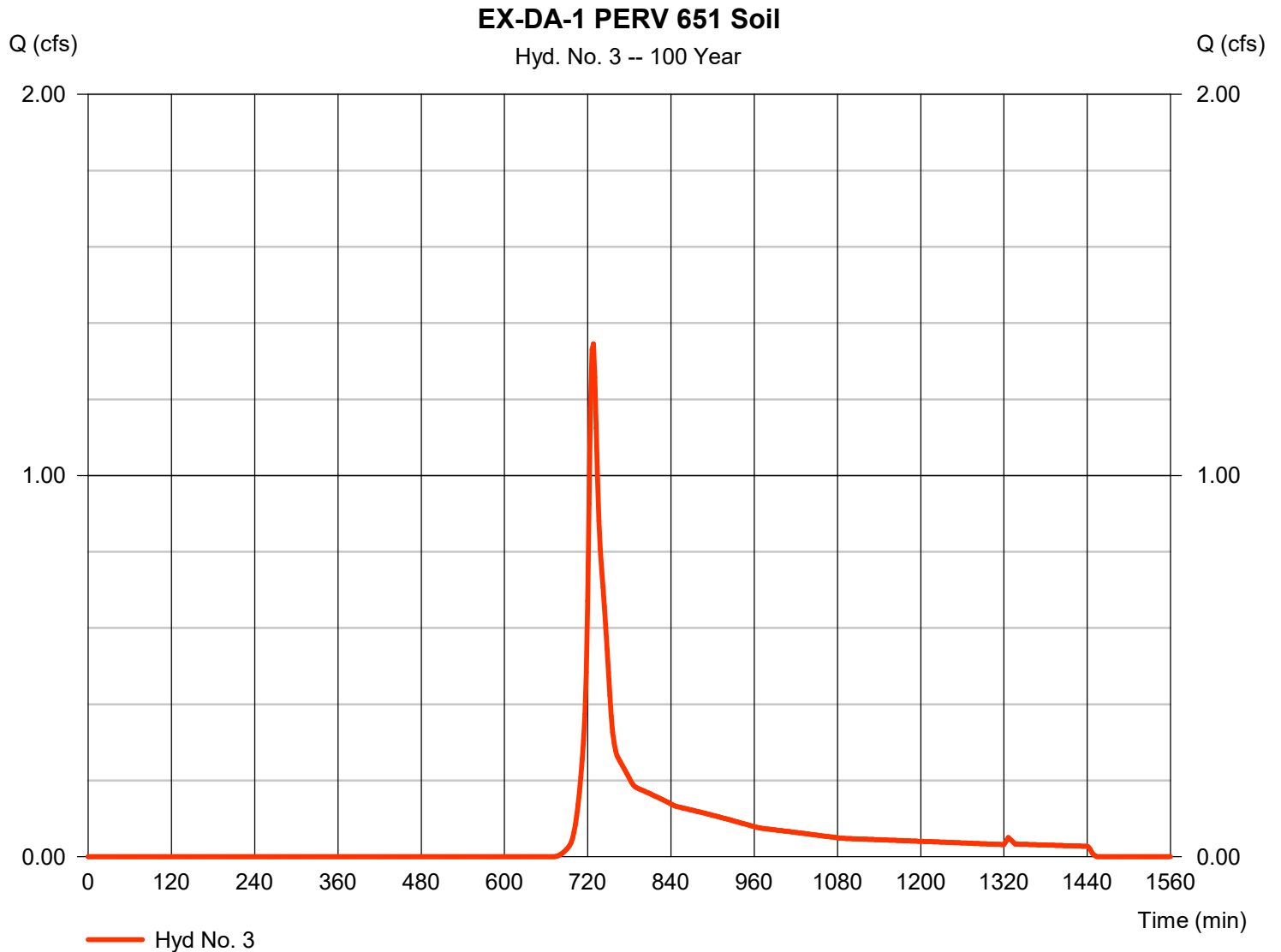
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Hyd. No. 3

EX-DA-1 PERV 651 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 1.346 cfs
Storm frequency	= 100 yrs	Time to peak	= 728 min
Time interval	= 2 min	Hyd. volume	= 5,126 cuft
Drainage area	= 0.675 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

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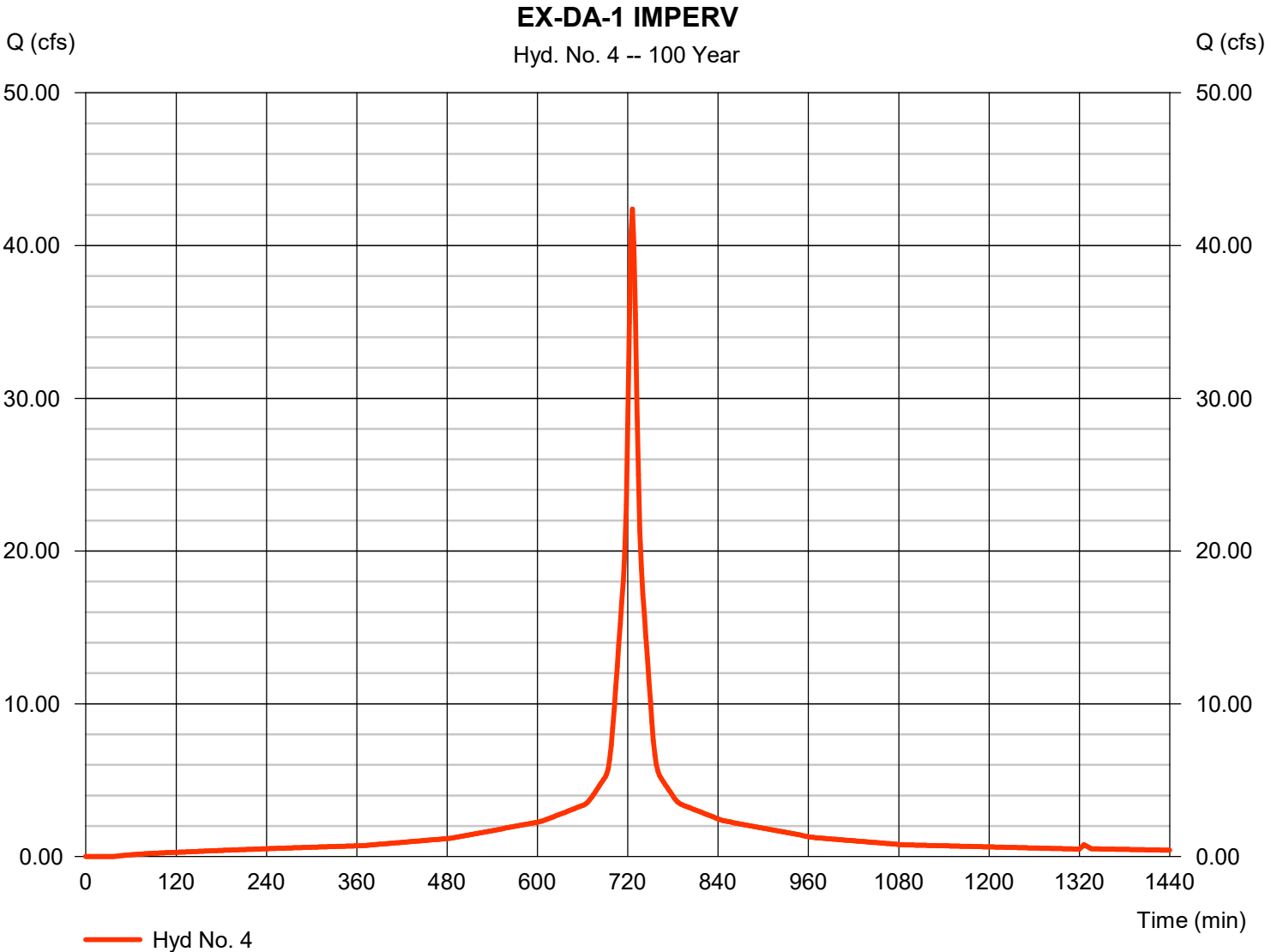
Friday, 02 / 28 / 2020

Hyd. No. 4

EX-DA-1 IMPERV

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Time interval = 2 min
Drainage area = 6.013 ac
Basin Slope = 0.0 %
Tc method = User
Total precip. = 7.91 in
Storm duration = 24 hrs

Peak discharge = 42.40 cfs
Time to peak = 726 min
Hyd. volume = 167,420 cuft
Curve number = 98
Hydraulic length = 0 ft
Time of conc. (Tc) = 7.10 min
Distribution = Type III
Shape factor = 484



Hydrograph Report

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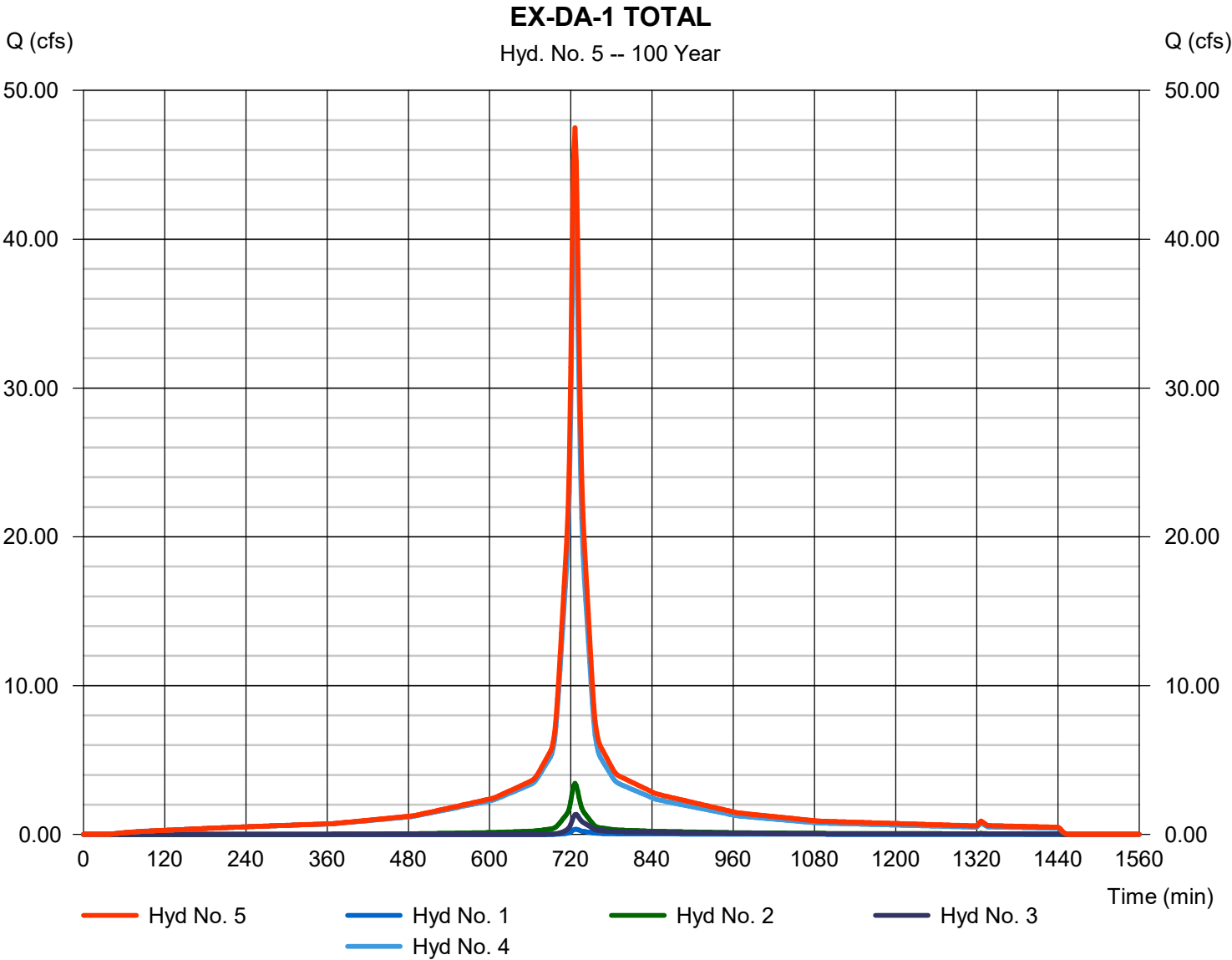
Friday, 02 / 28 / 2020

Hyd. No. 5

EX-DA-1 TOTAL

Hydrograph type = Combine
Storm frequency = 100 yrs
Time interval = 2 min
Inflow hyds. = 1, 2, 3, 4

Peak discharge = 47.50 cfs
Time to peak = 726 min
Hyd. volume = 185,930 cuft
Contrib. drain. area = 7.415 ac



Hydrograph Report

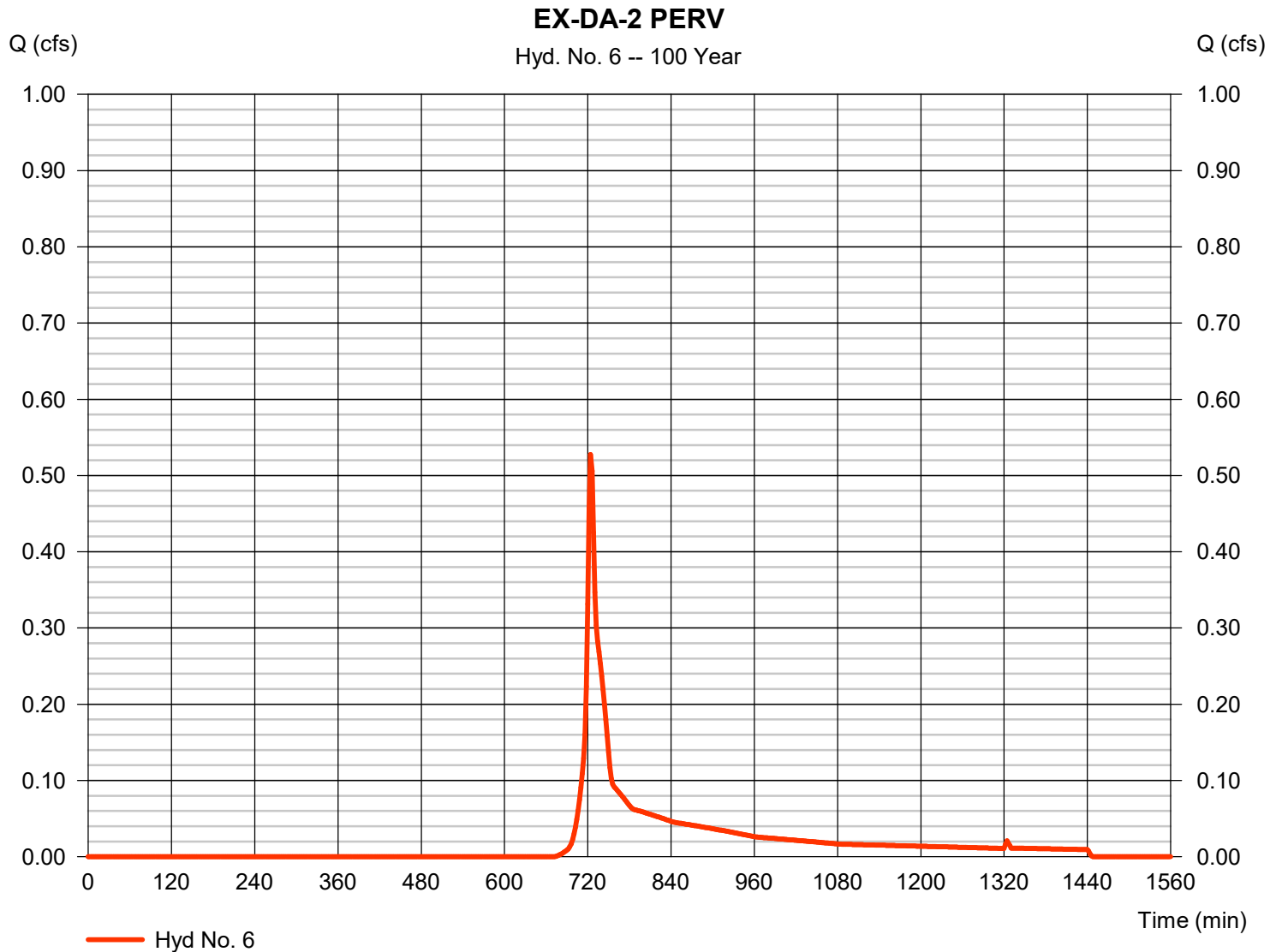
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Hyd. No. 6

EX-DA-2 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.528 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 1,752 cuft
Drainage area	= 0.246 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

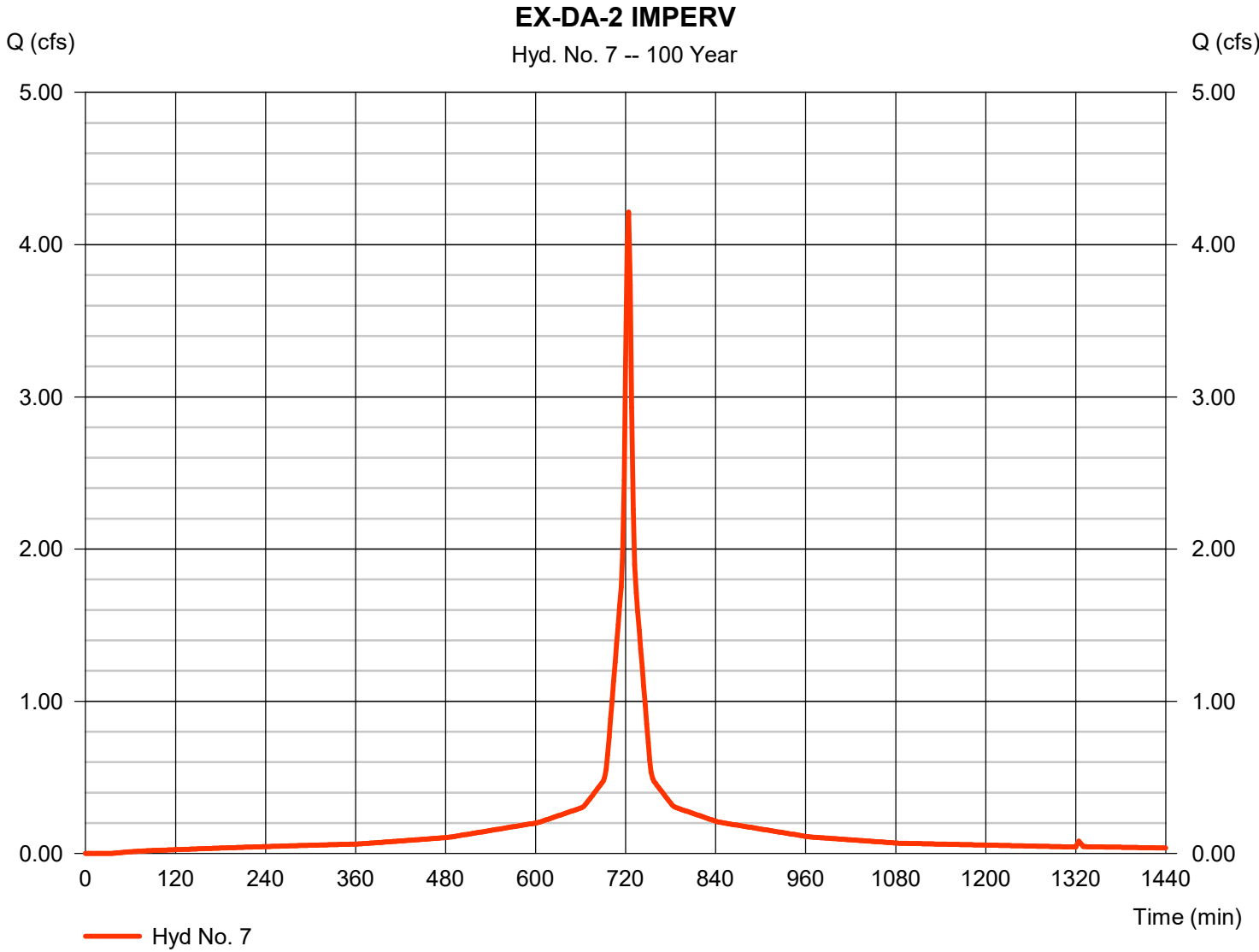
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Hyd. No. 7

EX-DA-2 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 4.213 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 14,696 cuft
Drainage area	= 0.563 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

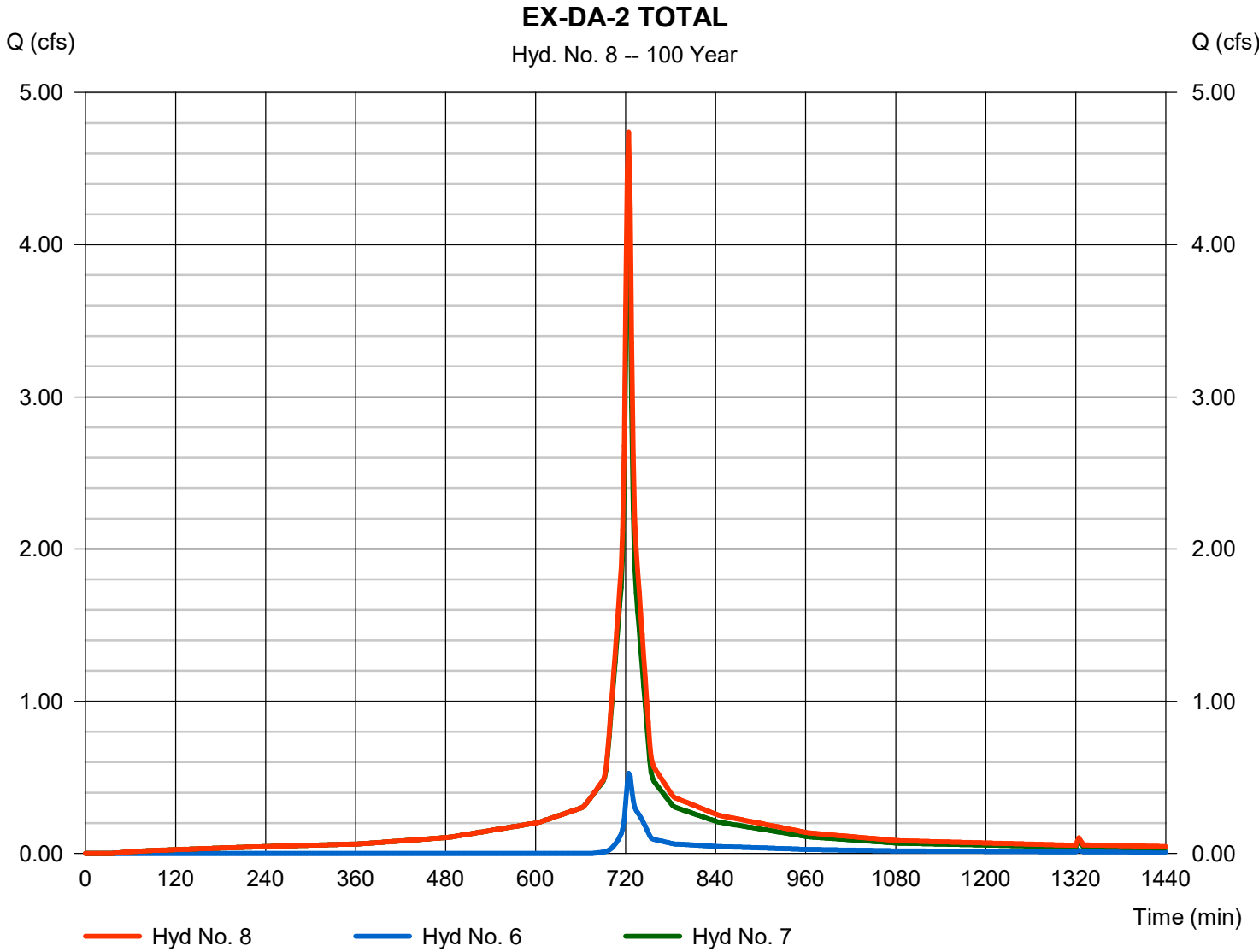
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Hyd. No. 8

EX-DA-2 TOTAL

Hydrograph type	= Combine	Peak discharge	= 4.741 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 16,447 cuft
Inflow hyds.	= 6, 7	Contrib. drain. area	= 0.809 ac



Hydrograph Report

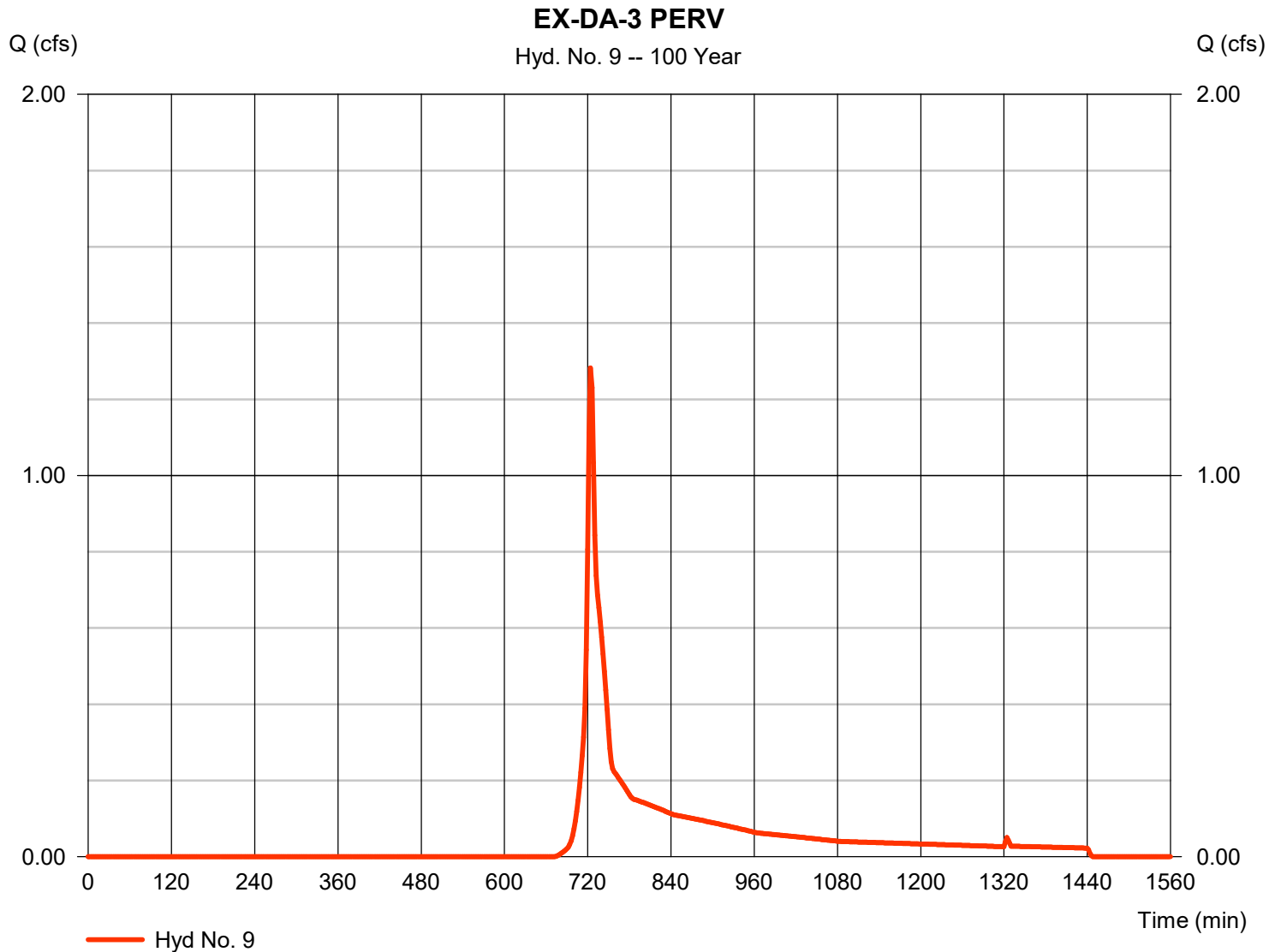
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Hyd. No. 9

EX-DA-3 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 1.283 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 4,258 cuft
Drainage area	= 0.598 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.40 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

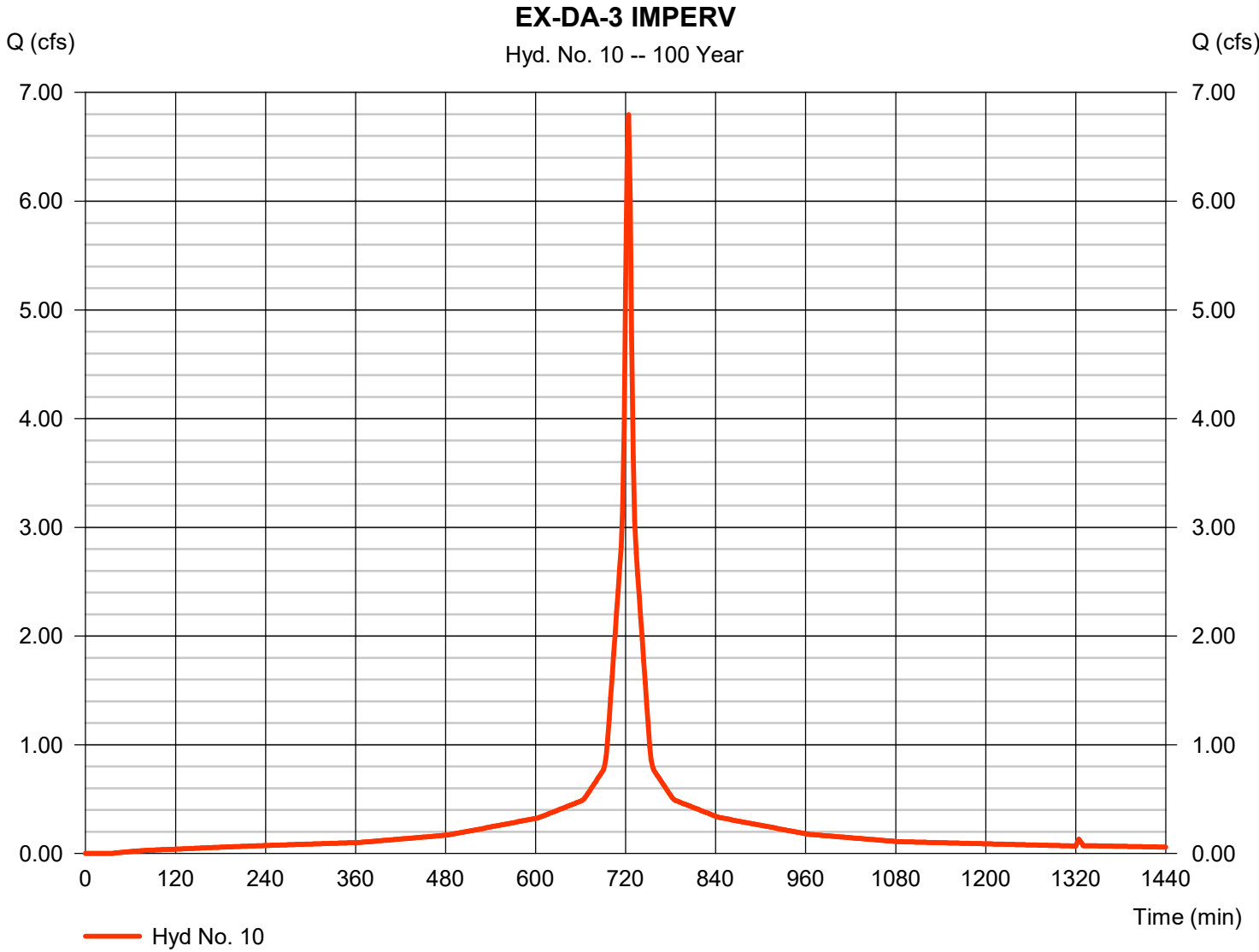


Hydrograph Report

Hyd. No. 10

EX-DA-3 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 6.795 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 23,701 cuft
Drainage area	= 0.908 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.40 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

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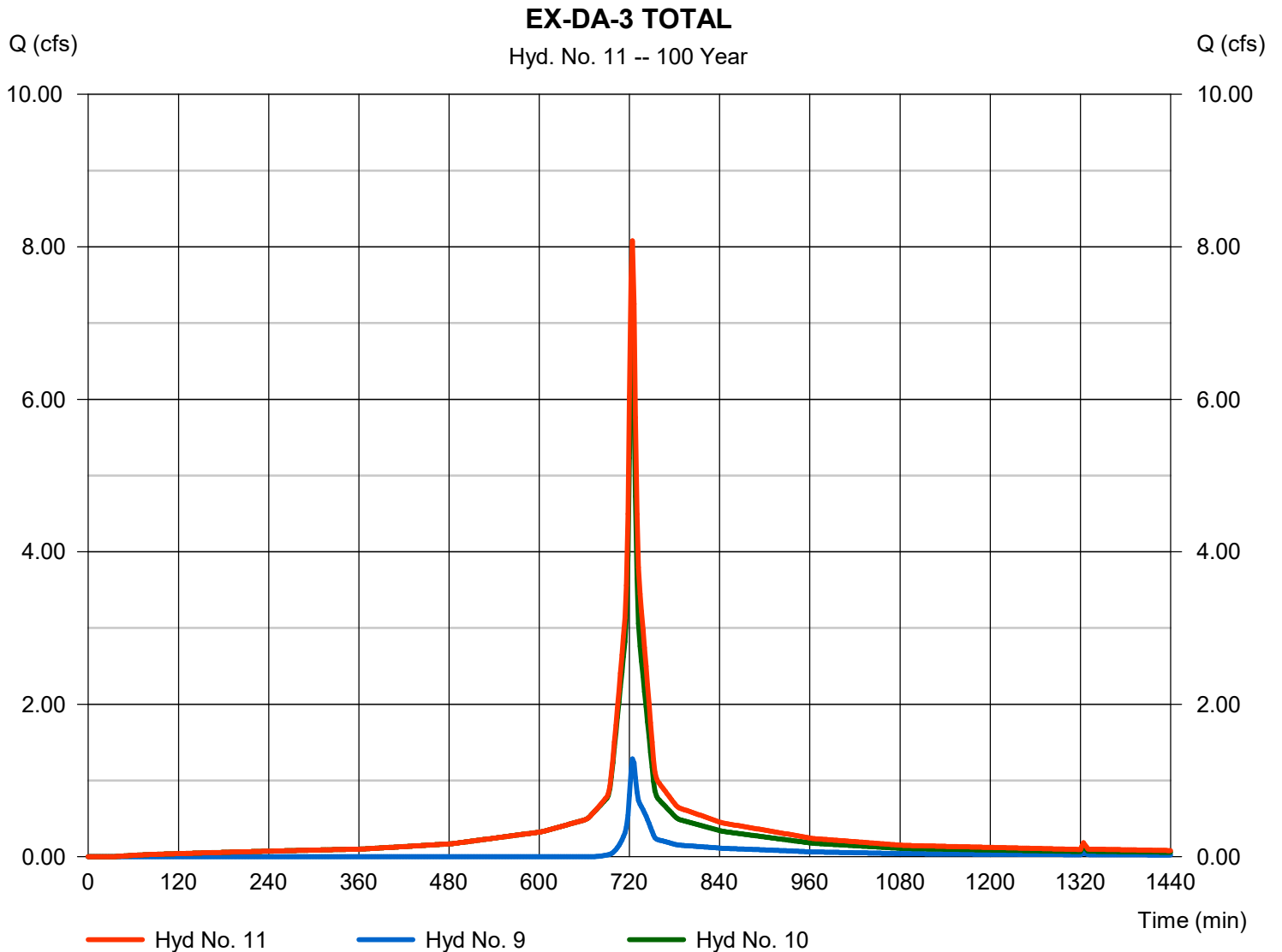
Friday, 02 / 28 / 2020

Hyd. No. 11

EX-DA-3 TOTAL

Hydrograph type = Combine
Storm frequency = 100 yrs
Time interval = 2 min
Inflow hyds. = 9, 10

Peak discharge = 8.078 cfs
Time to peak = 724 min
Hyd. volume = 27,959 cuft
Contrib. drain. area = 1.506 ac



Hydrograph Report

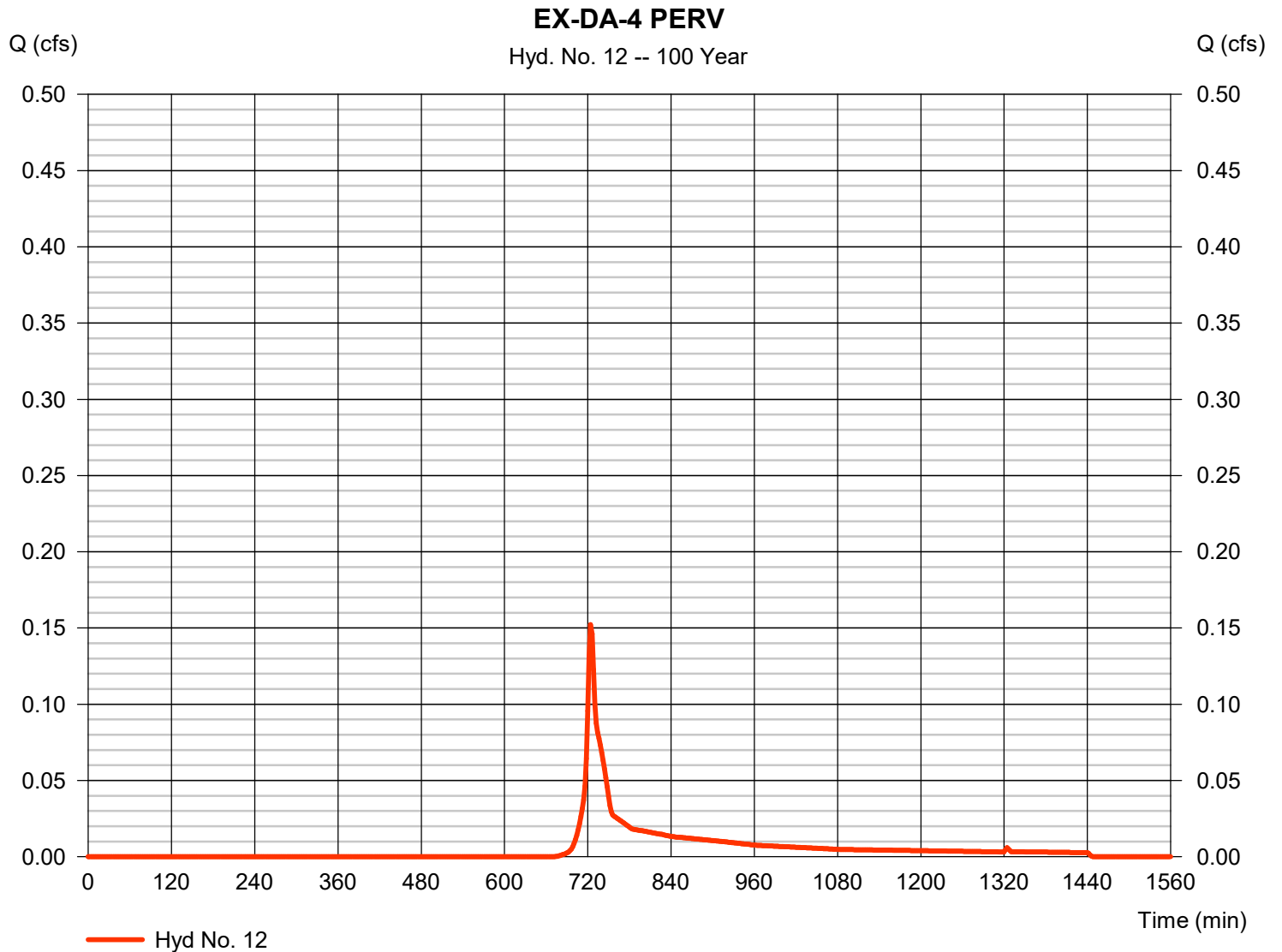
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Hyd. No. 12

EX-DA-4 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.152 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 506 cuft
Drainage area	= 0.071 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

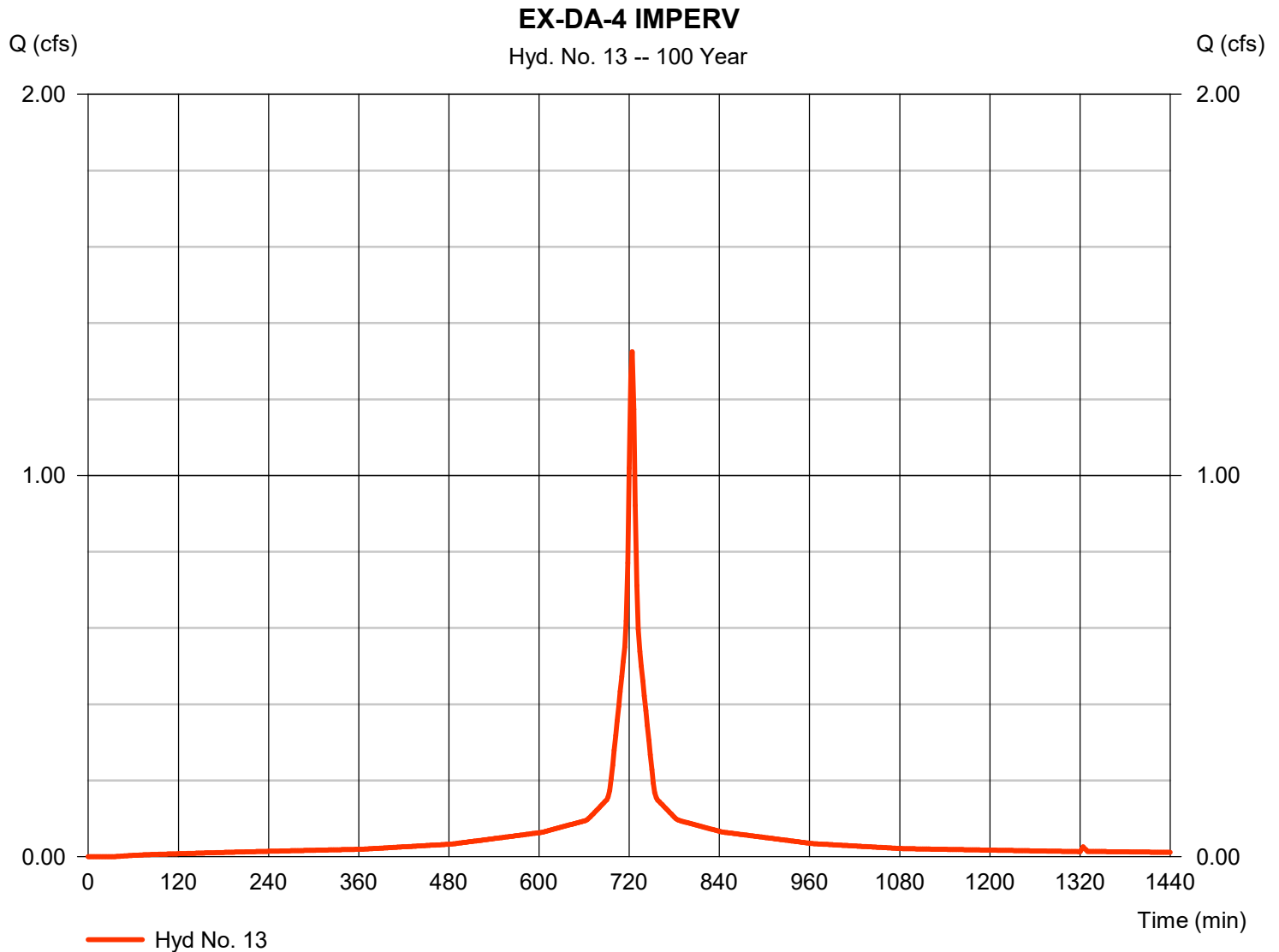
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Hyd. No. 13

EX-DA-4 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 1.325 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 4,620 cuft
Drainage area	= 0.177 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

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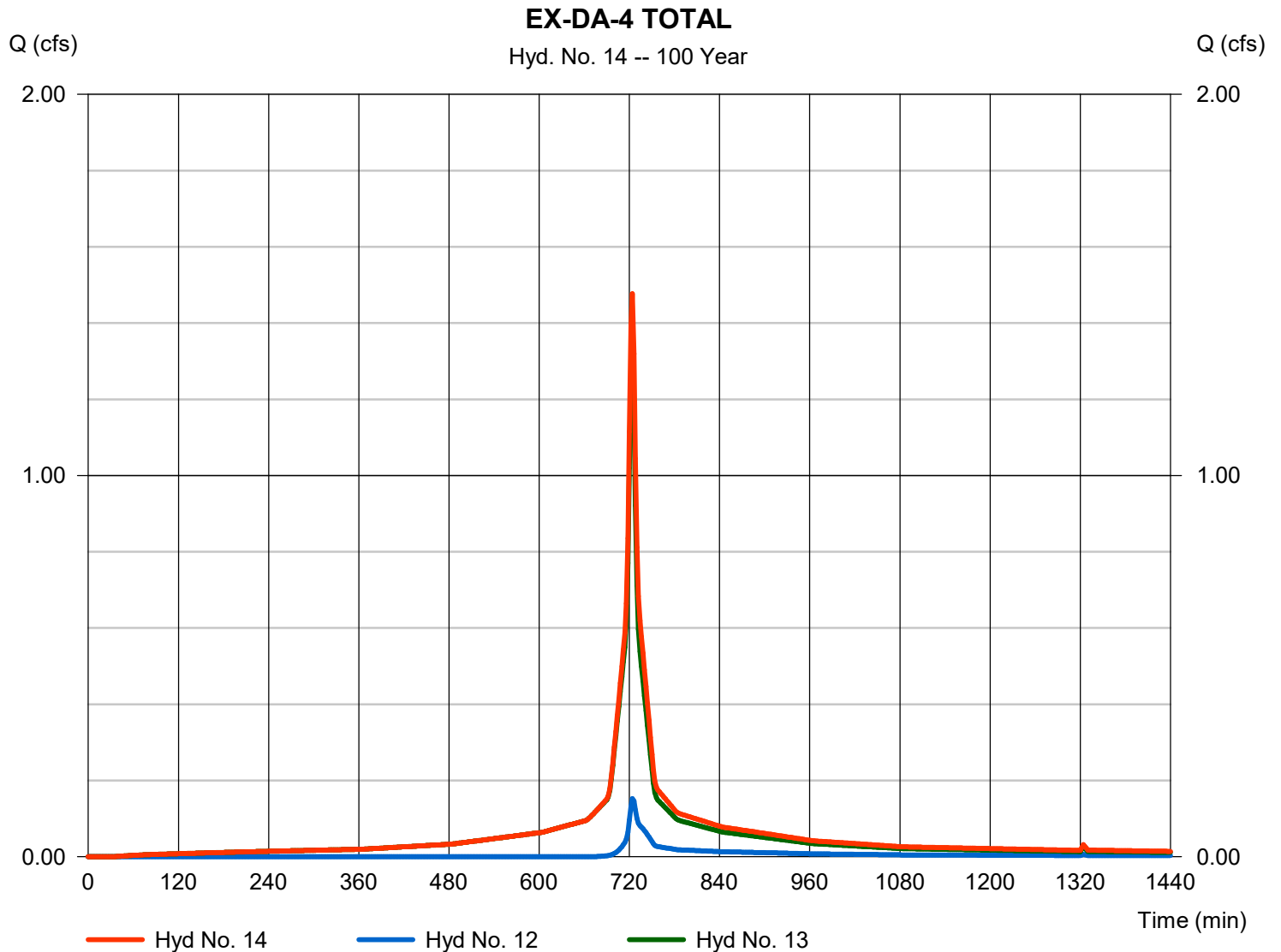
Friday, 02 / 28 / 2020

Hyd. No. 14

EX-DA-4 TOTAL

Hydrograph type = Combine
 Storm frequency = 100 yrs
 Time interval = 2 min
 Inflow hyds. = 12, 13

Peak discharge = 1.477 cfs
 Time to peak = 724 min
 Hyd. volume = 5,126 cuft
 Contrib. drain. area = 0.248 ac



Hydrograph Report

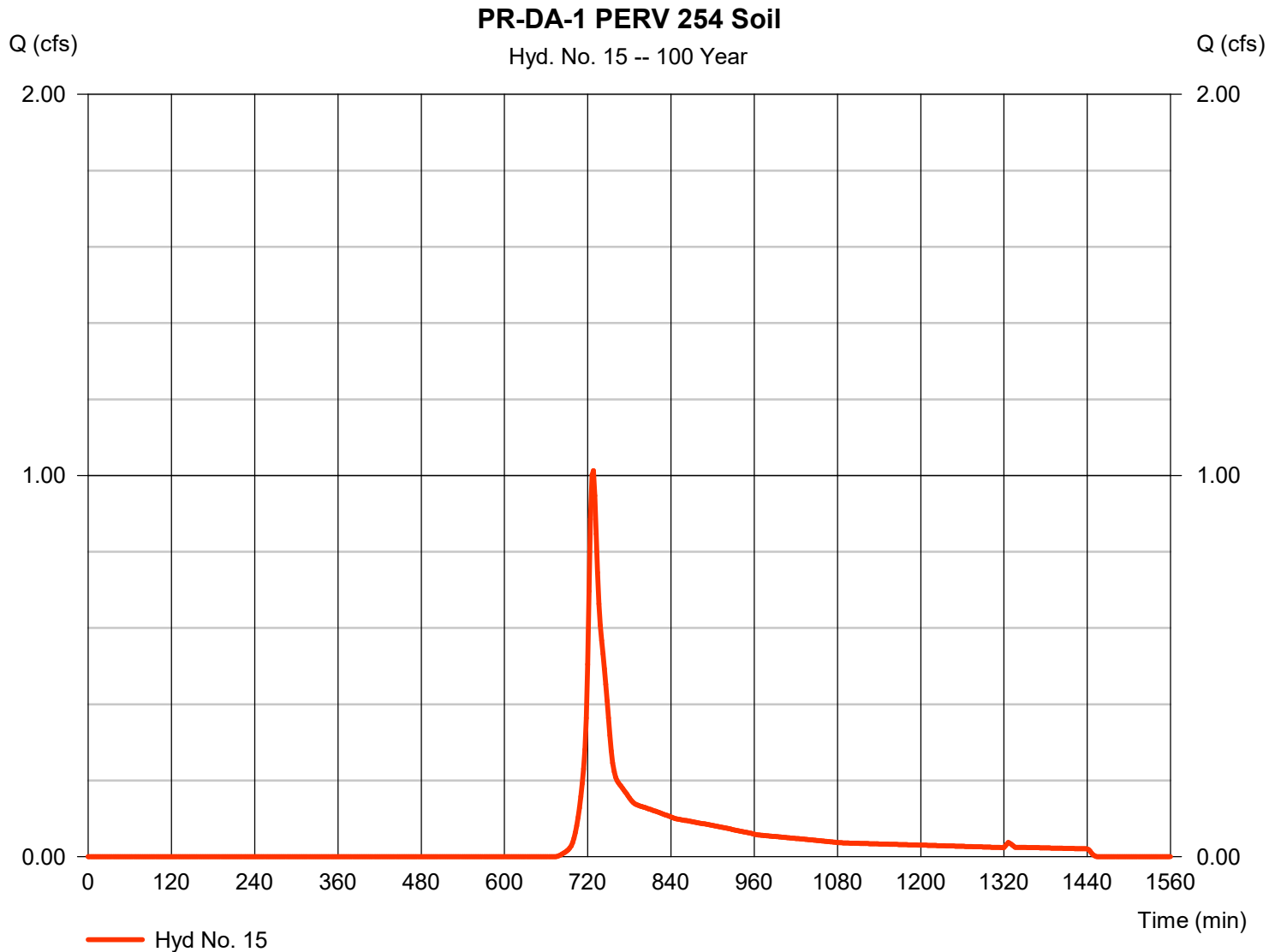
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Hyd. No. 15

PR-DA-1 PERV 254 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 1.013 cfs
Storm frequency	= 100 yrs	Time to peak	= 728 min
Time interval	= 2 min	Hyd. volume	= 3,858 cuft
Drainage area	= 0.508 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

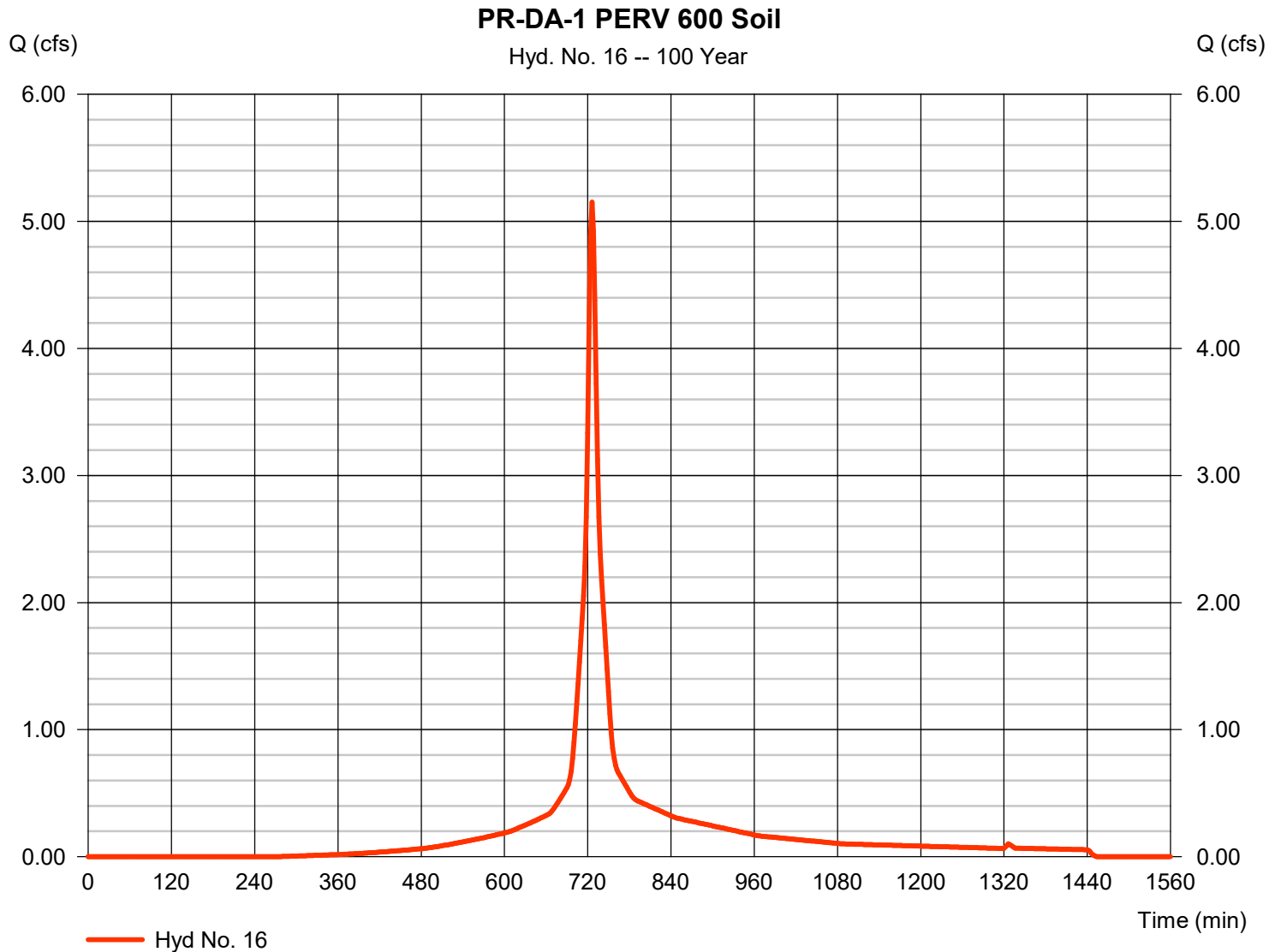
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Hyd. No. 16

PR-DA-1 PERV 600 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 5.153 cfs
Storm frequency	= 100 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 18,126 cuft
Drainage area	= 0.831 ac	Curve number	= 84
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

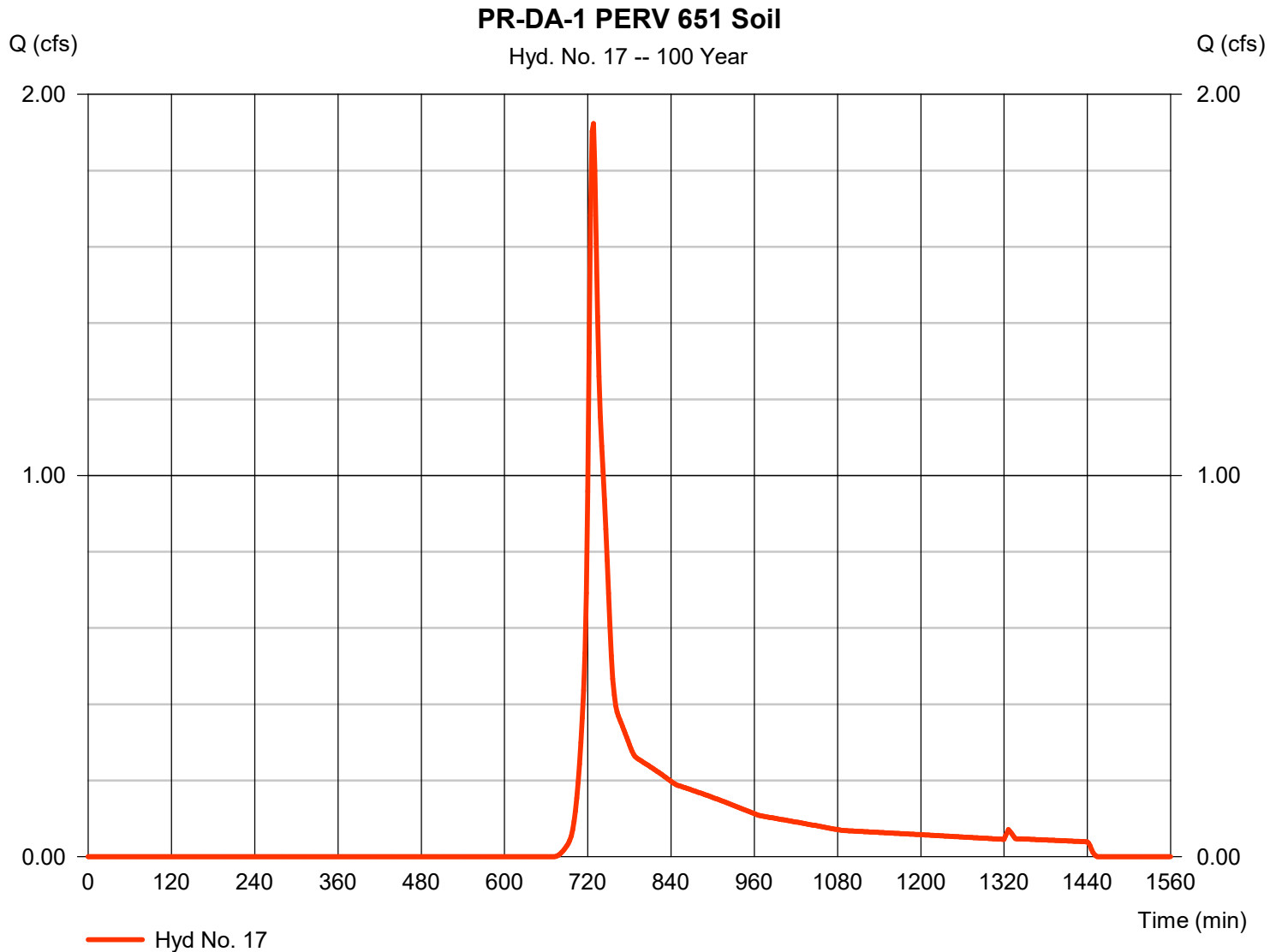
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Hyd. No. 17

PR-DA-1 PERV 651 Soil

Hydrograph type	= SCS Runoff	Peak discharge	= 1.924 cfs
Storm frequency	= 100 yrs	Time to peak	= 728 min
Time interval	= 2 min	Hyd. volume	= 7,329 cuft
Drainage area	= 0.965 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

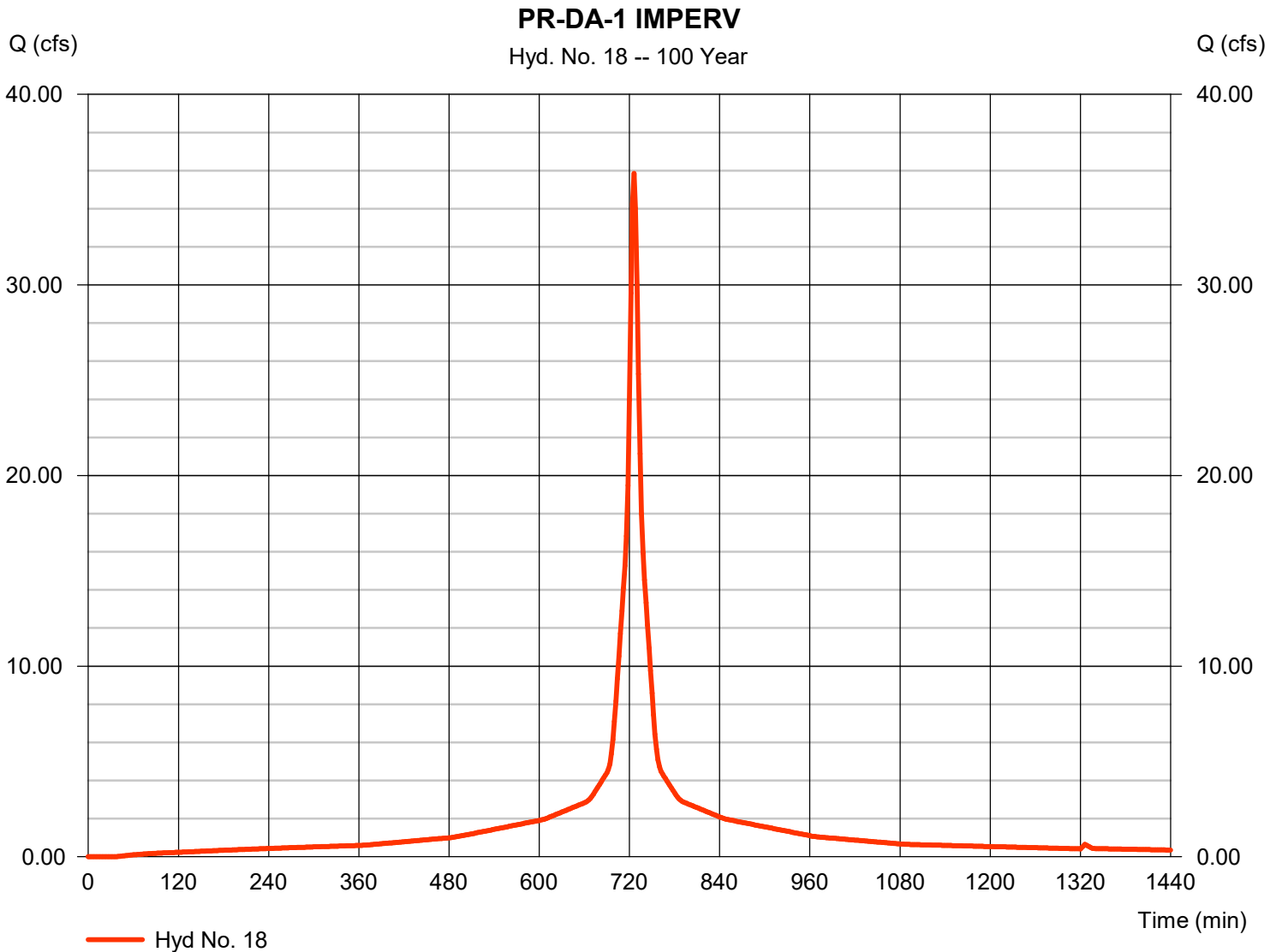
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Hyd. No. 18

PR-DA-1 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 35.85 cfs
Storm frequency	= 100 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 141,554 cuft
Drainage area	= 5.084 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.10 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

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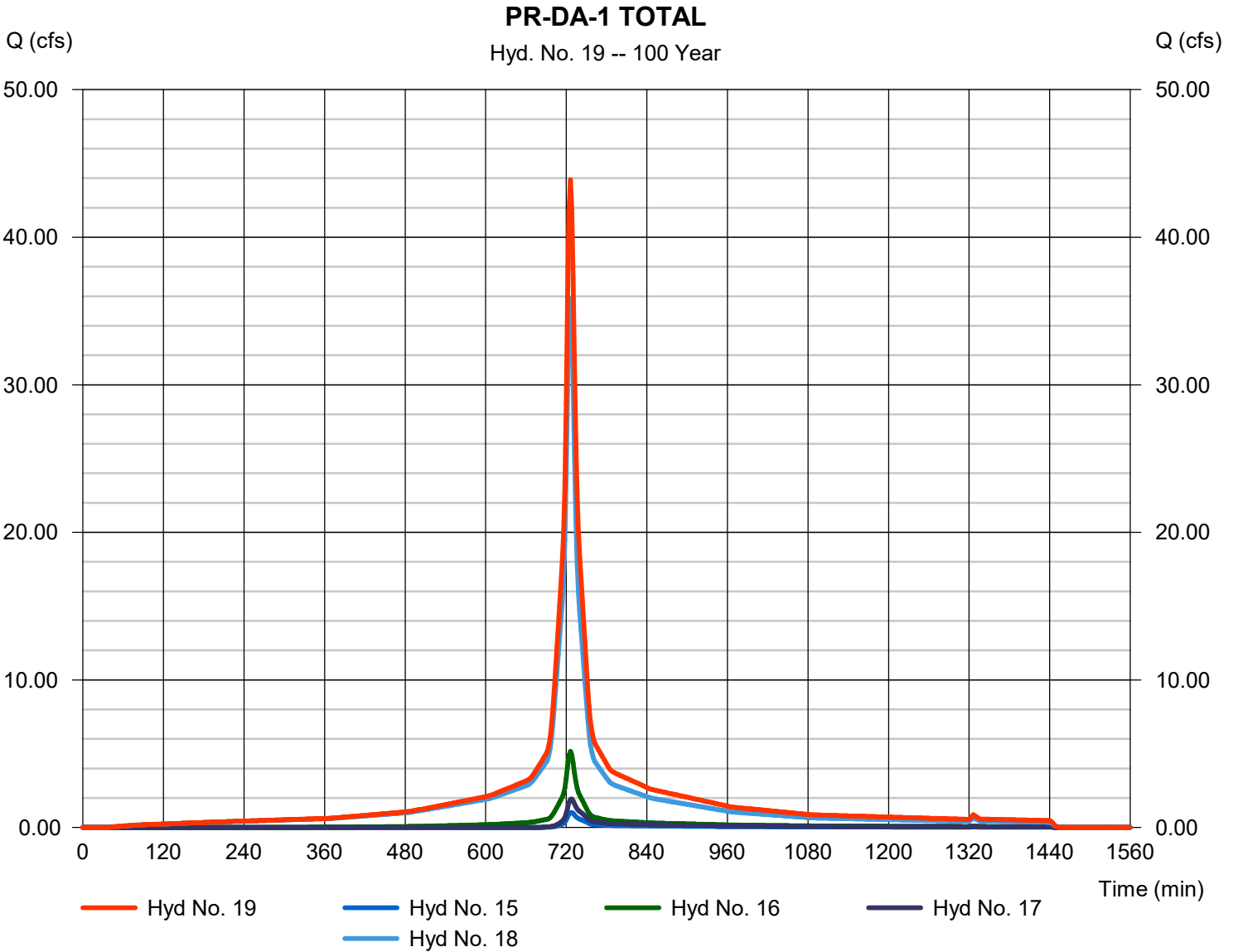
Friday, 02 / 28 / 2020

Hyd. No. 19

PR-DA-1 TOTAL

Hydrograph type = Combine
Storm frequency = 100 yrs
Time interval = 2 min
Inflow hyds. = 15, 16, 17, 18

Peak discharge = 43.90 cfs
Time to peak = 726 min
Hyd. volume = 170,867 cuft
Contrib. drain. area = 7.388 ac

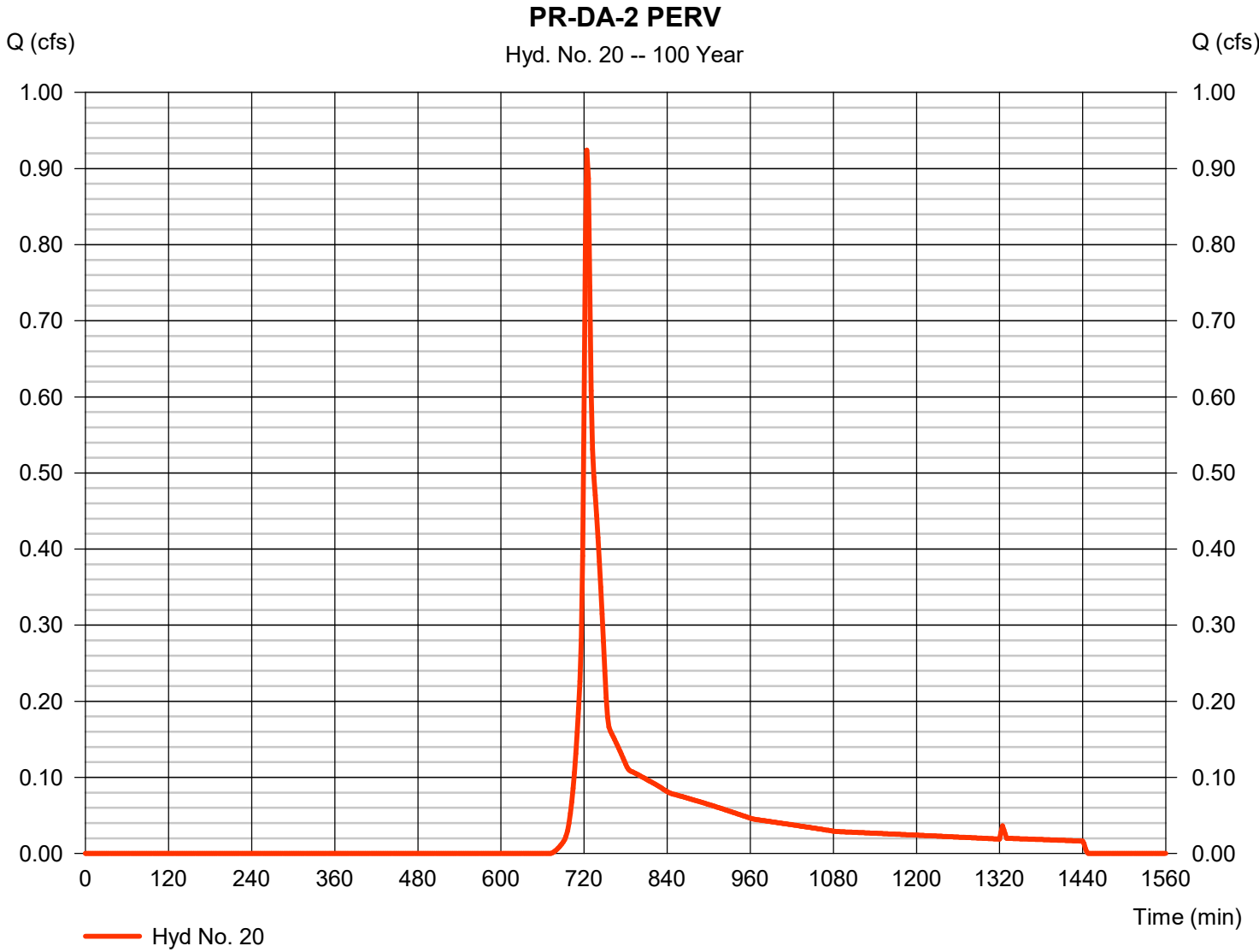


Hydrograph Report

Hyd. No. 20

PR-DA-2 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.924 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 3,069 cuft
Drainage area	= 0.431 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.40 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

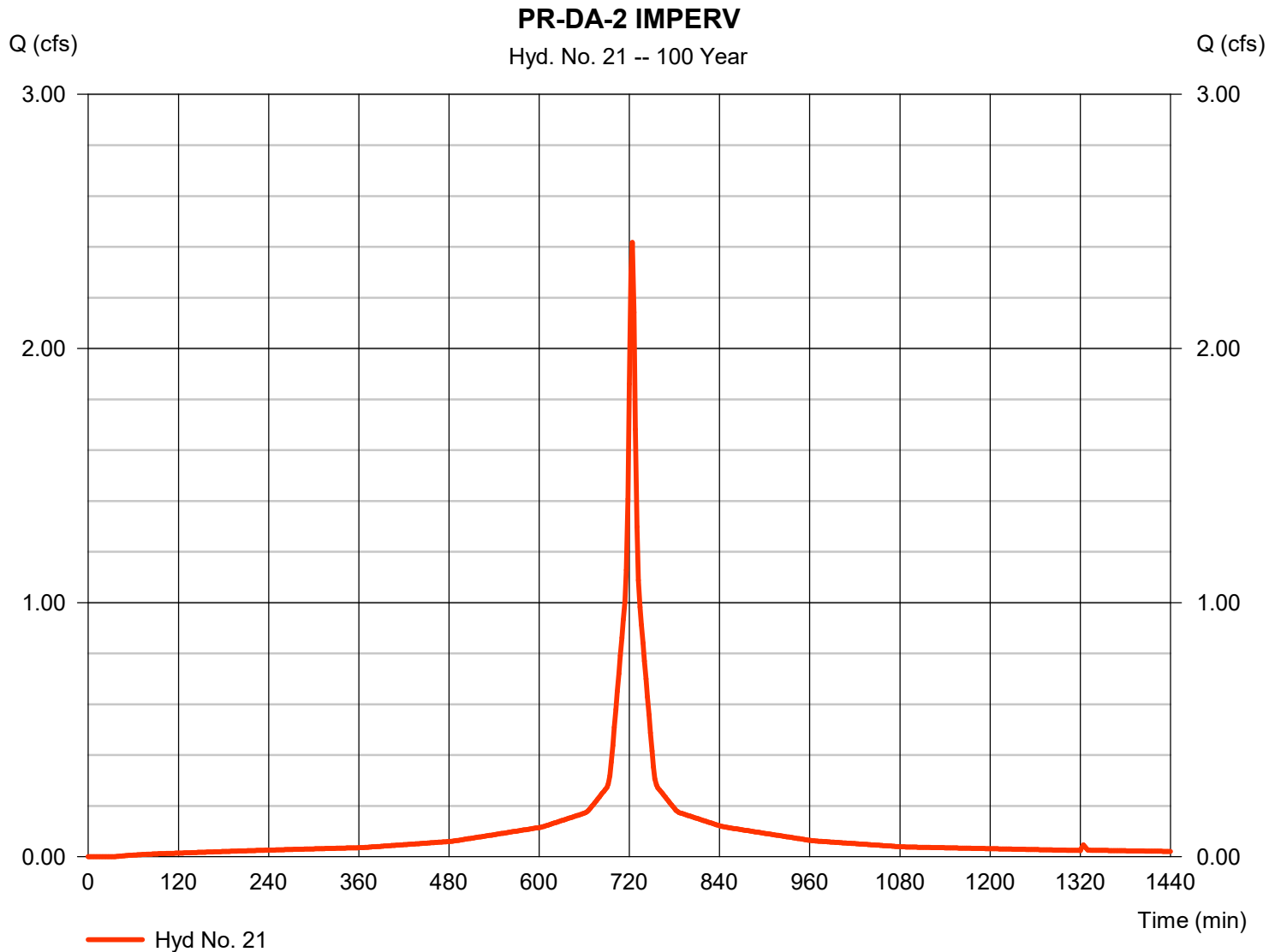
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Hyd. No. 21

PR-DA-2 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 2.417 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 8,431 cuft
Drainage area	= 0.323 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.40 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

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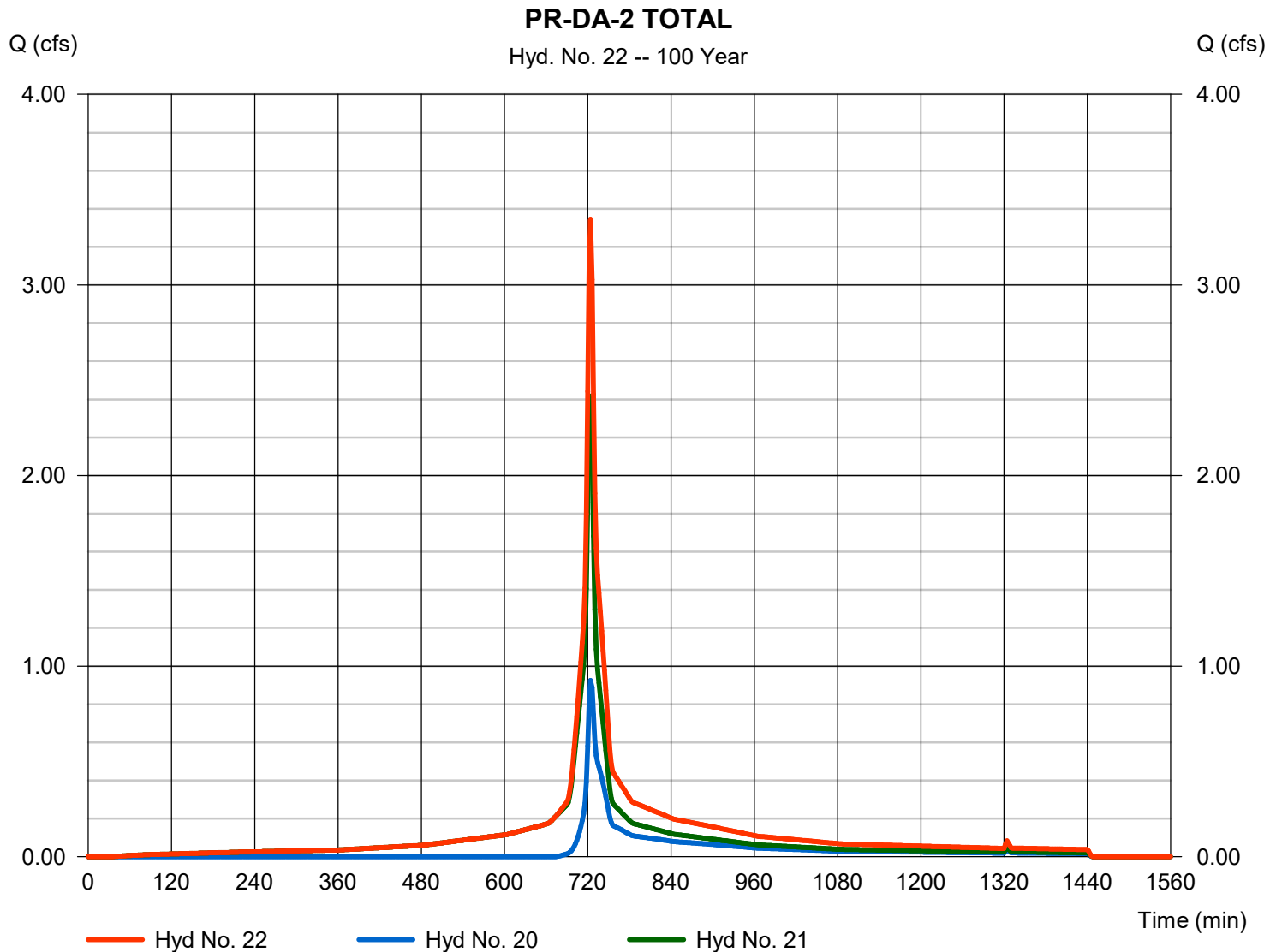
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Hyd. No. 22

PR-DA-2 TOTAL

Hydrograph type = Combine
 Storm frequency = 100 yrs
 Time interval = 2 min
 Inflow hyds. = 20, 21

Peak discharge = 3.342 cfs
 Time to peak = 724 min
 Hyd. volume = 11,500 cuft
 Contrib. drain. area = 0.754 ac

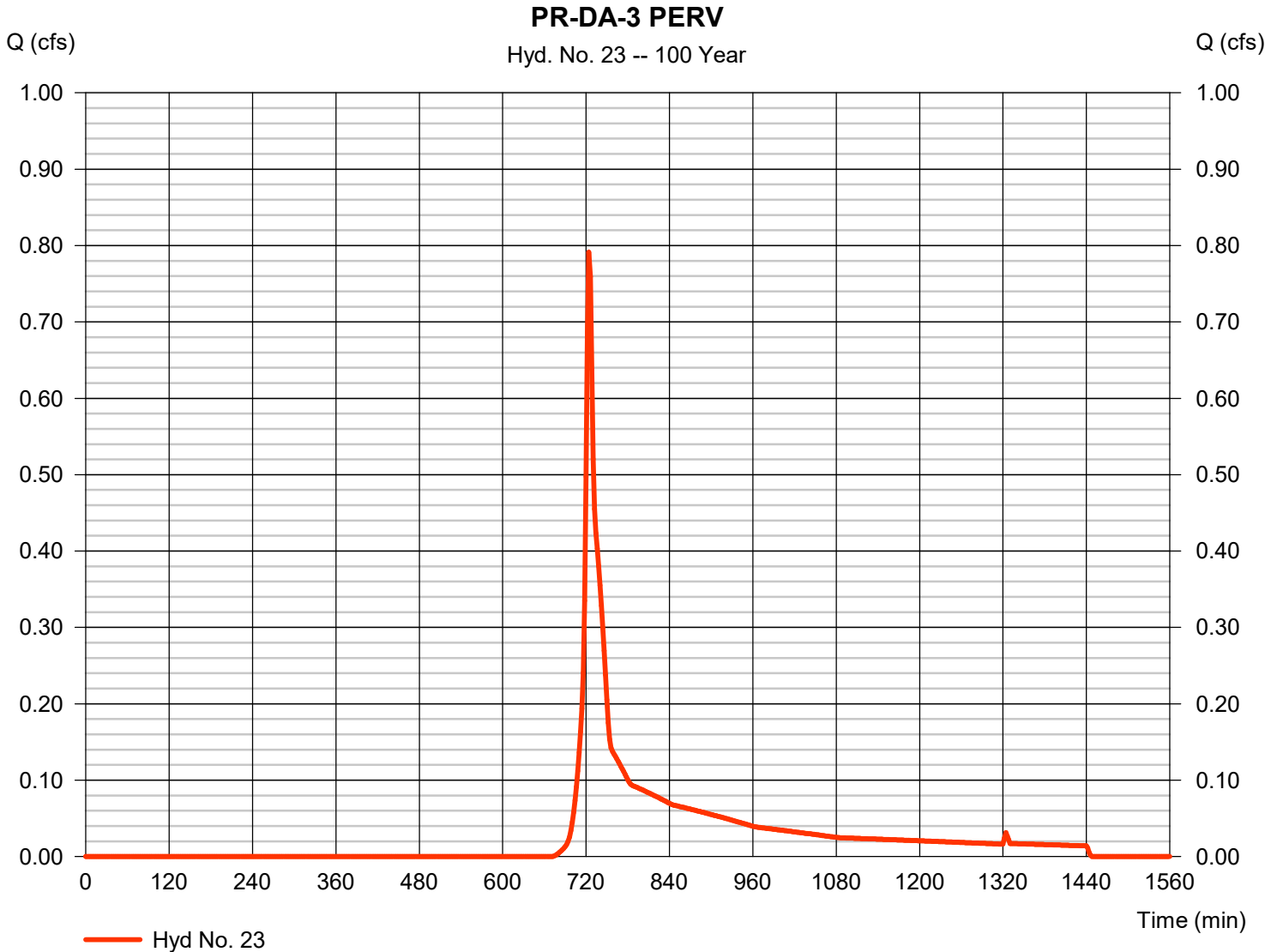


Hydrograph Report

Hyd. No. 23

PR-DA-3 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.791 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 2,627 cuft
Drainage area	= 0.369 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

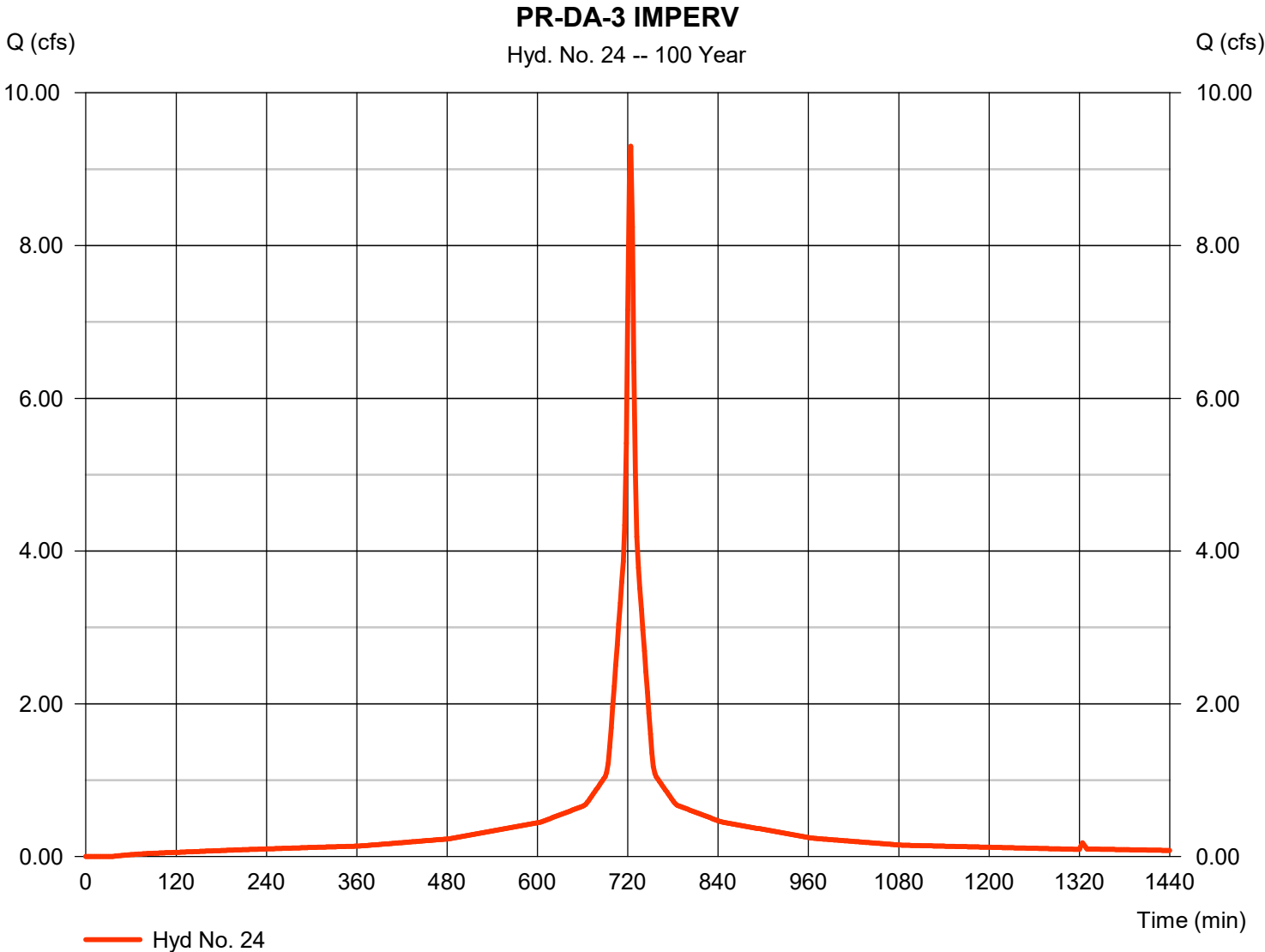


Hydrograph Report

Hyd. No. 24

PR-DA-3 IMPERV

Hydrograph type	= SCS Runoff	Peak discharge	= 9.302 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 32,446 cuft
Drainage area	= 1.243 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

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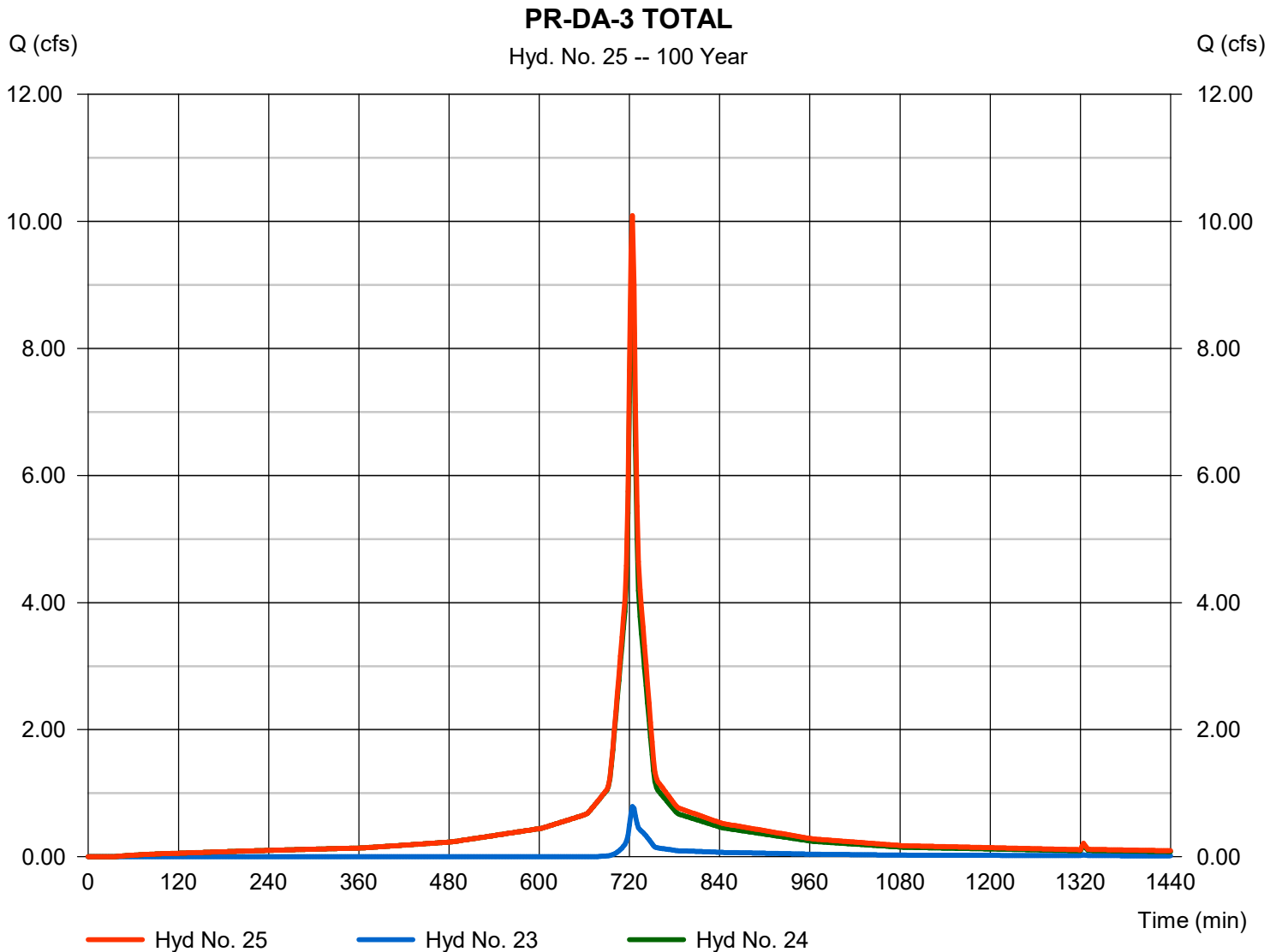
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Hyd. No. 25

PR-DA-3 TOTAL

Hydrograph type = Combine
Storm frequency = 100 yrs
Time interval = 2 min
Inflow hyds. = 23, 24

Peak discharge = 10.09 cfs
Time to peak = 724 min
Hyd. volume = 35,073 cuft
Contrib. drain. area = 1.612 ac



Hydrograph Report

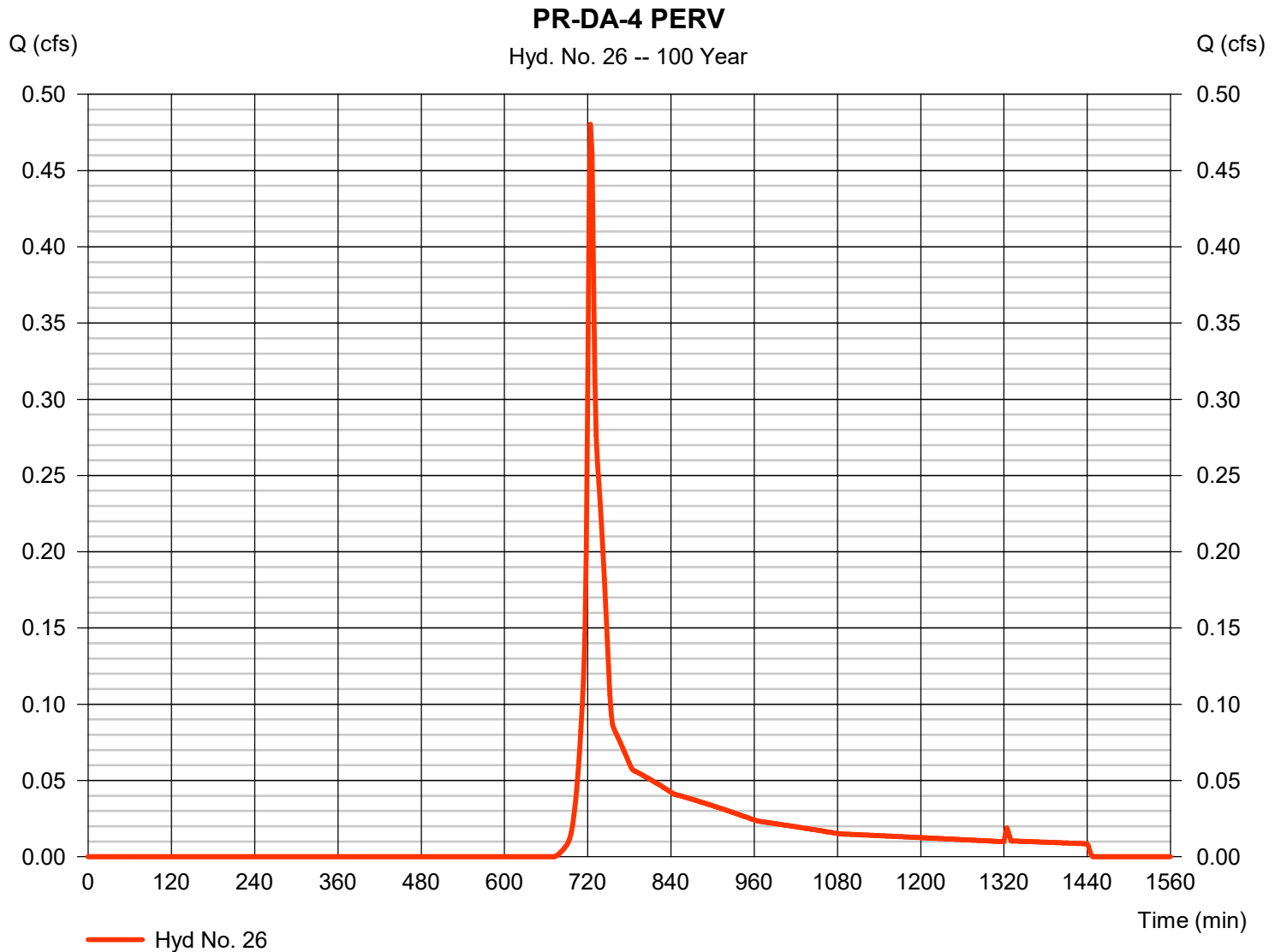
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Hyd. No. 26

PR-DA-4 PERV

Hydrograph type	= SCS Runoff	Peak discharge	= 0.480 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 1,595 cuft
Drainage area	= 0.224 ac	Curve number	= 49
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 7.91 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

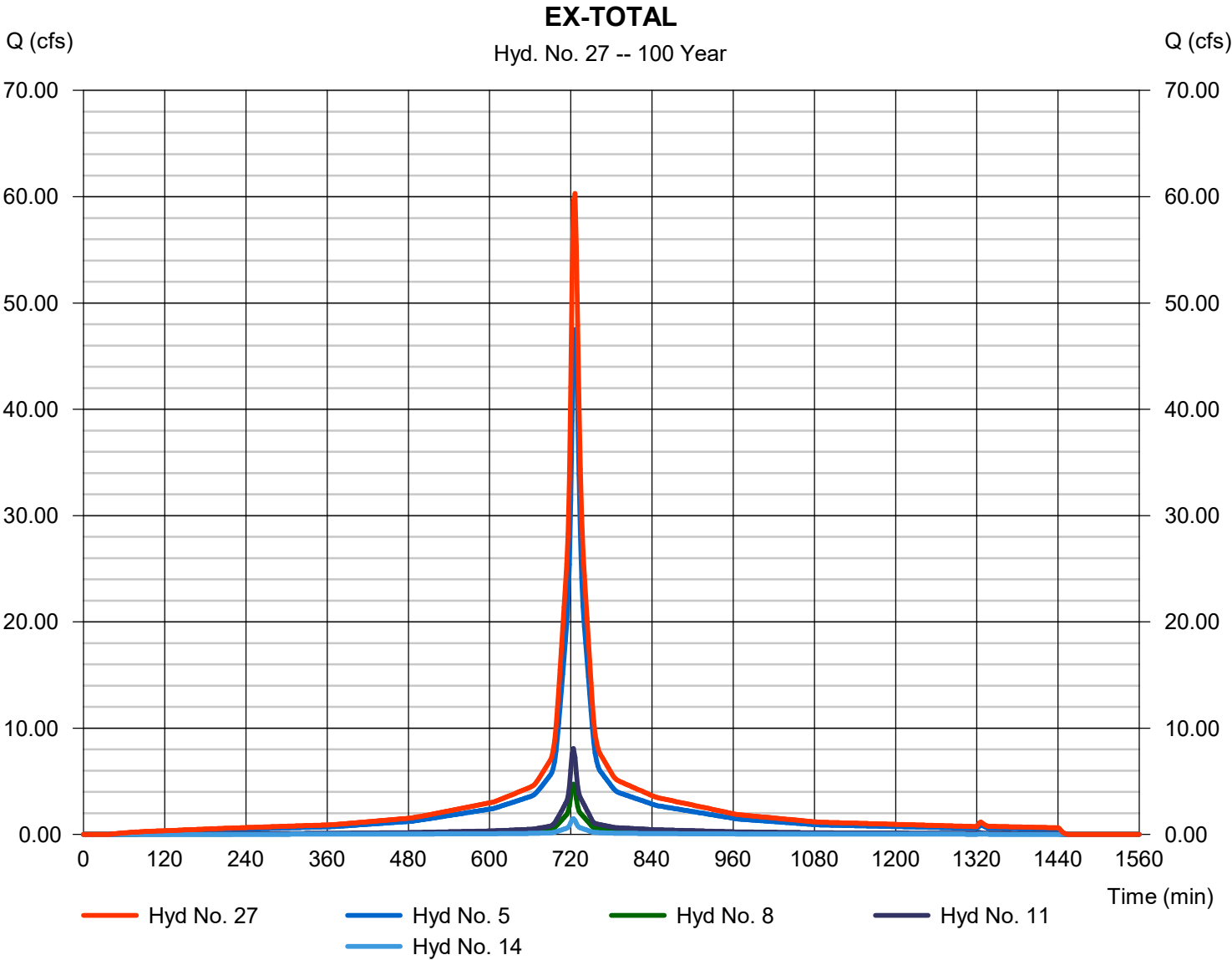
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Hyd. No. 27

EX-TOTAL

Hydrograph type	= Combine	Peak discharge	= 60.31 cfs
Storm frequency	= 100 yrs	Time to peak	= 726 min
Time interval	= 2 min	Hyd. volume	= 235,462 cuft
Inflow hyds.	= 5, 8, 11, 14	Contrib. drain. area	= 0.000 ac



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

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Hyd. No. 28

PR-TOTAL

Hydrograph type = Combine
Storm frequency = 100 yrs
Time interval = 2 min
Inflow hyds. = 19, 22, 25, 26

Peak discharge = 56.39 cfs
Time to peak = 726 min
Hyd. volume = 219,035 cuft
Contrib. drain. area = 0.224 ac

