

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2019.2

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	373.01	2	780	4,391,145	-----	-----	-----	EX A
2	SCS Runoff	70.28	2	760	663,725	-----	-----	-----	EX A1
3	SCS Runoff	35.27	2	750	272,771	-----	-----	-----	EX A2
4	SCS Runoff	200.41	2	756	1,798,914	-----	-----	-----	EX A3
5	SCS Runoff	97.18	2	784	1,318,021	-----	-----	-----	EX A4
6	Combine	283.94	2	766	3,116,936	4, 5	-----	-----	EX A3 + EX A4
7	SCS Runoff	216.64	2	768	2,379,425	-----	-----	-----	EX B
8	SCS Runoff	236.53	2	746	1,795,598	-----	-----	-----	A1
9	SCS Runoff	33.21	2	738	208,463	-----	-----	-----	A2
10	Combine	268.36	2	746	2,004,061	8, 9	-----	-----	A1+A2
11	SCS Runoff	37.11	2	738	232,970	-----	-----	-----	A3
12	SCS Runoff	21.54	2	738	135,244	-----	-----	-----	A4
13	SCS Runoff	29.01	2	738	182,140	-----	-----	-----	A5
14	Combine	353.73	2	744	2,554,416	10, 11, 12, 13	-----	-----	A1-A5
15	SCS Runoff	36.06	2	732	195,695	-----	-----	-----	A6
16	SCS Runoff	29.76	2	732	161,526	-----	-----	-----	A7
17	Combine	65.82	2	732	357,221	15, 16	-----	-----	A6+A7
18	SCS Runoff	16.68	2	738	104,685	-----	-----	-----	A8
19	SCS Runoff	64.46	2	730	312,039	-----	-----	-----	A9
20	Combine	481.20	2	740	3,328,362	14, 17, 18, 19	-----	-----	A1-A9
21	SCS Runoff	7.733	2	736	45,276	-----	-----	-----	A10
22	SCS Runoff	35.08	2	742	234,629	-----	-----	-----	A11
23	SCS Runoff	29.83	2	738	187,284	-----	-----	-----	A12
24	Combine	72.42	2	740	467,189	21, 22, 23	-----	-----	A10-A12
25	SCS Runoff	17.21	2	738	108,013	-----	-----	-----	A13
26	Combine	89.60	2	740	575,202	24, 25	-----	-----	A10-A13
27	SCS Runoff	30.27	2	738	190,007	-----	-----	-----	A14
28	SCS Runoff	28.51	2	730	138,017	-----	-----	-----	A15
29	Combine	144.82	2	738	903,227	26, 27, 28	-----	-----	Contributing to Basin A2
30	SCS Runoff	13.21	2	730	63,035	-----	-----	-----	A16
31	SCS Runoff	35.27	2	750	272,771	-----	-----	-----	A17
32	SCS Runoff	138.18	2	742	893,776	-----	-----	-----	A18
33	SCS Runoff	249.01	2	744	1,792,081	-----	-----	-----	ULT B
031.060_Parkside.gpw					Return Period: 50 Year			Wednesday, 07 / 15 / 2020	

Hydrograph Report

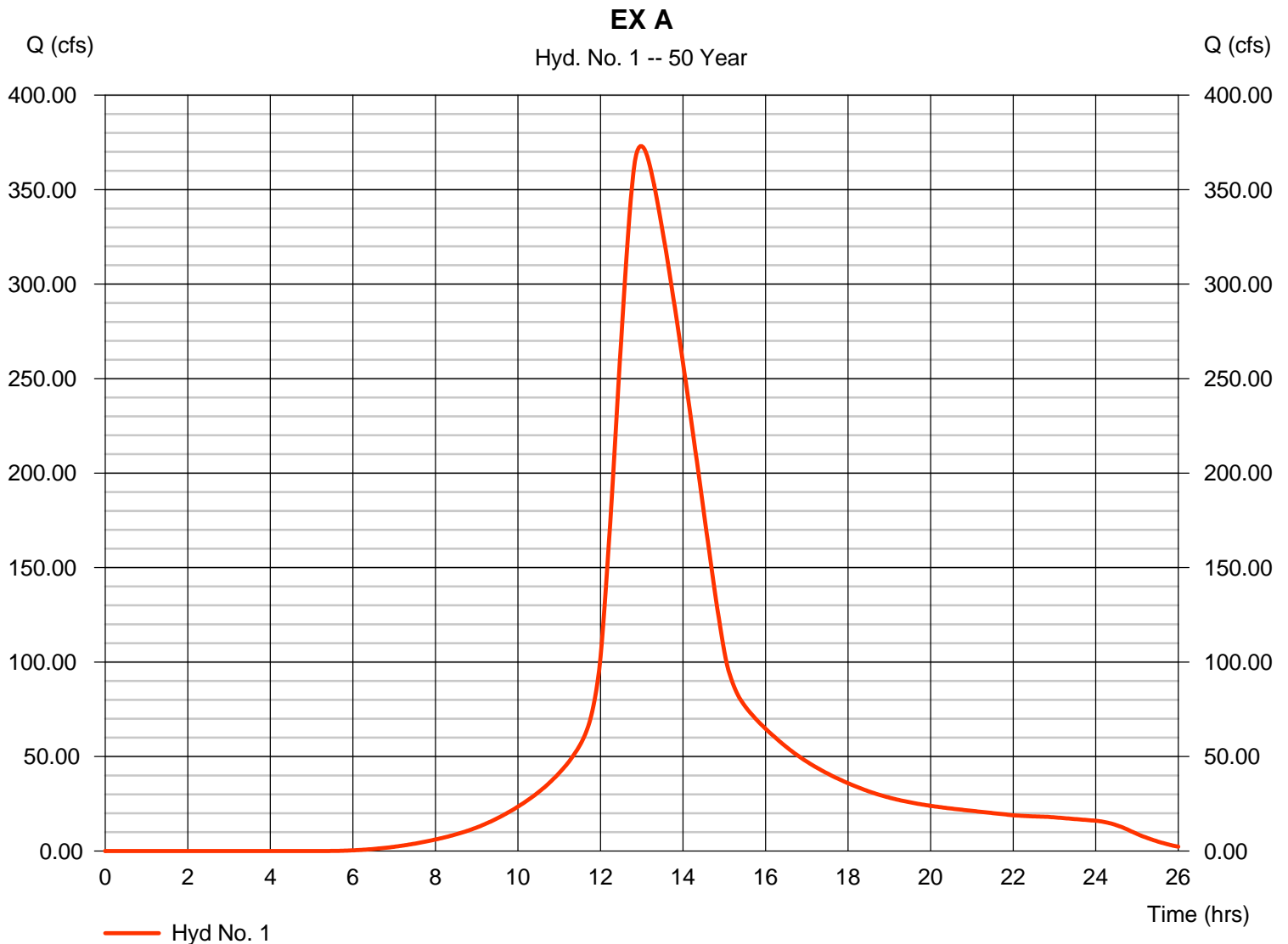
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Hyd. No. 1

EX A

Hydrograph type	= SCS Runoff	Peak discharge	= 373.01 cfs
Storm frequency	= 50 yrs	Time to peak	= 13.00 hrs
Time interval	= 2 min	Hyd. volume	= 4,391,145 cuft
Drainage area	= 167.740 ac	Curve number	= 78
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 83.60 min
Total precip.	= 9.96 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 350



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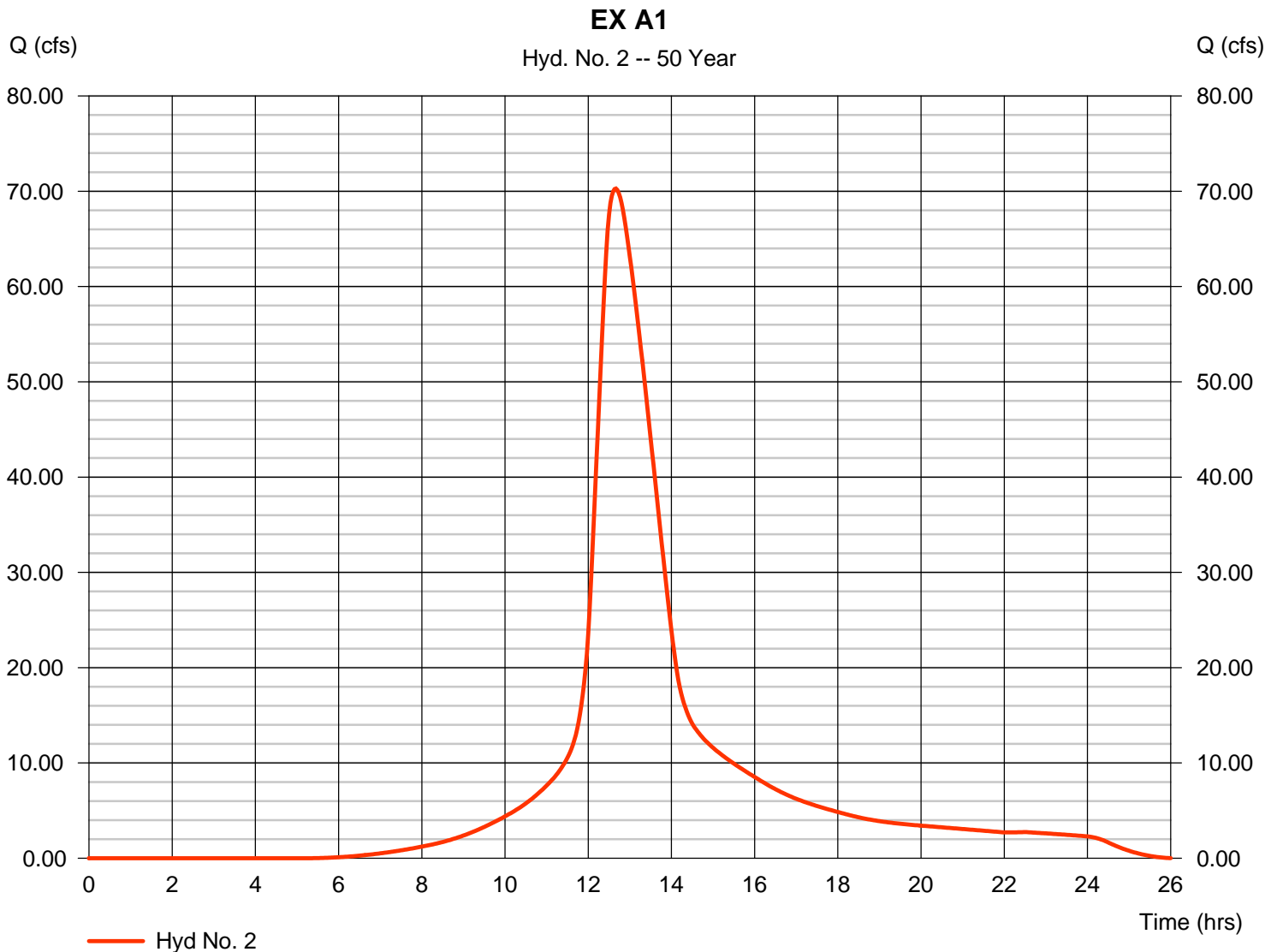
Wednesday, 07 / 15 / 2020

Hyd. No. 2

EX A1

Hydrograph type = SCS Runoff
Storm frequency = 50 yrs
Time interval = 2 min
Drainage area = 25.120 ac
Basin Slope = 0.0 %
Tc method = User
Total precip. = 9.96 in
Storm duration = 24 hrs

Peak discharge = 70.28 cfs
Time to peak = 12.67 hrs
Hyd. volume = 663,725 cuft
Curve number = 78
Hydraulic length = 0 ft
Time of conc. (Tc) = 49.70 min
Distribution = Type III
Shape factor = 300



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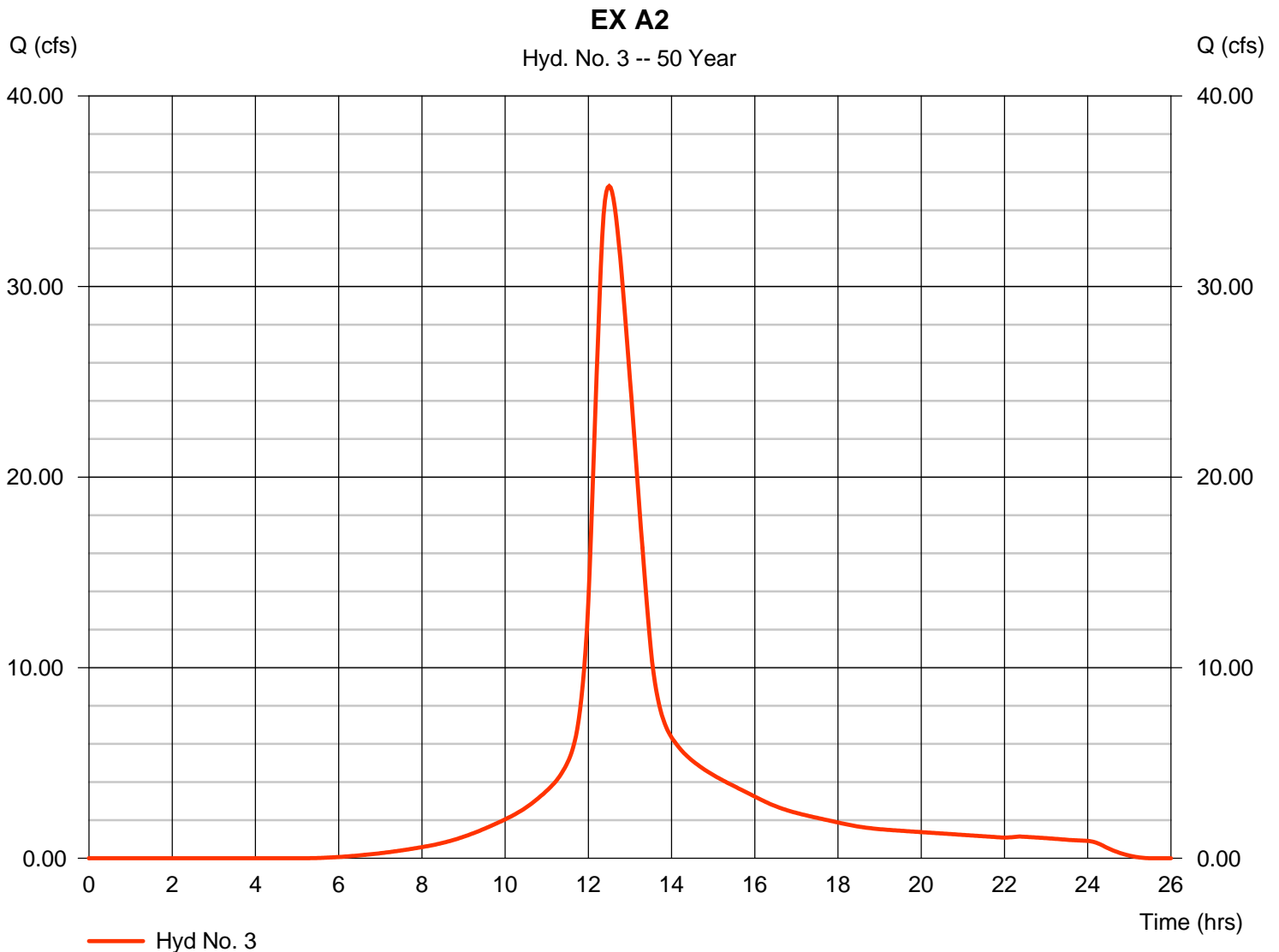
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Hyd. No. 3

EX A2

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 10.470 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 35.27 cfs
 Time to peak = 12.50 hrs
 Hyd. volume = 272,771 cuft
 Curve number = 78
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 35.30 min
 Distribution = Type III
 Shape factor = 300



Hydrograph Report

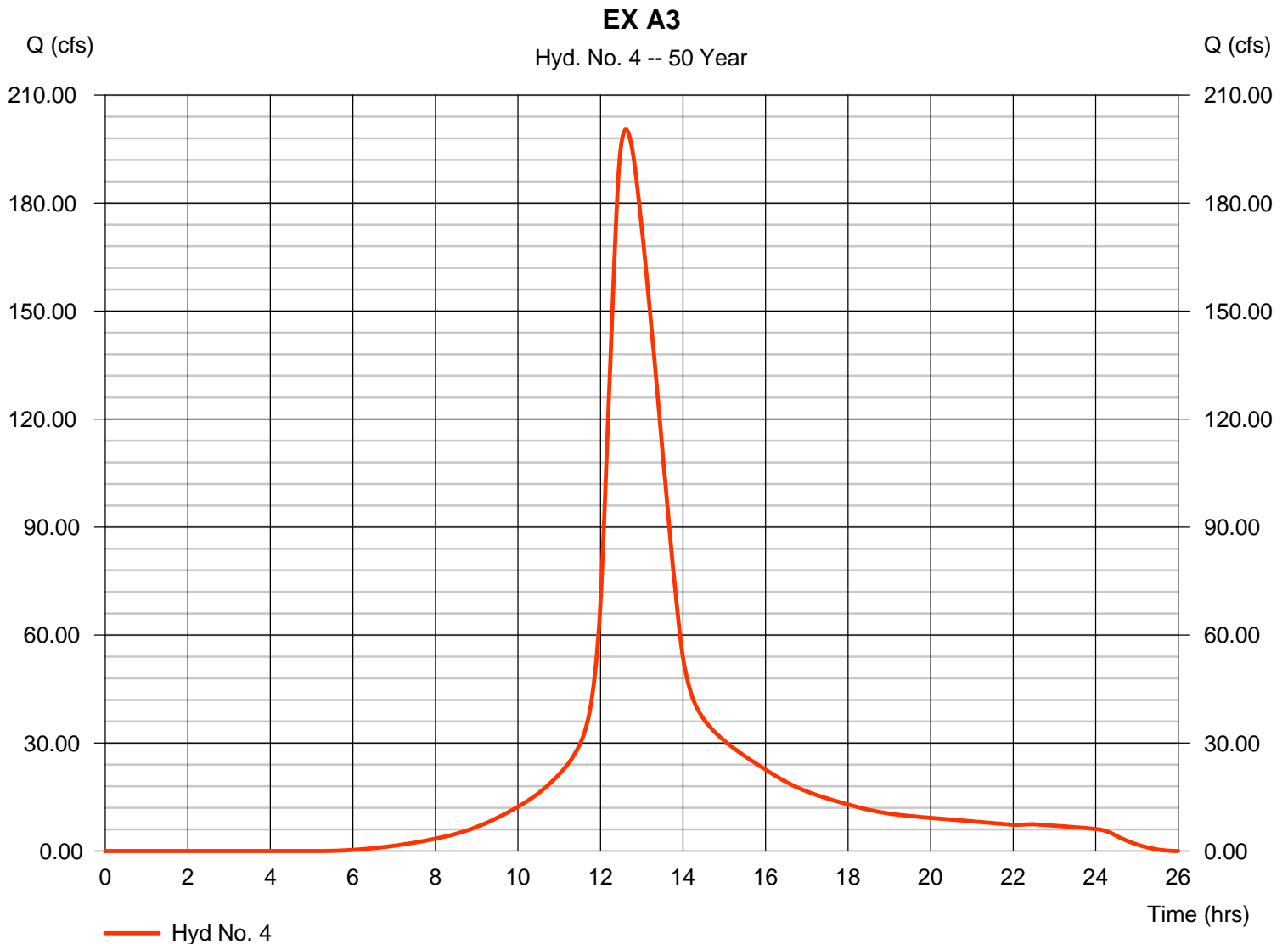
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Hyd. No. 4

EX A3

Hydrograph type	= SCS Runoff	Peak discharge	= 200.41 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.60 hrs
Time interval	= 2 min	Hyd. volume	= 1,798,914 cuft
Drainage area	= 68.840 ac	Curve number	= 78
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 45.30 min
Total precip.	= 9.96 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



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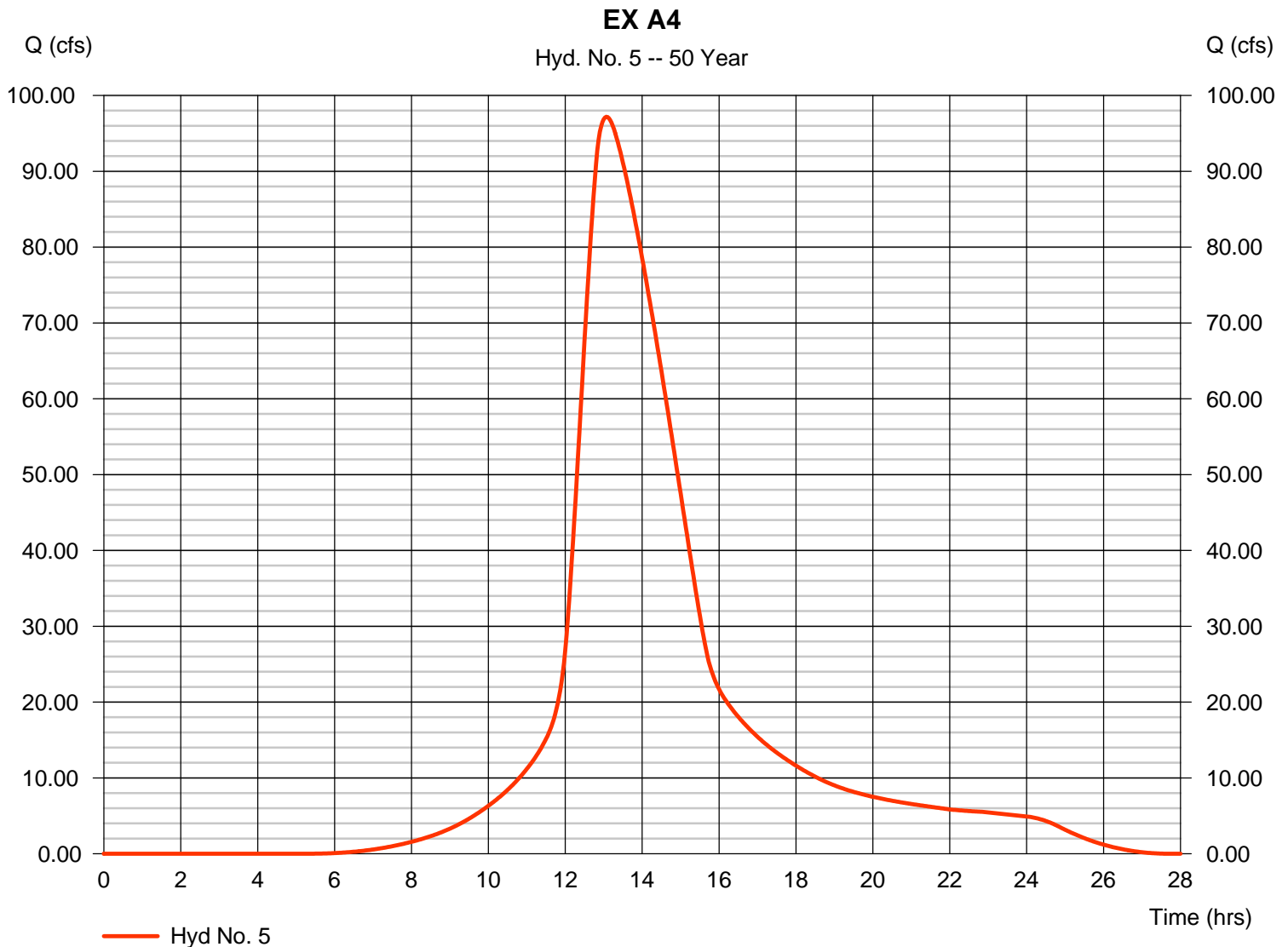
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Hyd. No. 5

EX A4

Hydrograph type	= SCS Runoff	Peak discharge	= 97.18 cfs
Storm frequency	= 50 yrs	Time to peak	= 13.07 hrs
Time interval	= 2 min	Hyd. volume	= 1,318,021 cuft
Drainage area	= 50.180 ac	Curve number	= 78
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 87.00 min
Total precip.	= 9.96 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



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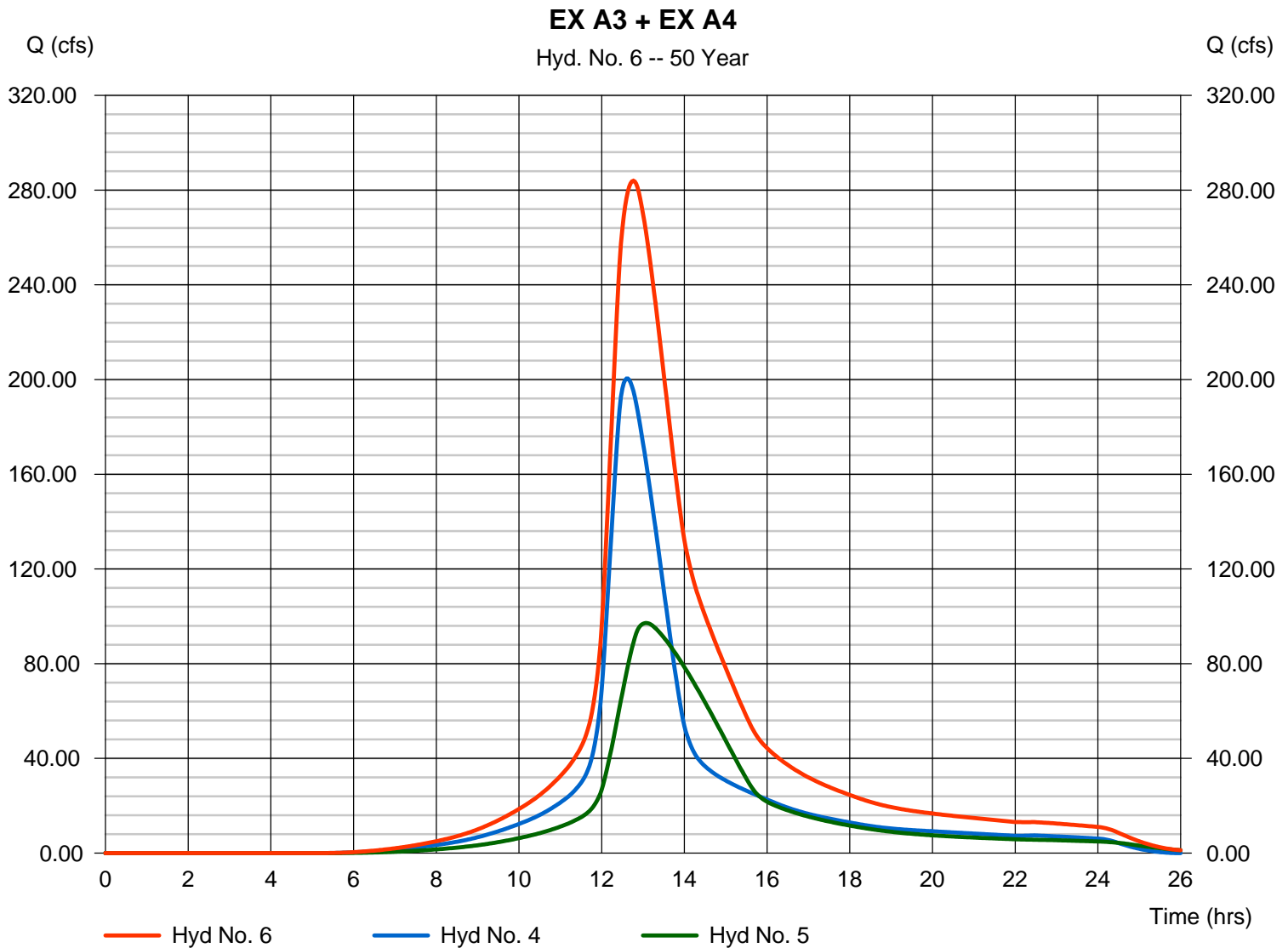
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Hyd. No. 6

EX A3 + EX A4

Hydrograph type = Combine
Storm frequency = 50 yrs
Time interval = 2 min
Inflow hyds. = 4, 5

Peak discharge = 283.94 cfs
Time to peak = 12.77 hrs
Hyd. volume = 3,116,936 cuft
Contrib. drain. area = 119.020 ac



Hydrograph Report

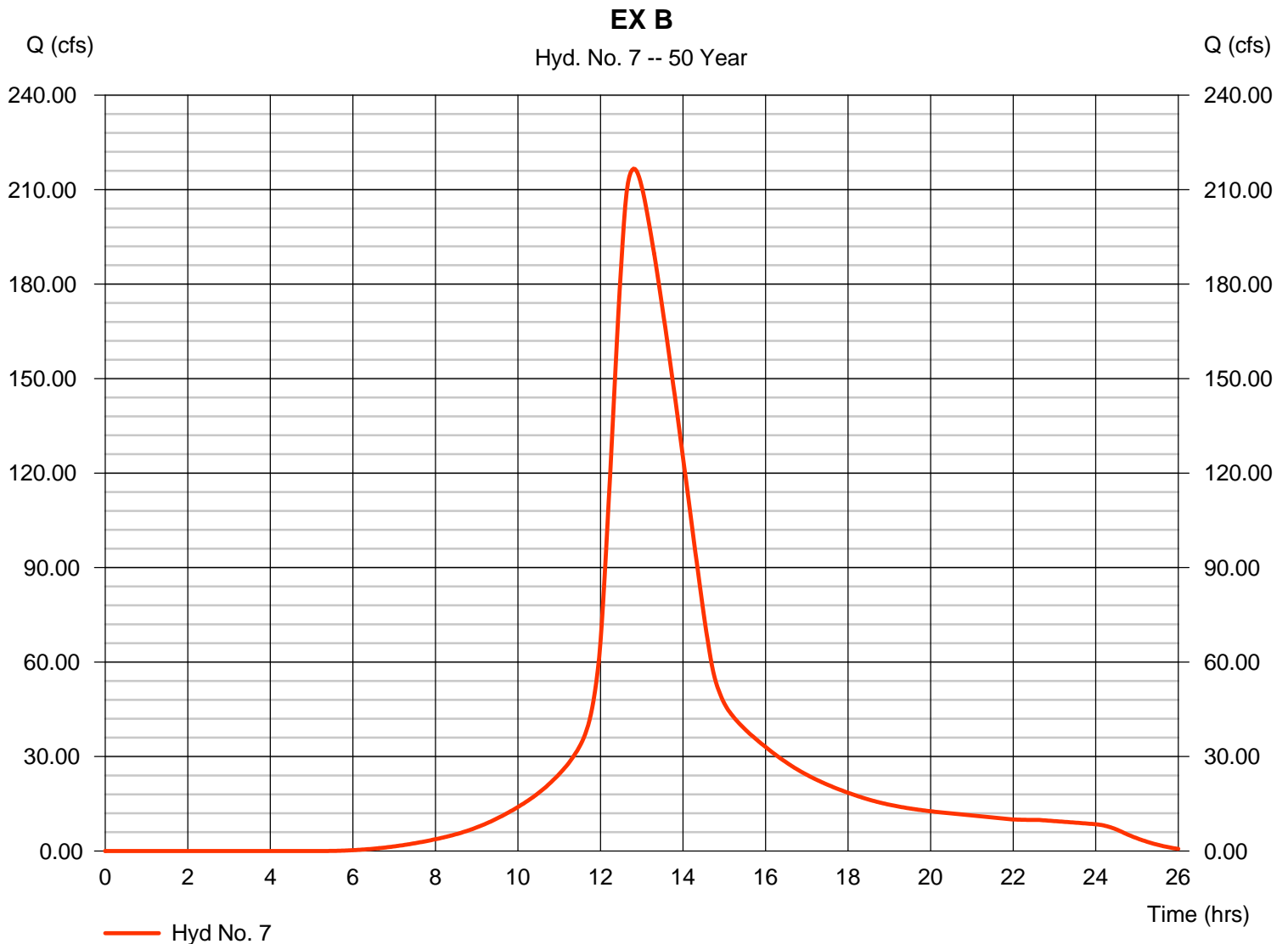
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Hyd. No. 7

EX B

Hydrograph type	= SCS Runoff	Peak discharge	= 216.64 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.80 hrs
Time interval	= 2 min	Hyd. volume	= 2,379,425 cuft
Drainage area	= 90.420 ac	Curve number	= 78
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 61.40 min
Total precip.	= 9.96 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



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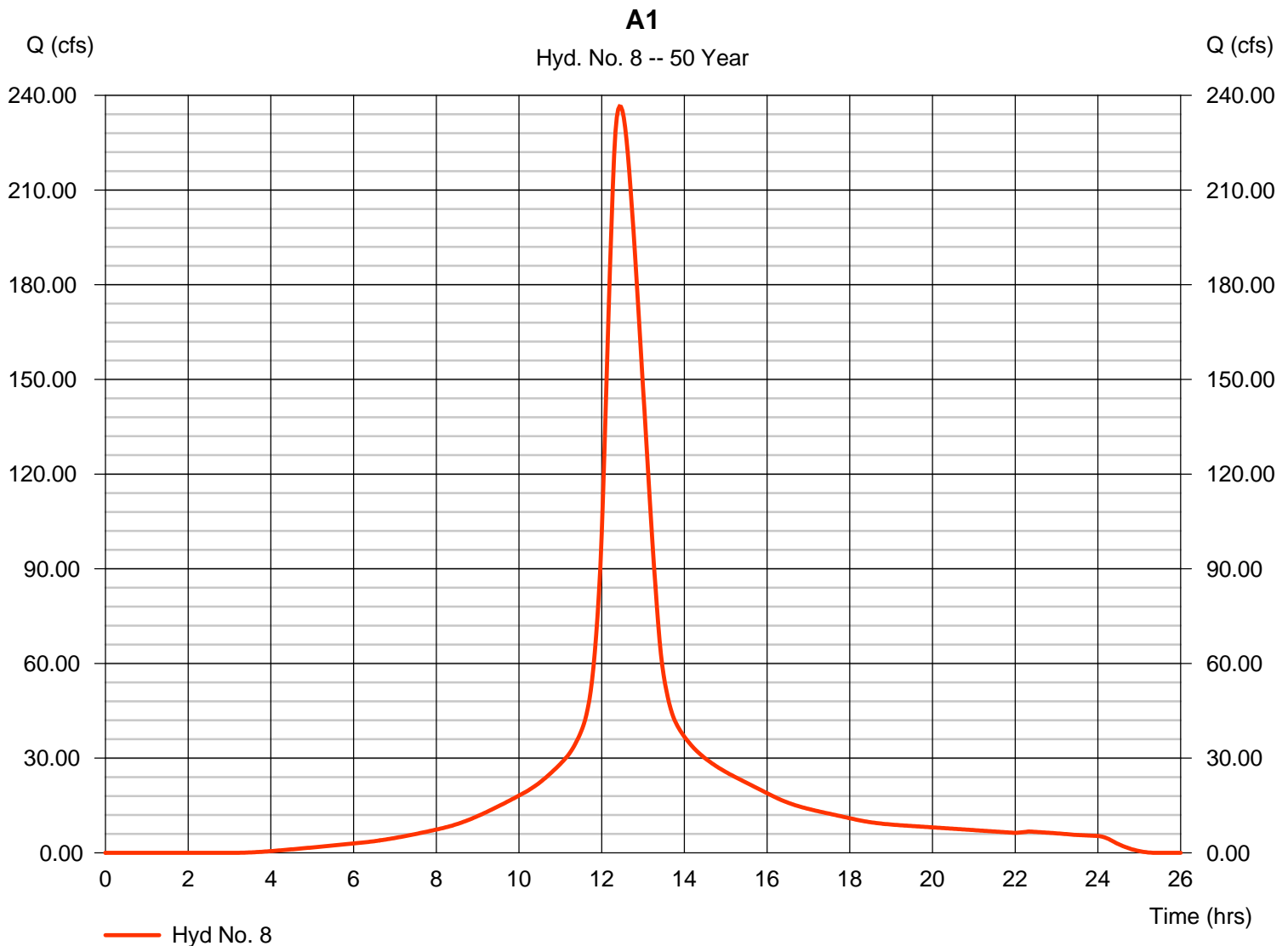
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Hyd. No. 8

A1

Hydrograph type	= SCS Runoff	Peak discharge	= 236.53 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.43 hrs
Time interval	= 2 min	Hyd. volume	= 1,795,598 cuft
Drainage area	= 59.150 ac	Curve number	= 87
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 31.20 min
Total precip.	= 9.96 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



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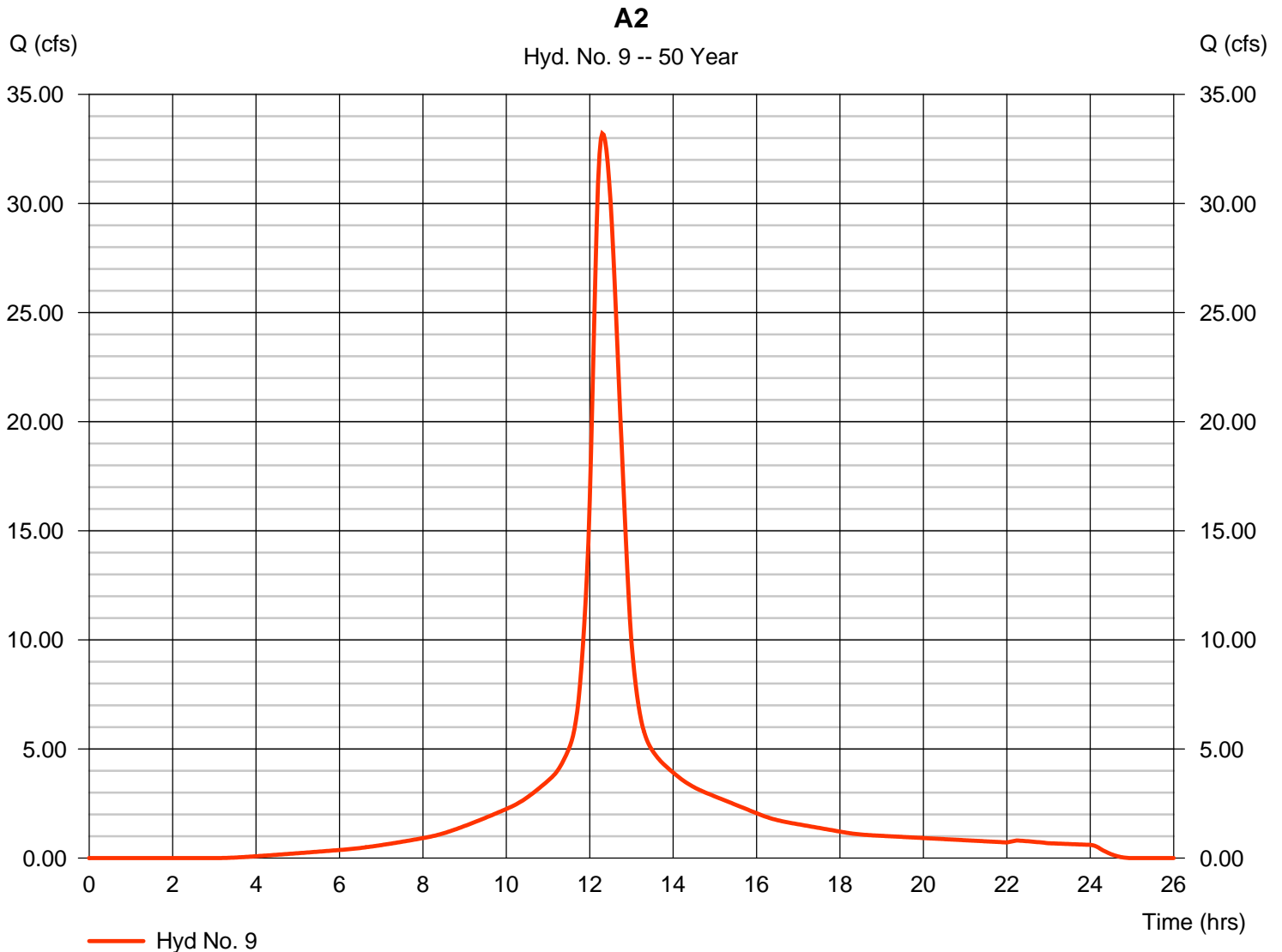
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Hyd. No. 9

A2

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 6.890 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 33.21 cfs
 Time to peak = 12.30 hrs
 Hyd. volume = 208,463 cuft
 Curve number = 87
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 21.50 min
 Distribution = Type III
 Shape factor = 300



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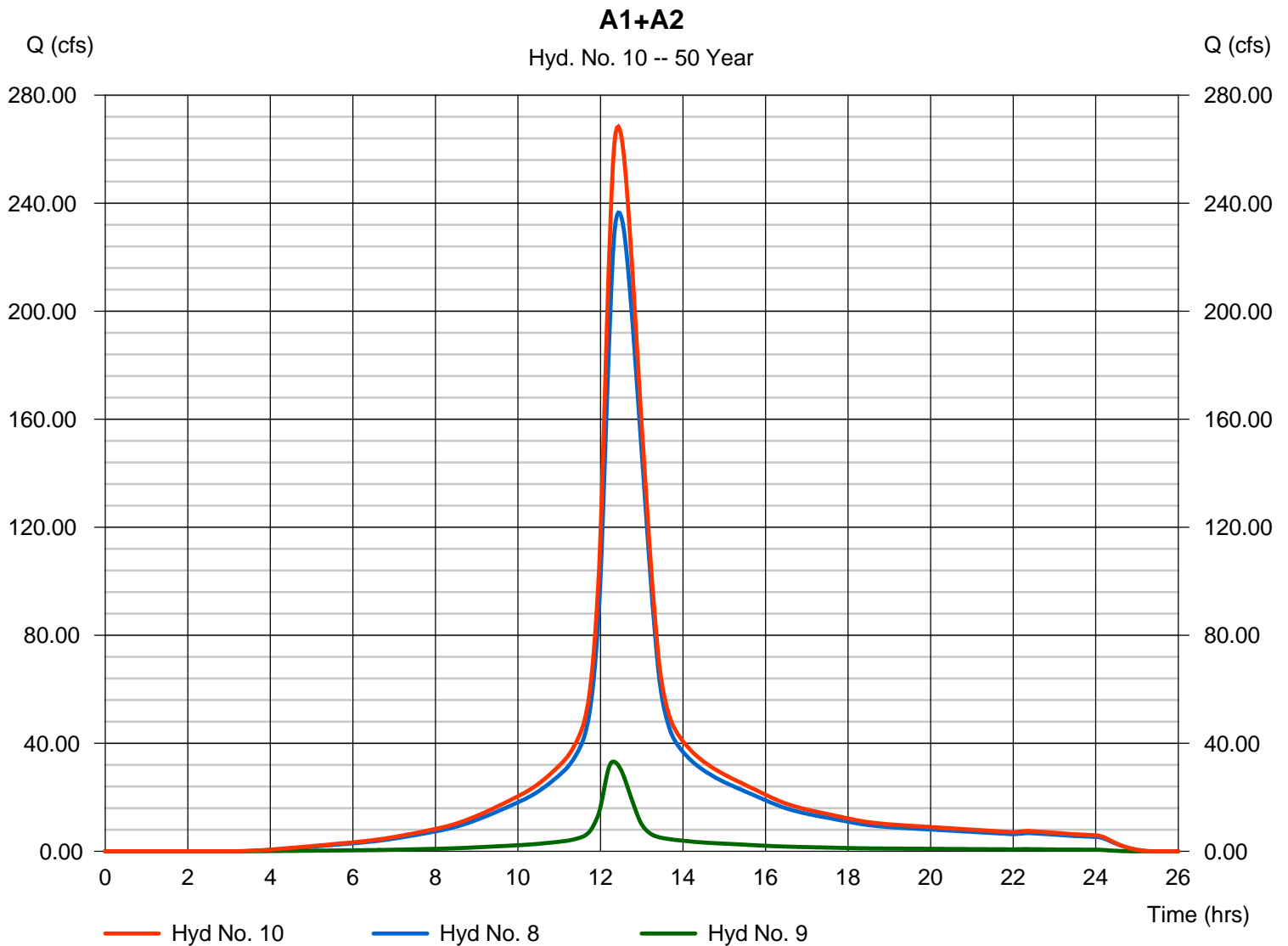
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Hyd. No. 10

A1+A2

Hydrograph type = Combine
Storm frequency = 50 yrs
Time interval = 2 min
Inflow hyds. = 8, 9

Peak discharge = 268.36 cfs
Time to peak = 12.43 hrs
Hyd. volume = 2,004,061 cuft
Contrib. drain. area = 66.040 ac



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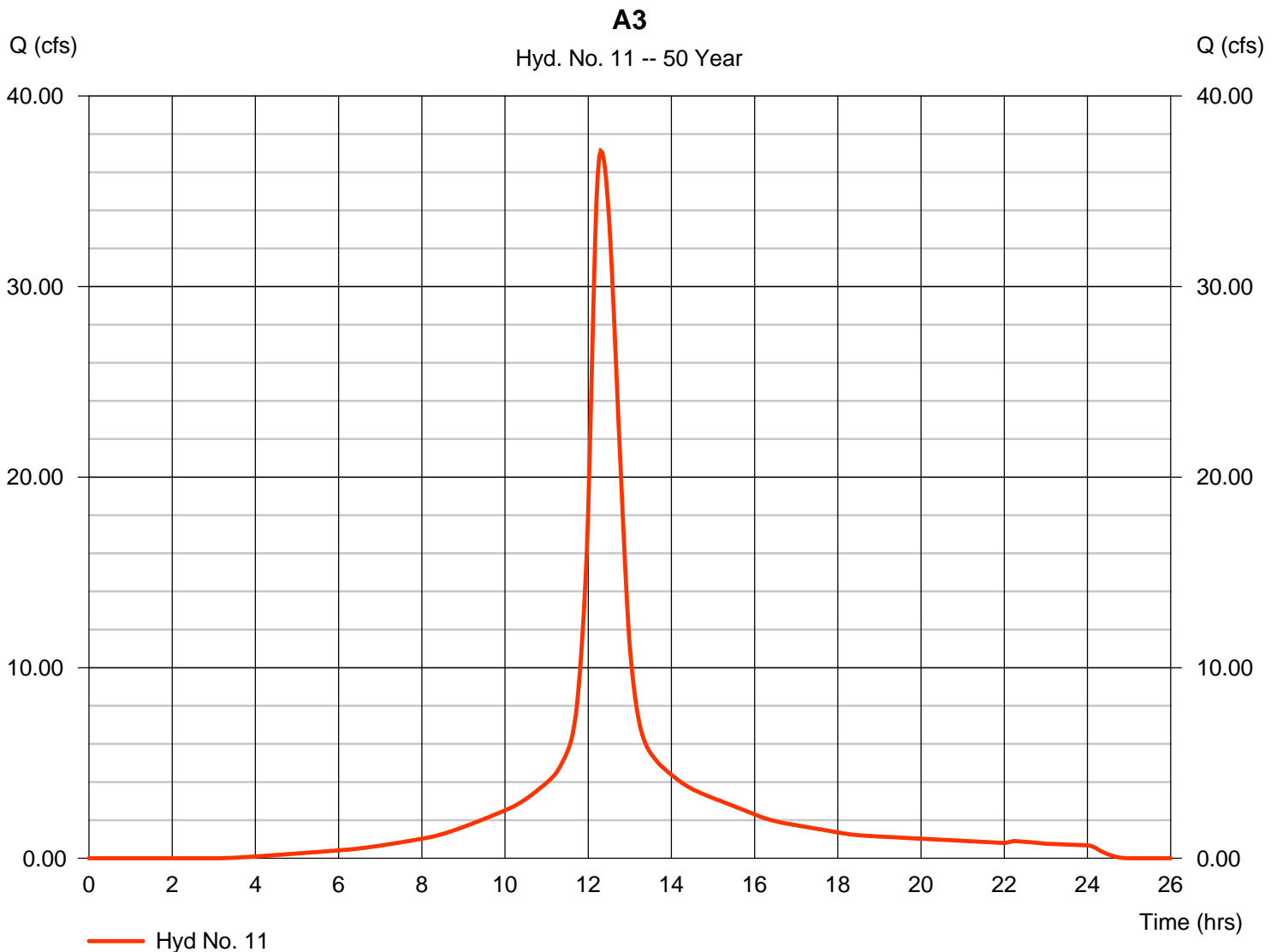
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Hyd. No. 11

A3

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 7.700 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 37.11 cfs
 Time to peak = 12.30 hrs
 Hyd. volume = 232,970 cuft
 Curve number = 87
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 21.00 min
 Distribution = Type III
 Shape factor = 300



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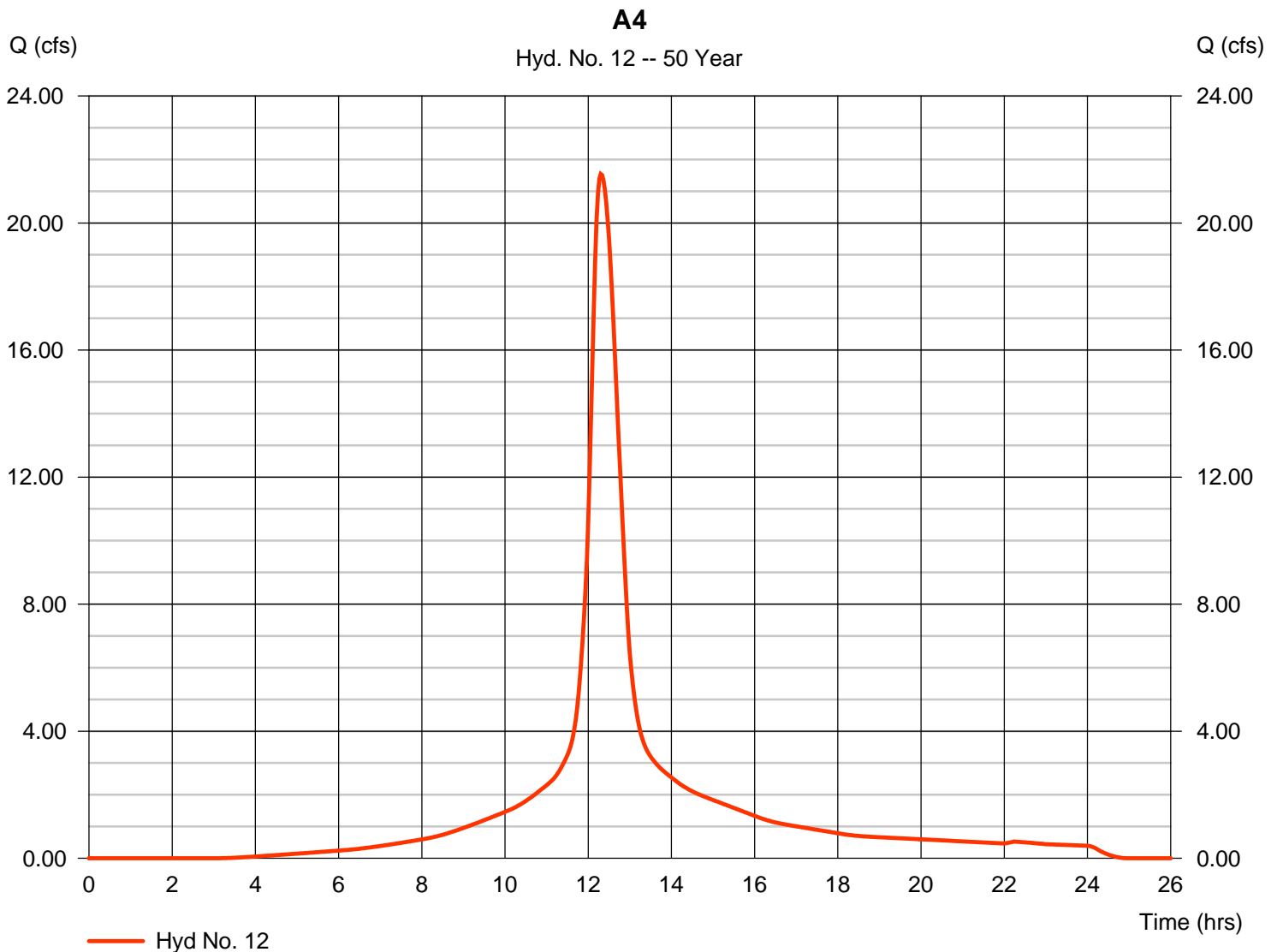
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Hyd. No. 12

A4

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 4.470 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 21.54 cfs
 Time to peak = 12.30 hrs
 Hyd. volume = 135,244 cuft
 Curve number = 87
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 21.70 min
 Distribution = Type III
 Shape factor = 300



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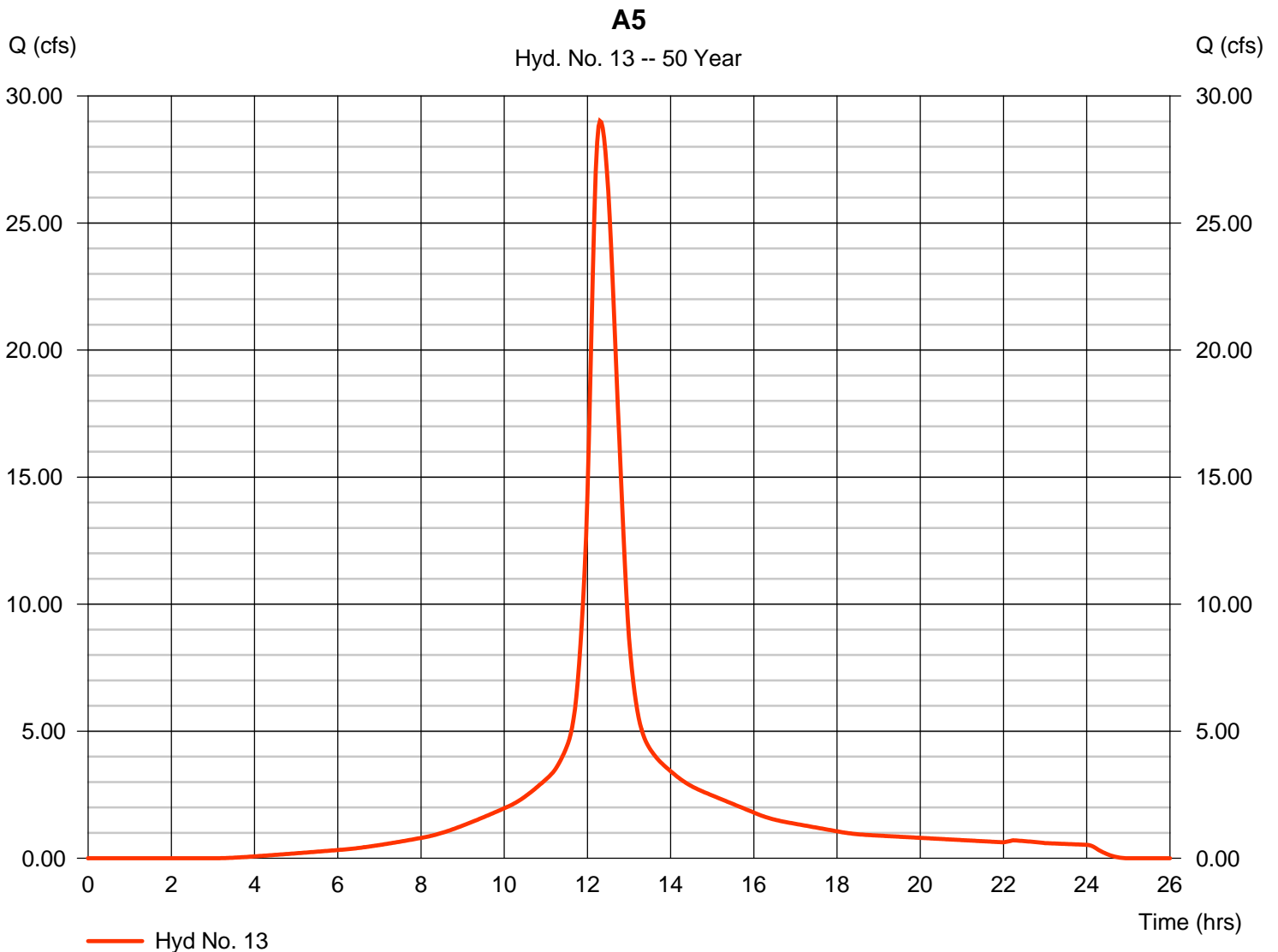
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Hyd. No. 13

A5

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 6.020 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 29.01 cfs
 Time to peak = 12.30 hrs
 Hyd. volume = 182,140 cuft
 Curve number = 87
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 20.60 min
 Distribution = Type III
 Shape factor = 300



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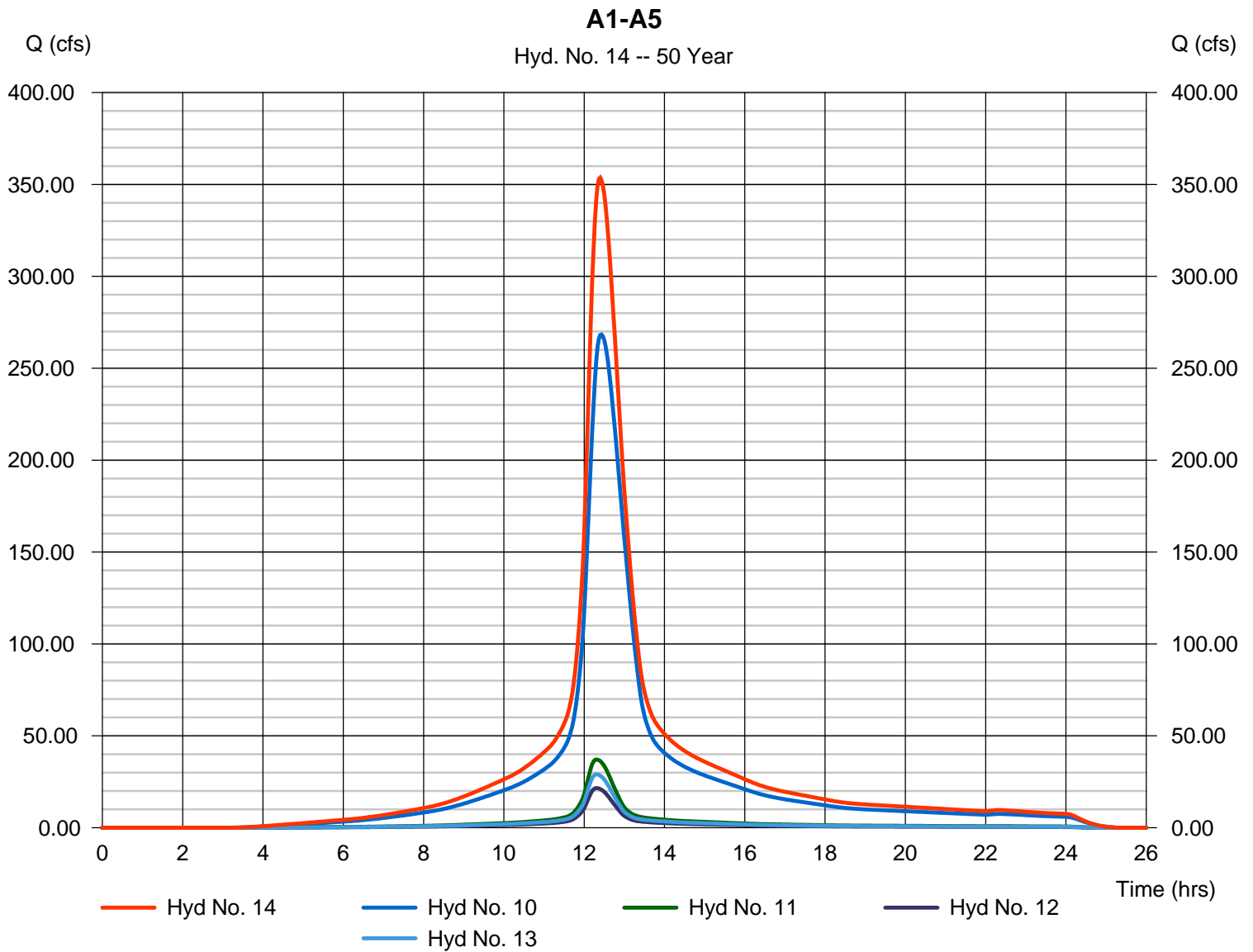
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Hyd. No. 14

A1-A5

Hydrograph type = Combine
Storm frequency = 50 yrs
Time interval = 2 min
Inflow hyds. = 10, 11, 12, 13

Peak discharge = 353.73 cfs
Time to peak = 12.40 hrs
Hyd. volume = 2,554,416 cuft
Contrib. drain. area = 18.190 ac



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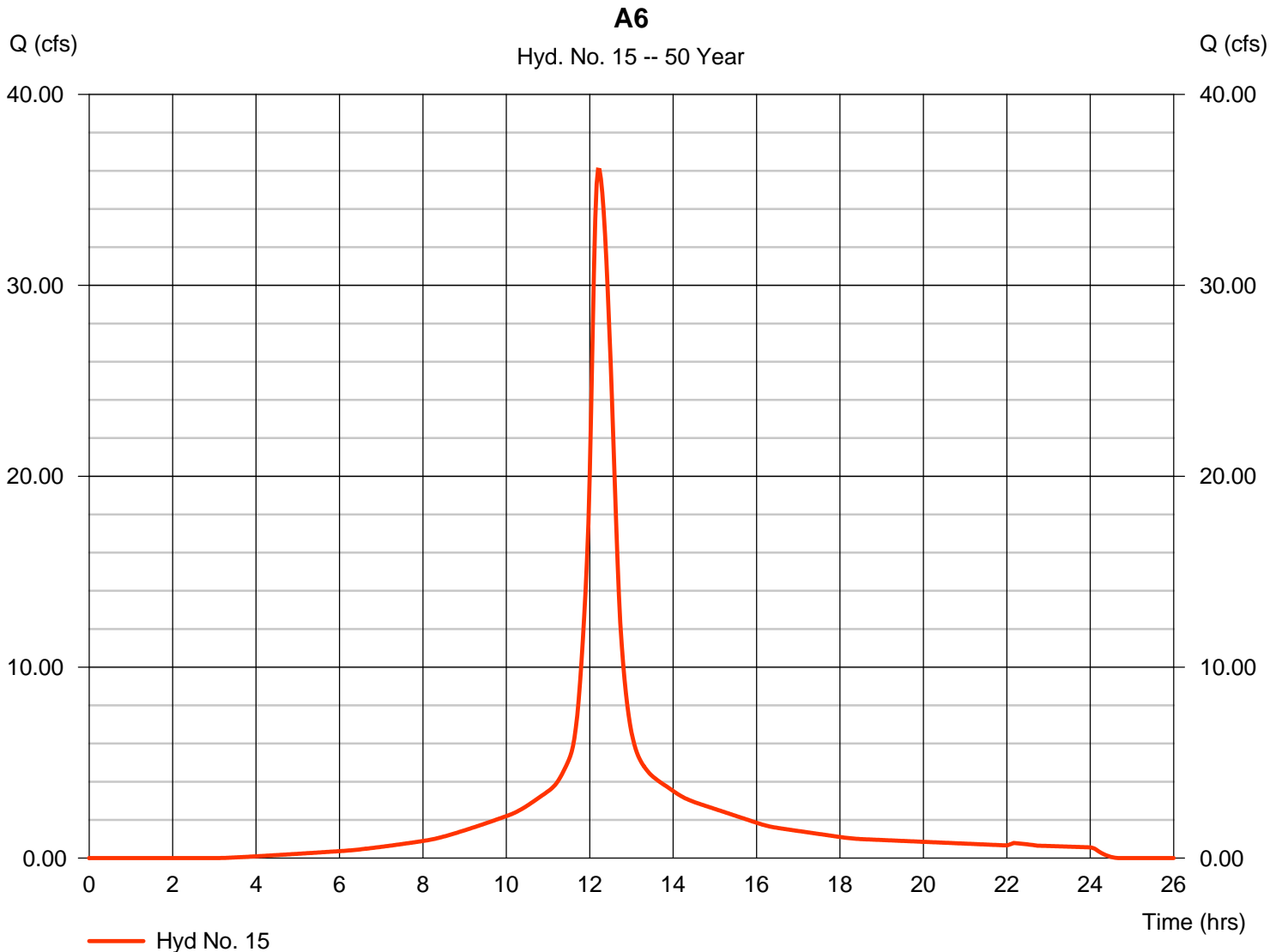
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Hyd. No. 15

A6

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 6.300 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 36.06 cfs
 Time to peak = 12.20 hrs
 Hyd. volume = 195,695 cuft
 Curve number = 87
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 15.30 min
 Distribution = Type III
 Shape factor = 300



Hydrograph Report

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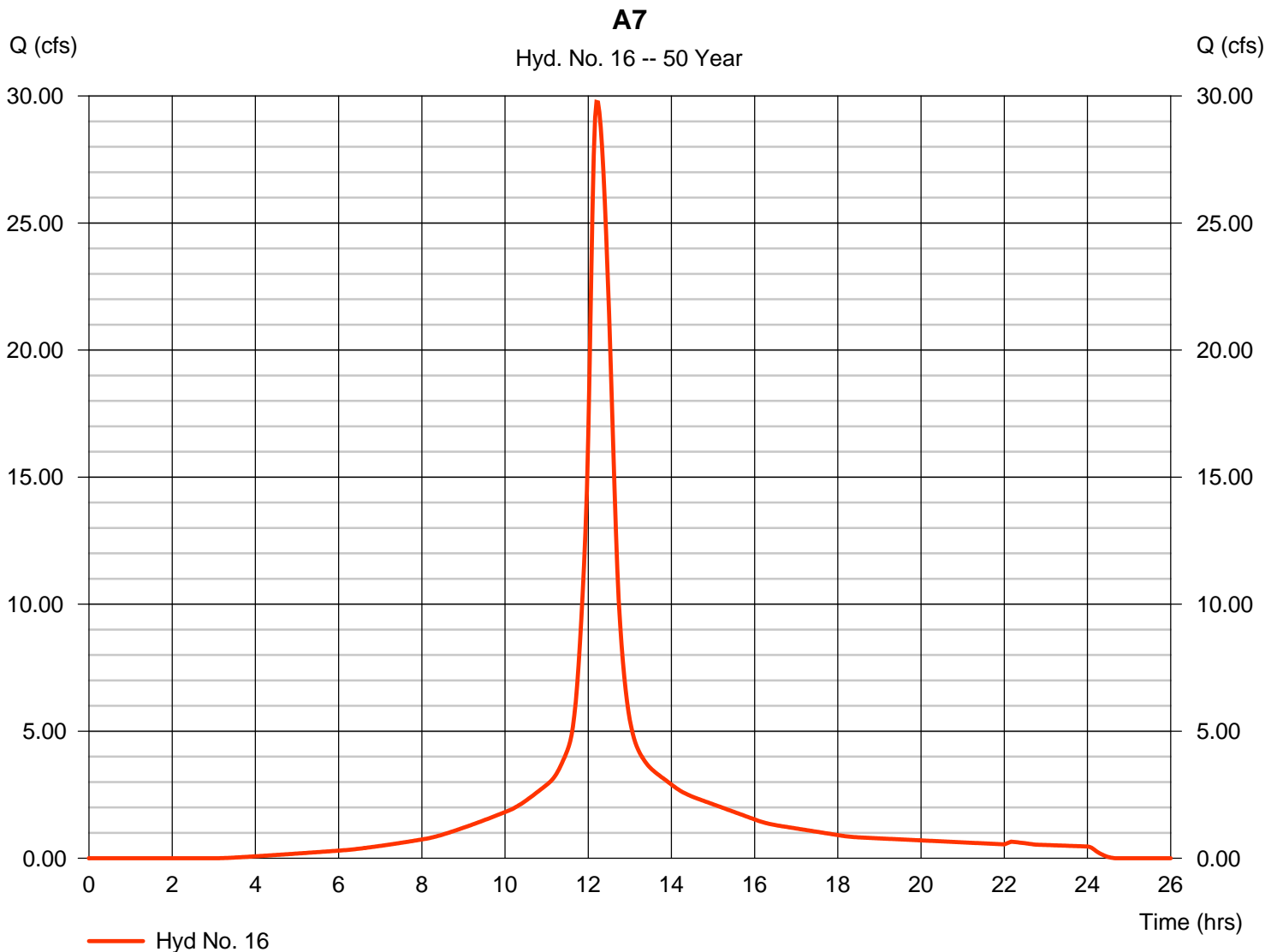
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Hyd. No. 16

A7

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 5.200 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 29.76 cfs
 Time to peak = 12.20 hrs
 Hyd. volume = 161,526 cuft
 Curve number = 87
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 15.70 min
 Distribution = Type III
 Shape factor = 300



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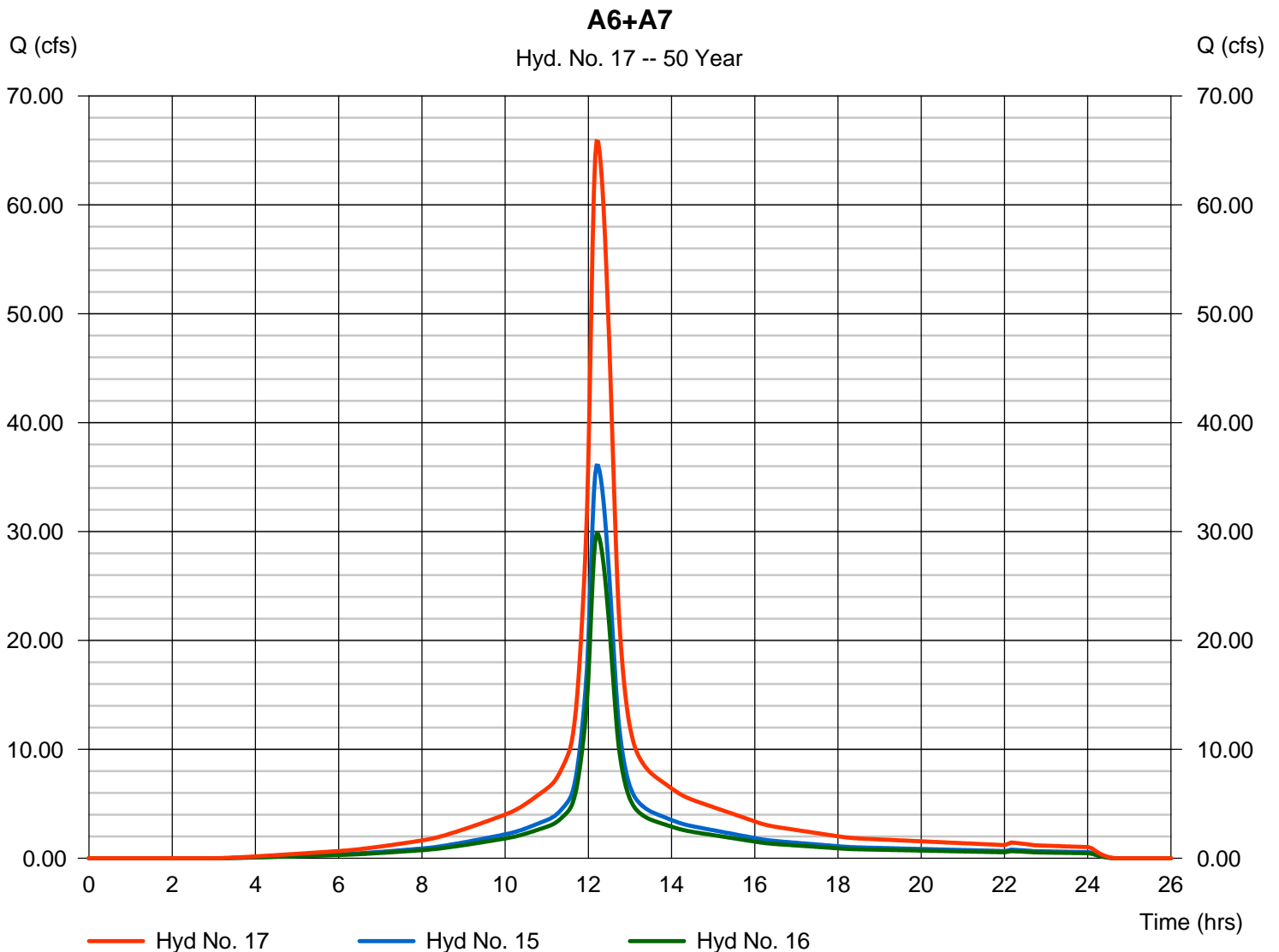
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Hyd. No. 17

A6+A7

Hydrograph type = Combine
Storm frequency = 50 yrs
Time interval = 2 min
Inflow hyds. = 15, 16

Peak discharge = 65.82 cfs
Time to peak = 12.20 hrs
Hyd. volume = 357,221 cuft
Contrib. drain. area = 11.500 ac



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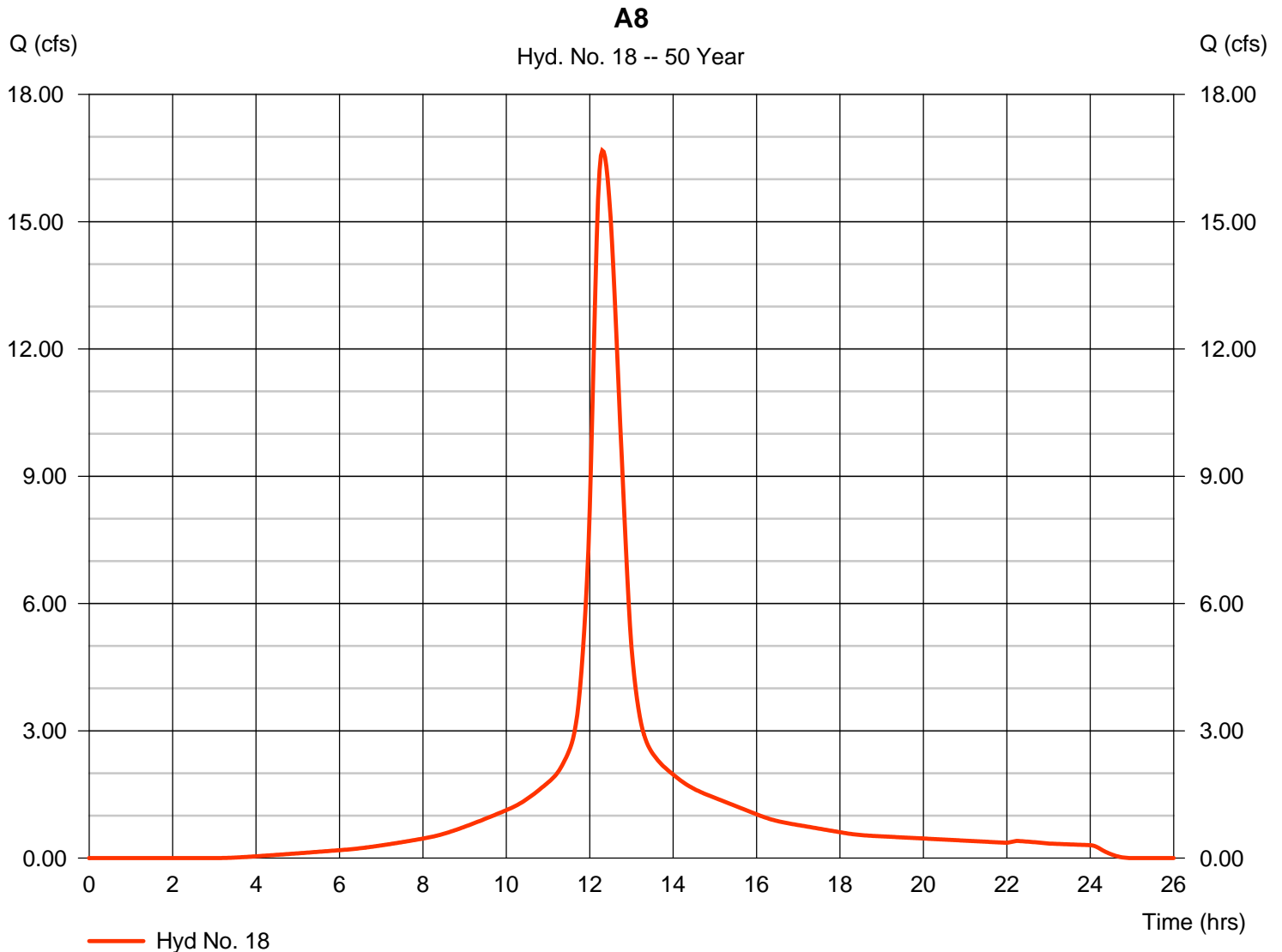
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Hyd. No. 18

A8

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 3.460 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 16.68 cfs
 Time to peak = 12.30 hrs
 Hyd. volume = 104,685 cuft
 Curve number = 87
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 21.40 min
 Distribution = Type III
 Shape factor = 300



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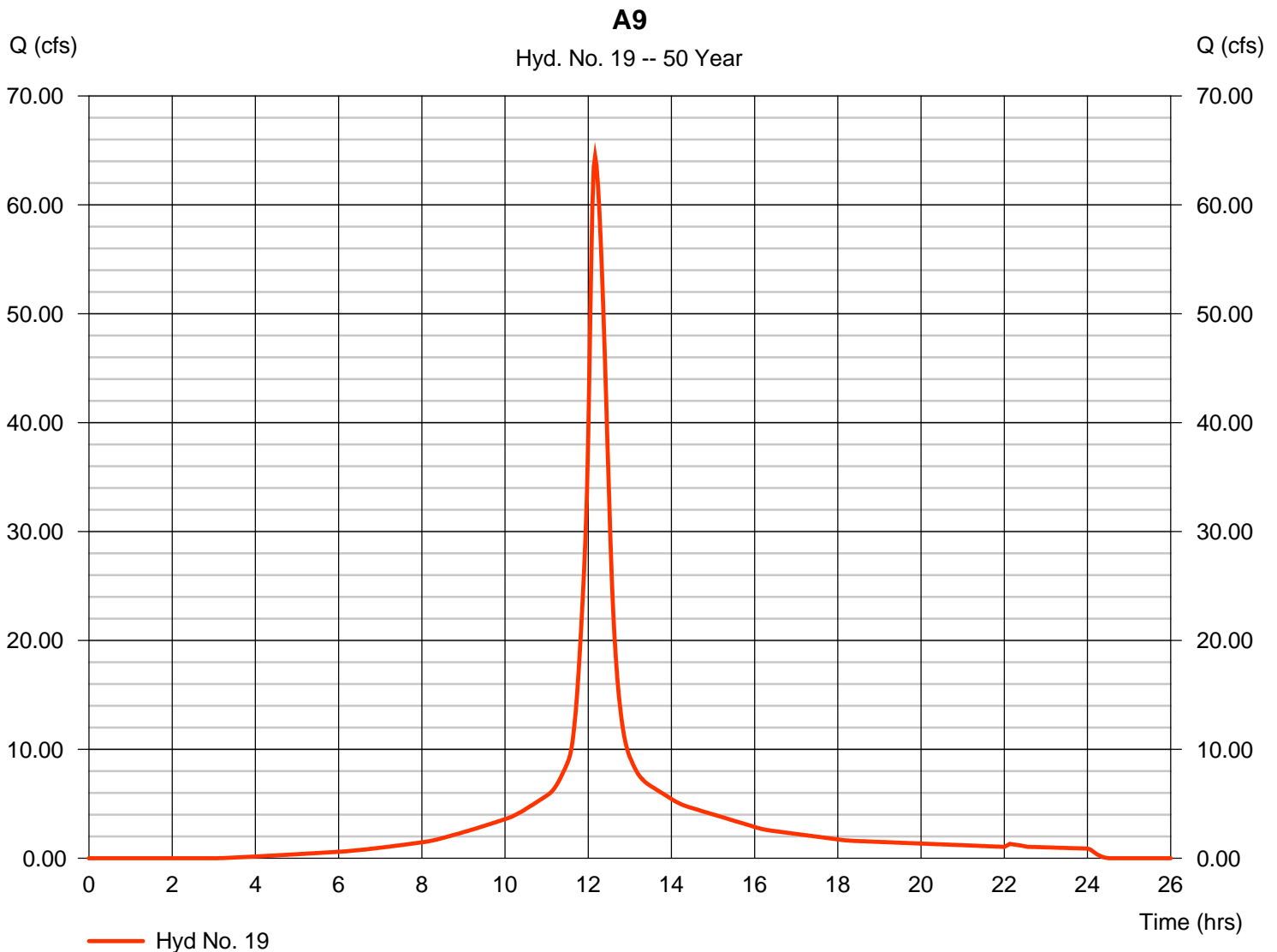
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Hyd. No. 19

A9

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 10.400 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 64.46 cfs
 Time to peak = 12.17 hrs
 Hyd. volume = 312,039 cuft
 Curve number = 87
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 10.00 min
 Distribution = Type III
 Shape factor = 300



Hydrograph Report

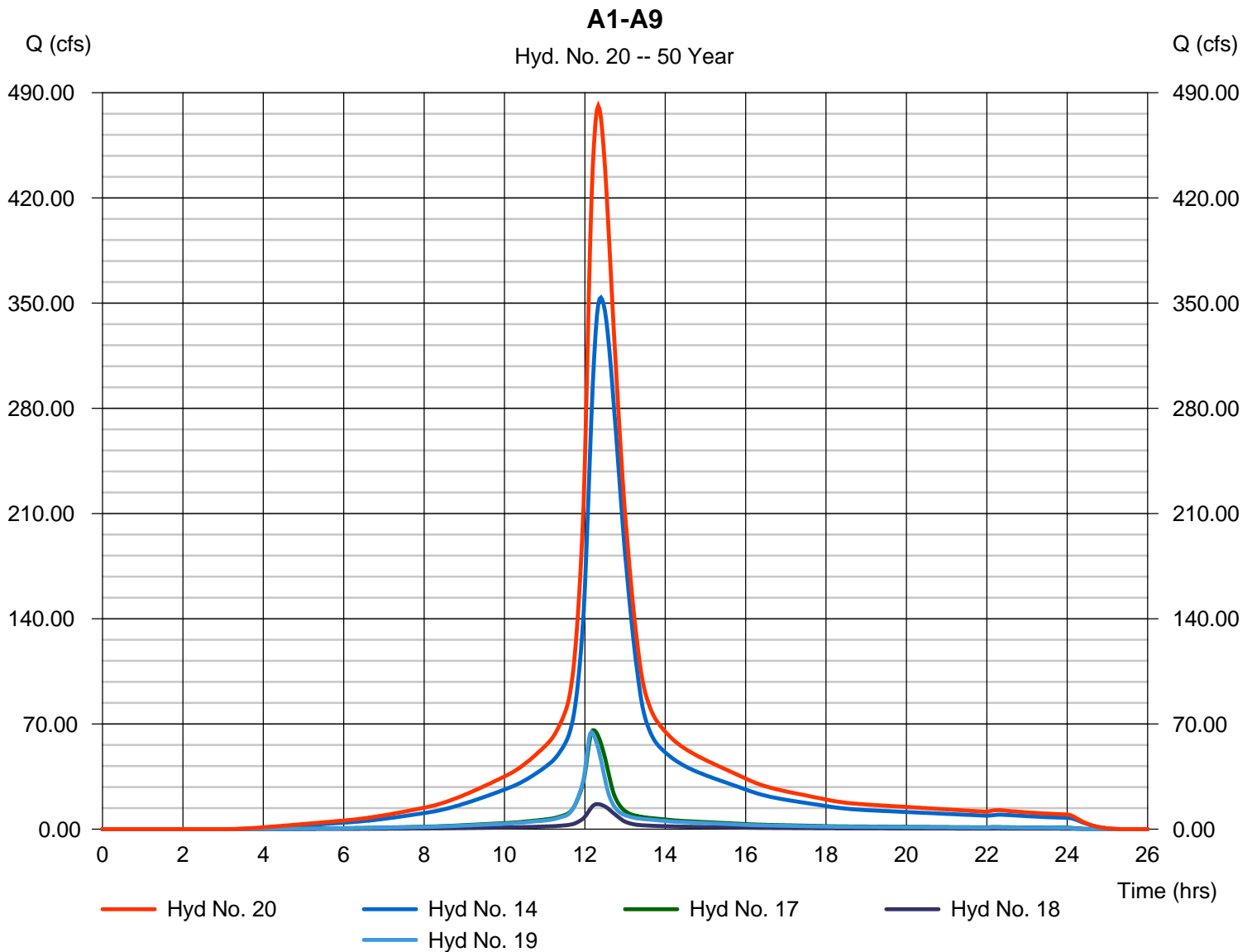
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Hyd. No. 20

A1-A9

Hydrograph type	= Combine	Peak discharge	= 481.20 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.33 hrs
Time interval	= 2 min	Hyd. volume	= 3,328,362 cuft
Inflow hyds.	= 14, 17, 18, 19	Contrib. drain. area	= 13.860 ac



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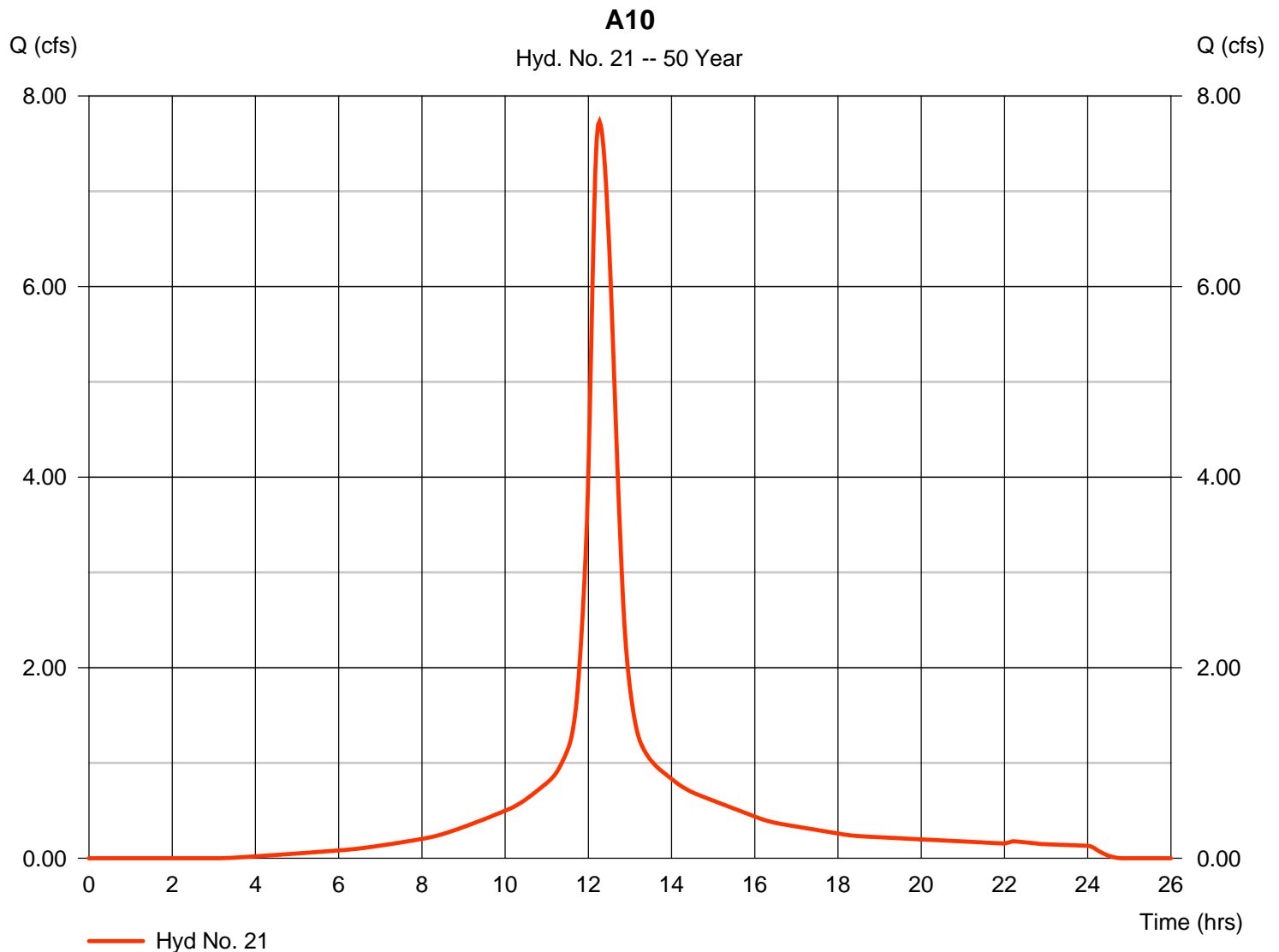
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Hyd. No. 21

A10

Hydrograph type	= SCS Runoff	Peak discharge	= 7.733 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.27 hrs
Time interval	= 2 min	Hyd. volume	= 45,276 cuft
Drainage area	= 1.480 ac	Curve number	= 87
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 19.70 min
Total precip.	= 9.96 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



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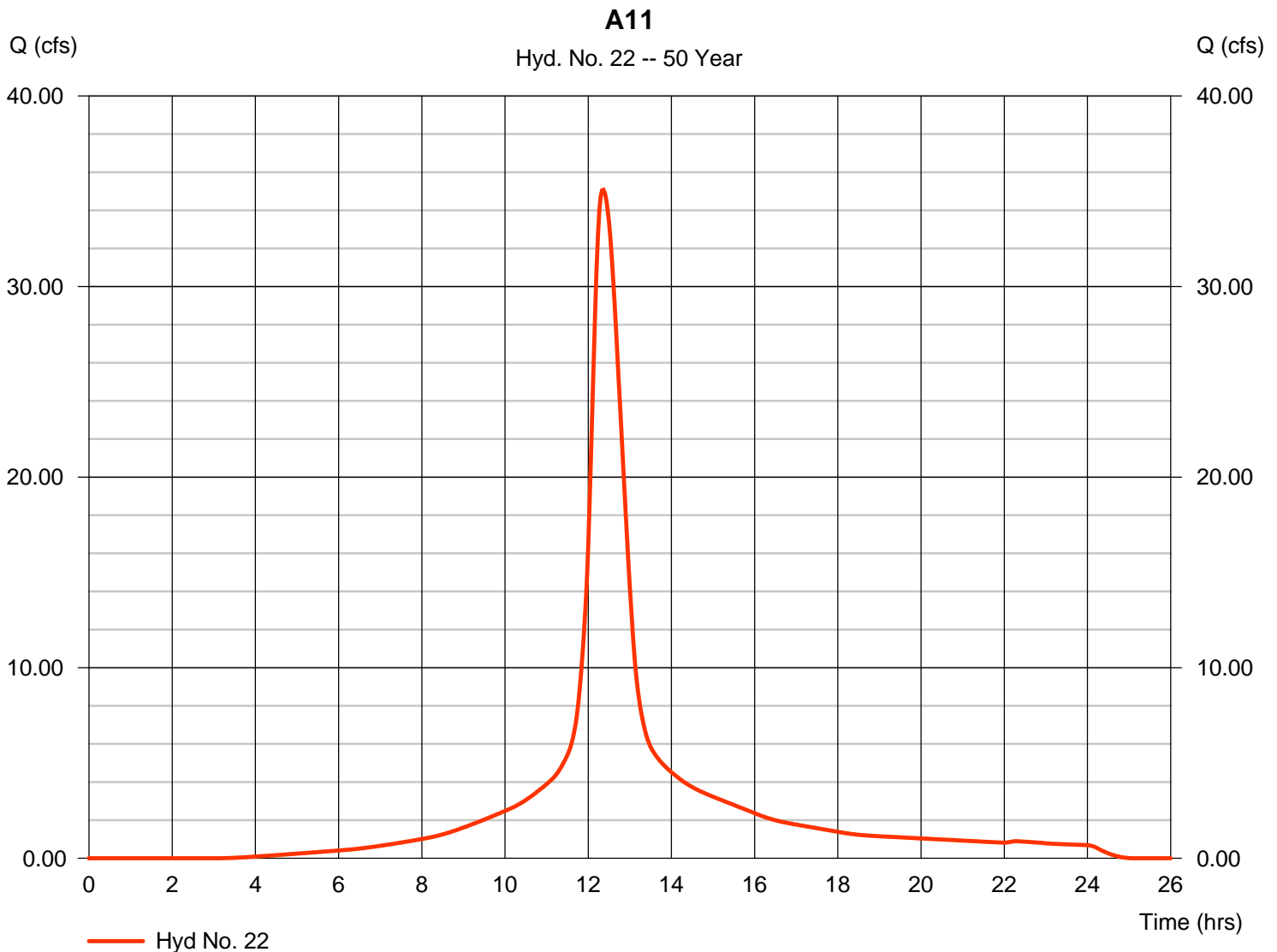
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Hyd. No. 22

A11

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 7.820 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 35.08 cfs
 Time to peak = 12.37 hrs
 Hyd. volume = 234,629 cuft
 Curve number = 87
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 25.00 min
 Distribution = Type III
 Shape factor = 300



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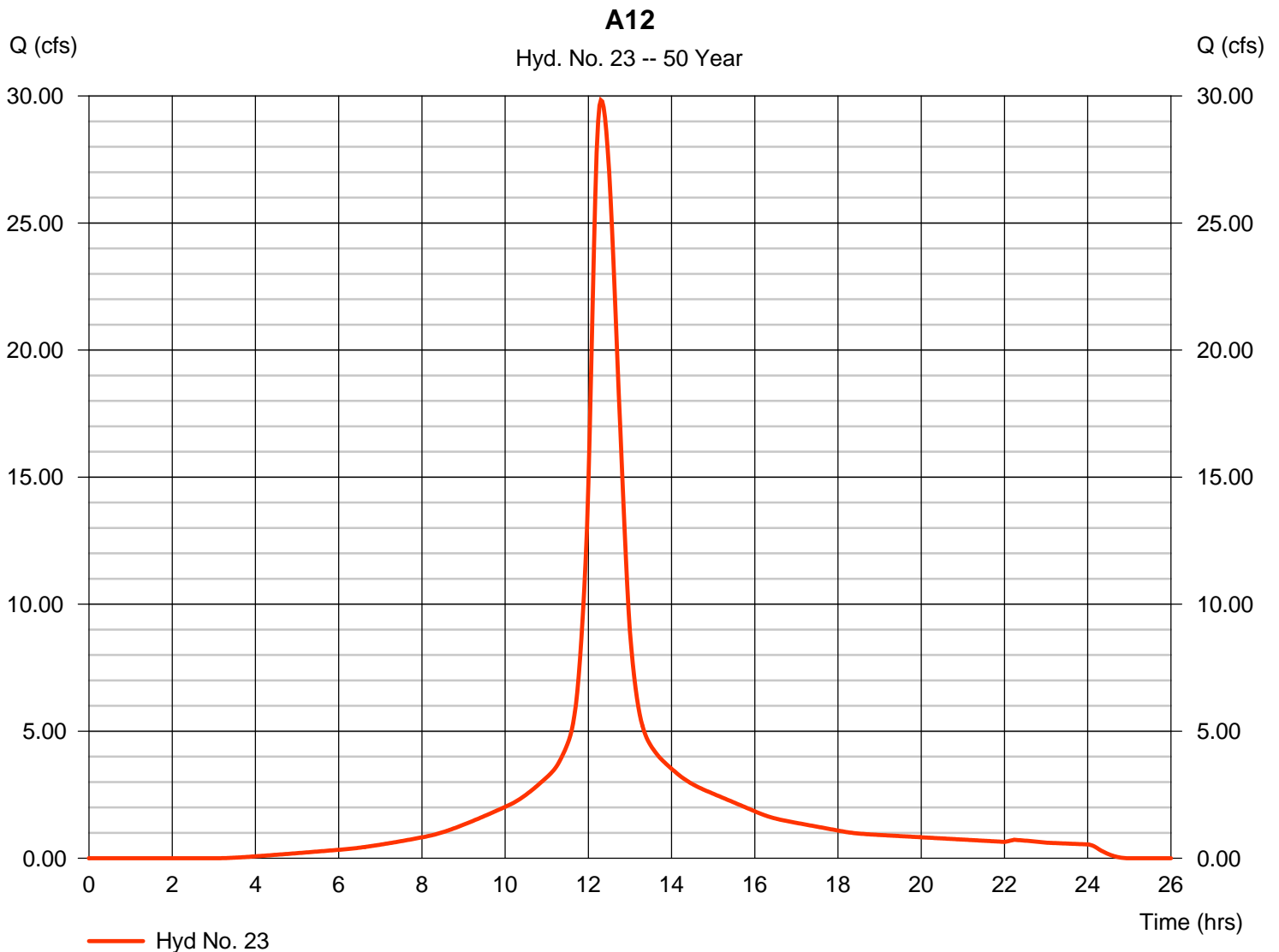
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Hyd. No. 23

A12

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 6.190 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 29.83 cfs
 Time to peak = 12.30 hrs
 Hyd. volume = 187,284 cuft
 Curve number = 87
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 22.50 min
 Distribution = Type III
 Shape factor = 300



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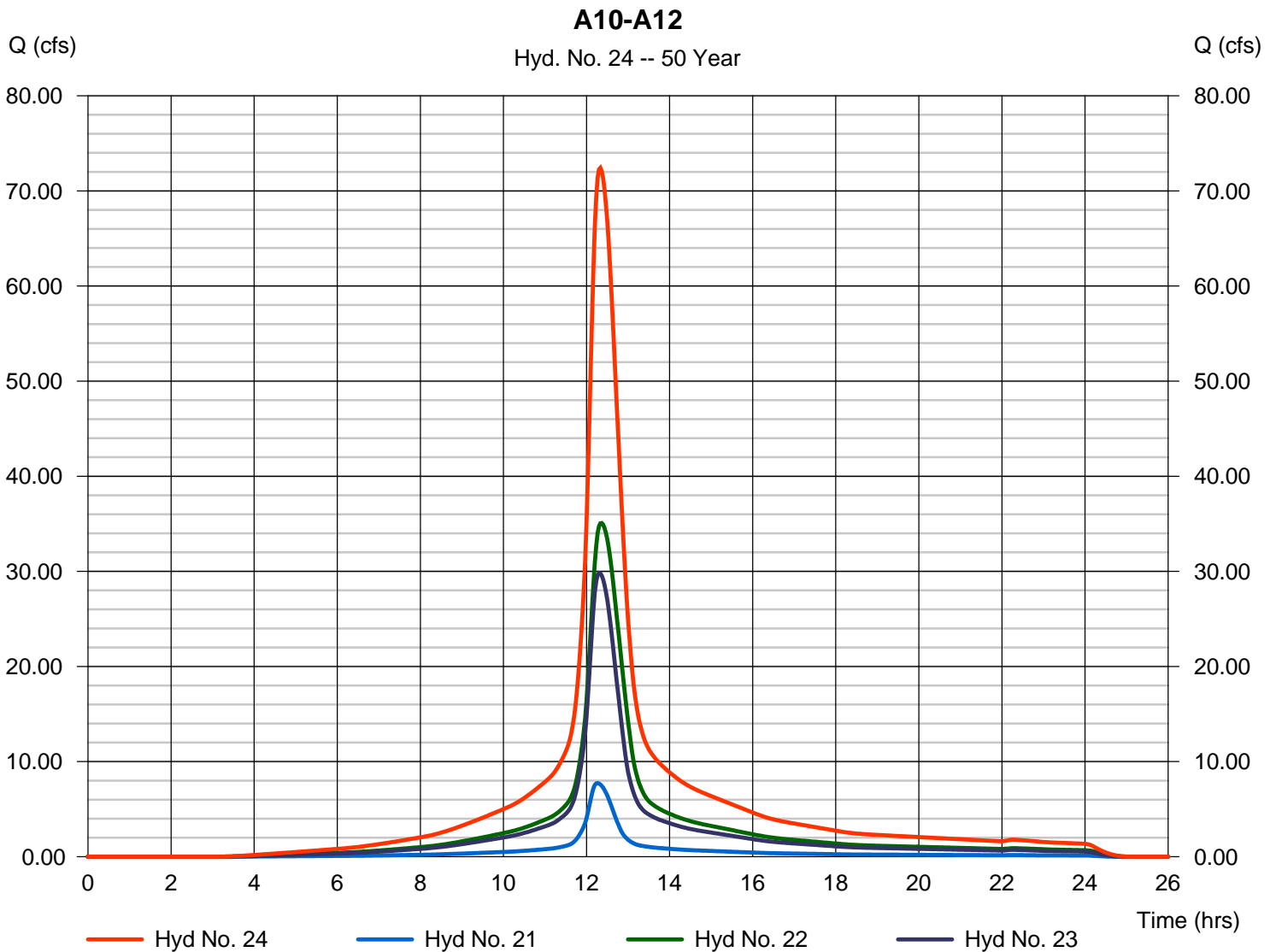
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Hyd. No. 24

A10-A12

Hydrograph type = Combine
Storm frequency = 50 yrs
Time interval = 2 min
Inflow hyds. = 21, 22, 23

Peak discharge = 72.42 cfs
Time to peak = 12.33 hrs
Hyd. volume = 467,189 cuft
Contrib. drain. area = 15.490 ac



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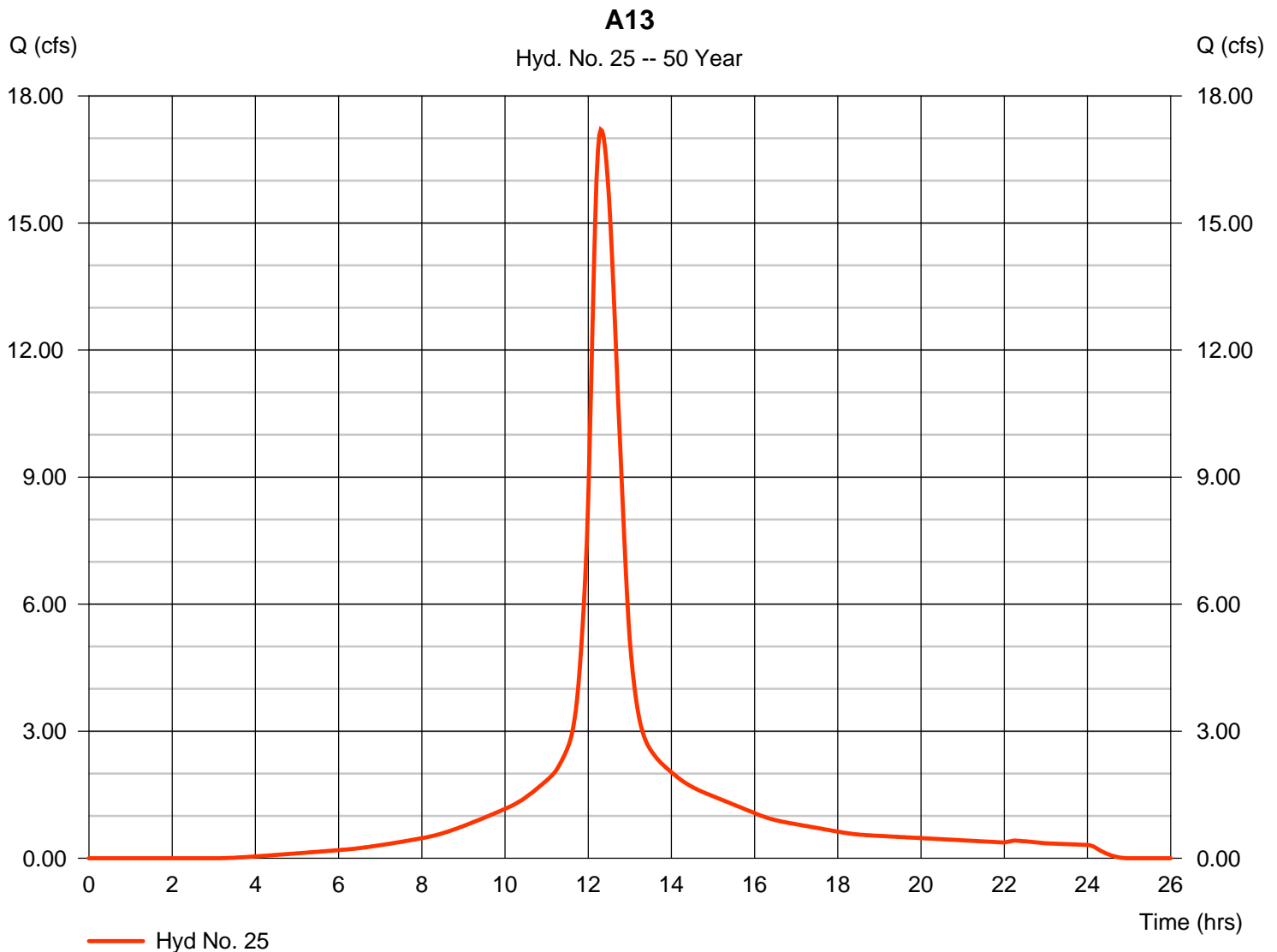
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Hyd. No. 25

A13

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 3.570 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 17.21 cfs
 Time to peak = 12.30 hrs
 Hyd. volume = 108,013 cuft
 Curve number = 87
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 21.80 min
 Distribution = Type III
 Shape factor = 300



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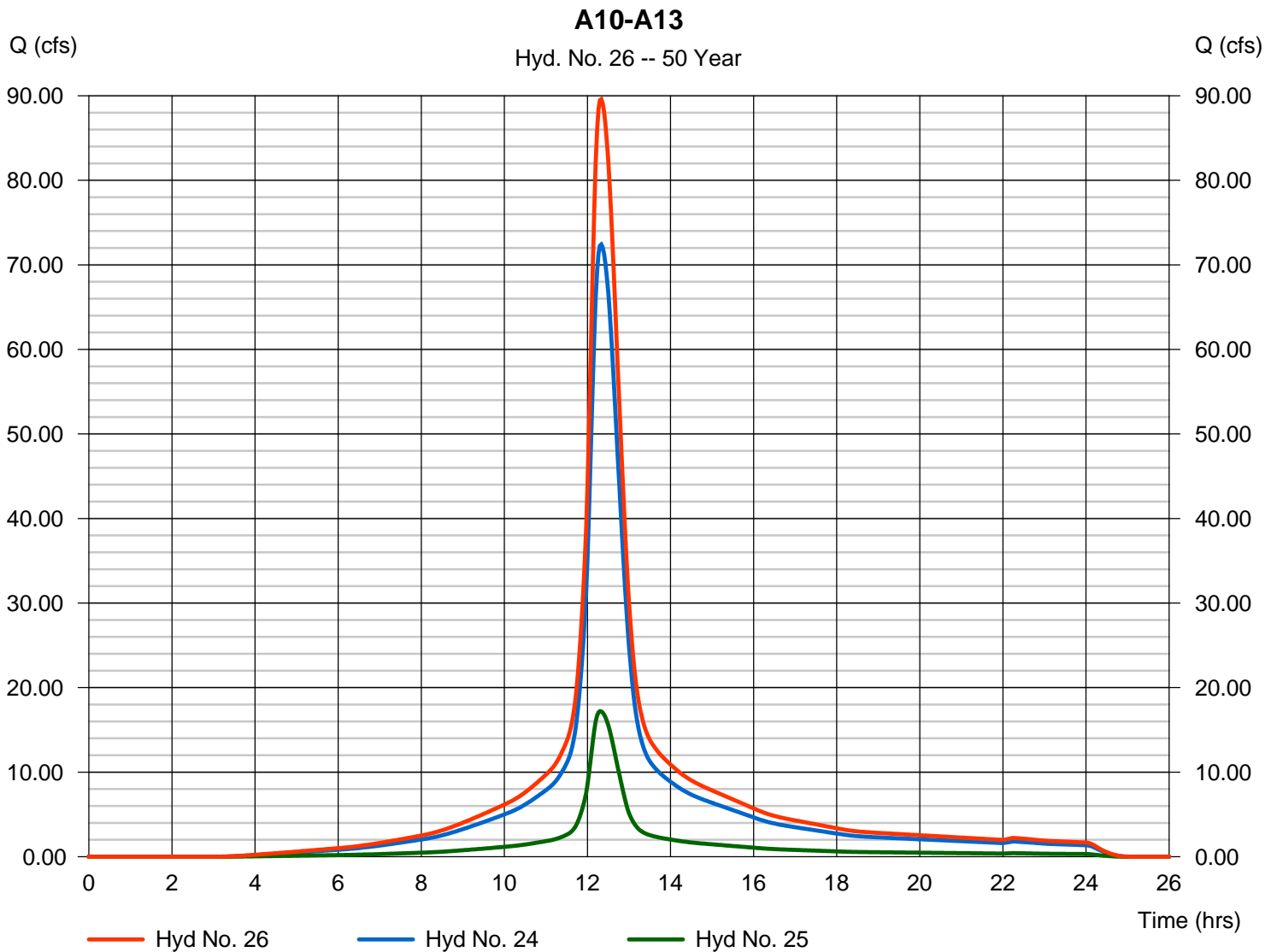
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Hyd. No. 26

A10-A13

Hydrograph type = Combine
Storm frequency = 50 yrs
Time interval = 2 min
Inflow hyds. = 24, 25

Peak discharge = 89.60 cfs
Time to peak = 12.33 hrs
Hyd. volume = 575,202 cuft
Contrib. drain. area = 3.570 ac



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2019.2

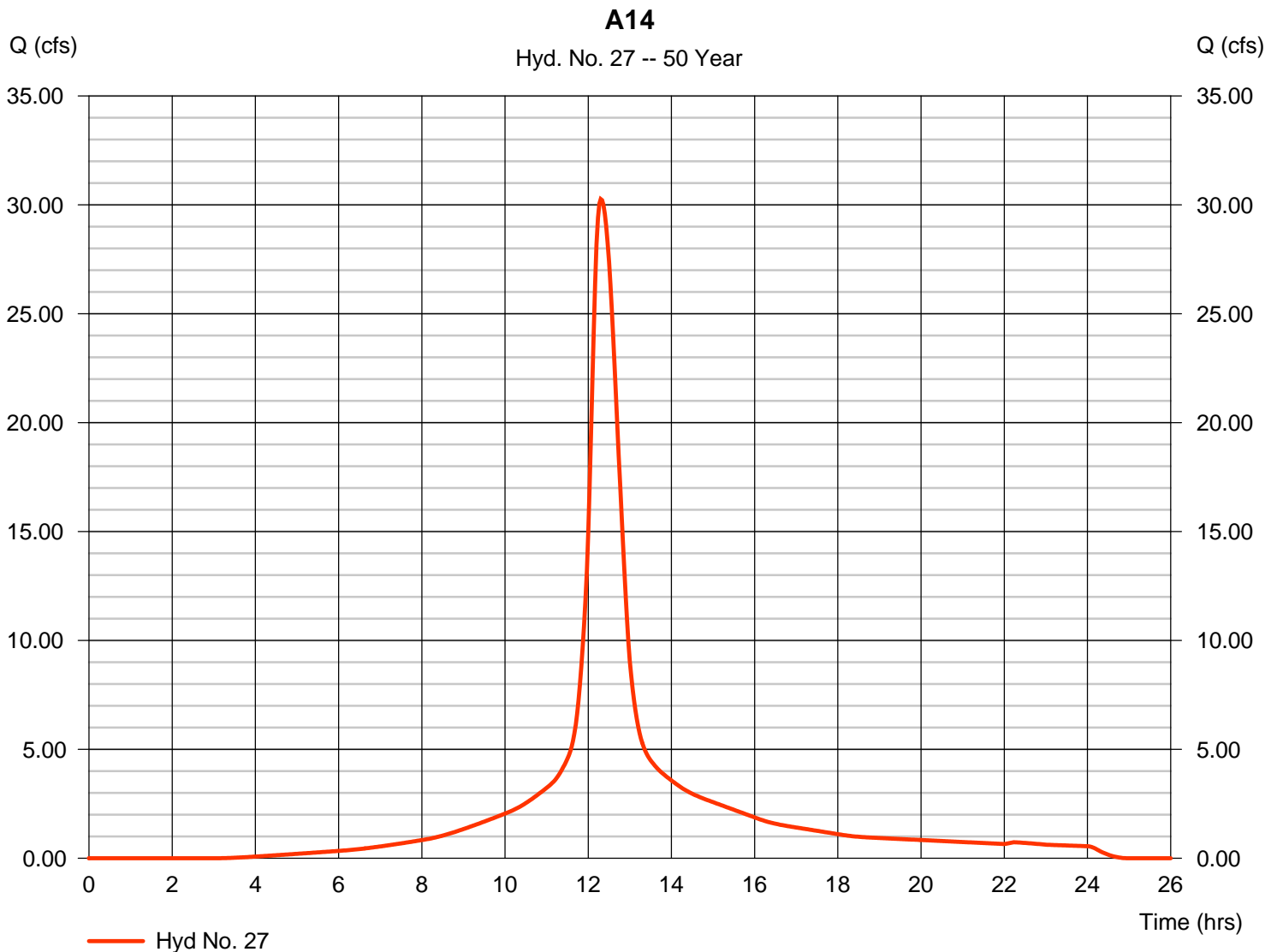
Wednesday, 07 / 15 / 2020

Hyd. No. 27

A14

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 6.280 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 30.27 cfs
 Time to peak = 12.30 hrs
 Hyd. volume = 190,007 cuft
 Curve number = 87
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 21.00 min
 Distribution = Type III
 Shape factor = 300



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2019.2

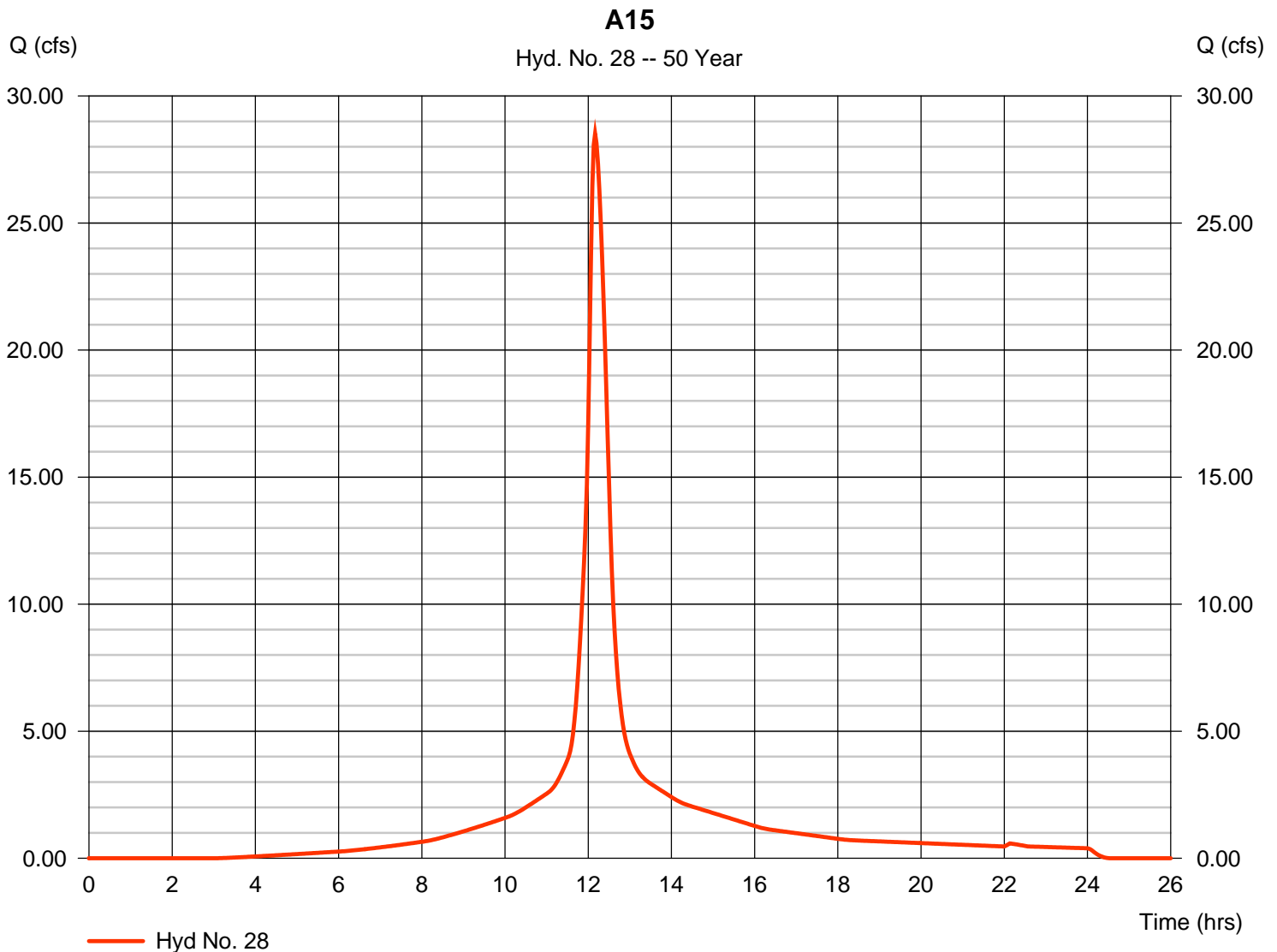
Wednesday, 07 / 15 / 2020

Hyd. No. 28

A15

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 4.600 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 28.51 cfs
 Time to peak = 12.17 hrs
 Hyd. volume = 138,017 cuft
 Curve number = 87
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 10.00 min
 Distribution = Type III
 Shape factor = 300



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2019.2

Wednesday, 07 / 15 / 2020

Hyd. No. 29

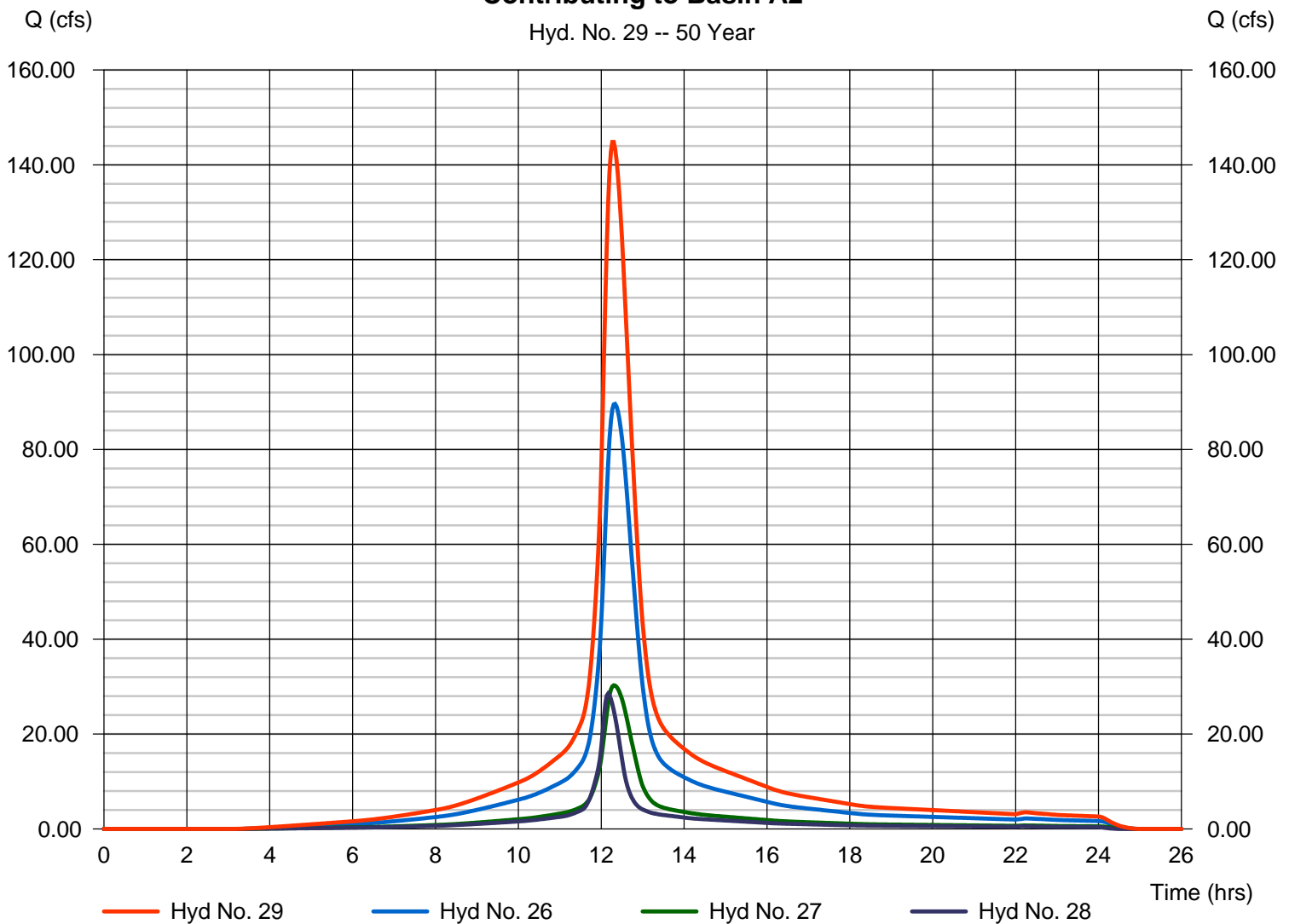
Contributing to Basin A2

Hydrograph type = Combine
Storm frequency = 50 yrs
Time interval = 2 min
Inflow hyds. = 26, 27, 28

Peak discharge = 144.82 cfs
Time to peak = 12.30 hrs
Hyd. volume = 903,227 cuft
Contrib. drain. area = 10.880 ac

Contributing to Basin A2

Hyd. No. 29 -- 50 Year



Hydrograph Report

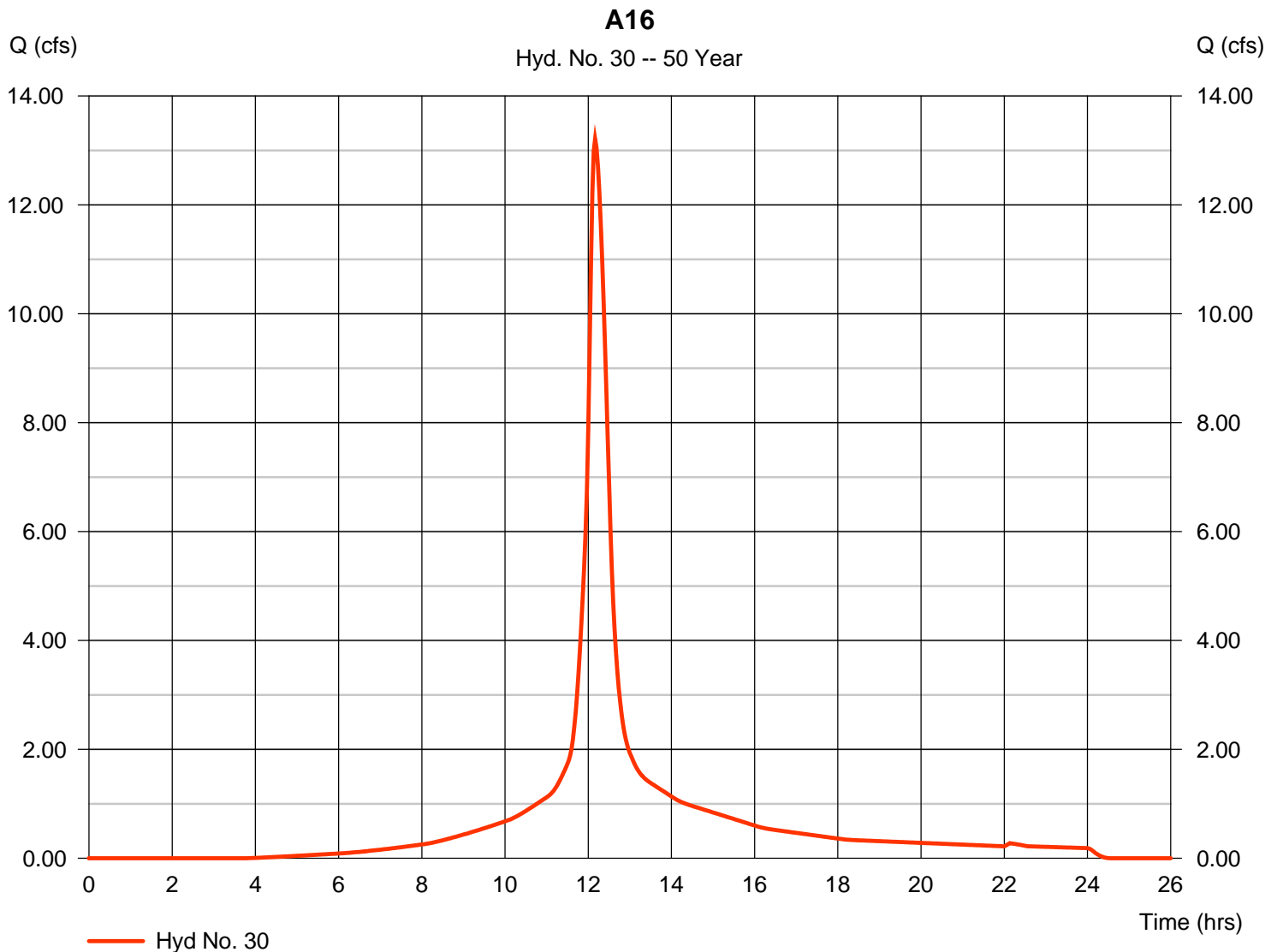
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2019.2

Wednesday, 07 / 15 / 2020

Hyd. No. 30

A16

Hydrograph type	= SCS Runoff	Peak discharge	= 13.21 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.17 hrs
Time interval	= 2 min	Hyd. volume	= 63,035 cuft
Drainage area	= 2.200 ac	Curve number	= 84
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 10.00 min
Total precip.	= 9.96 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2019.2

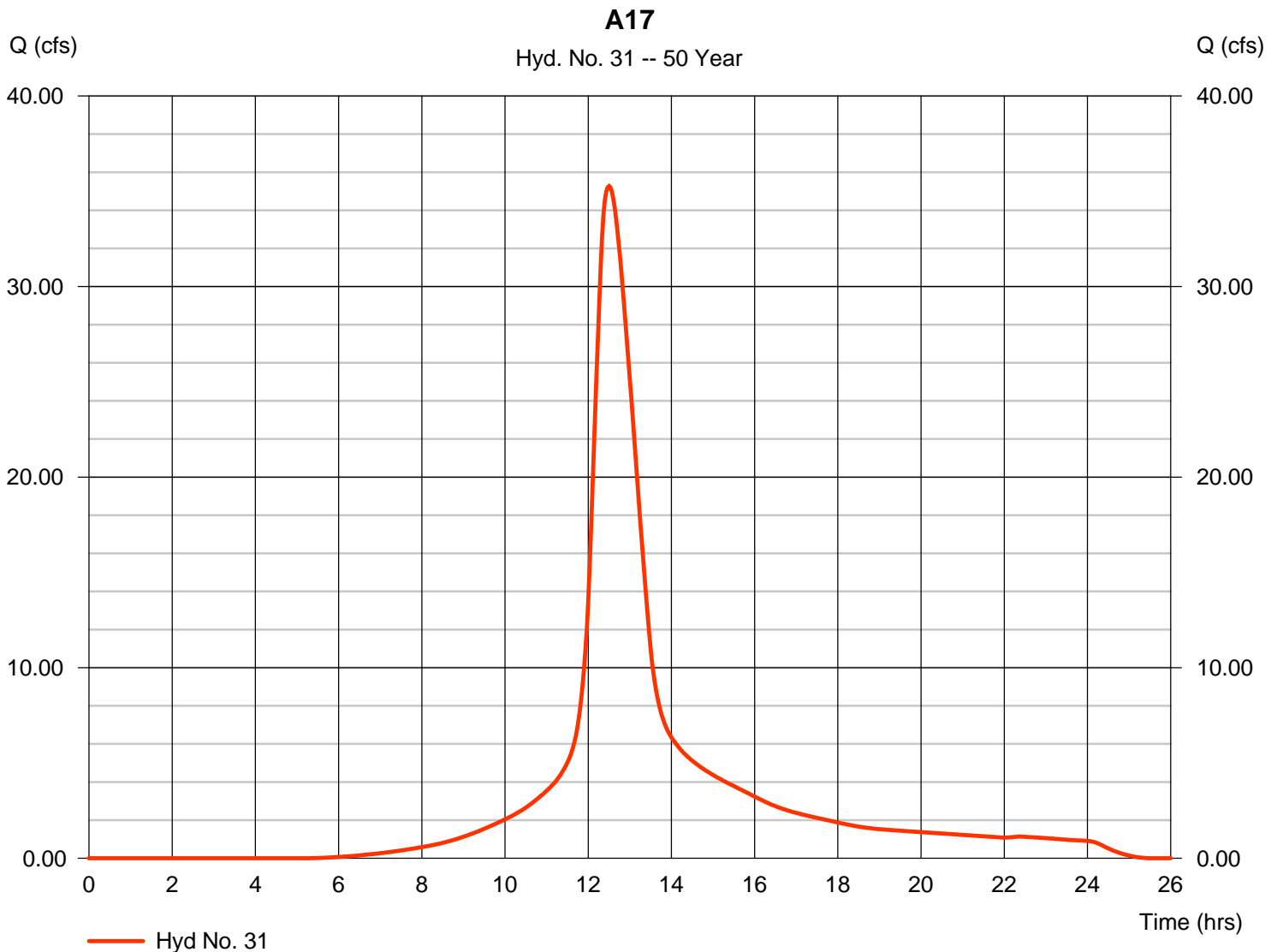
Wednesday, 07 / 15 / 2020

Hyd. No. 31

A17

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 10.470 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 35.27 cfs
 Time to peak = 12.50 hrs
 Hyd. volume = 272,771 cuft
 Curve number = 78
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 35.30 min
 Distribution = Type III
 Shape factor = 300



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2019.2

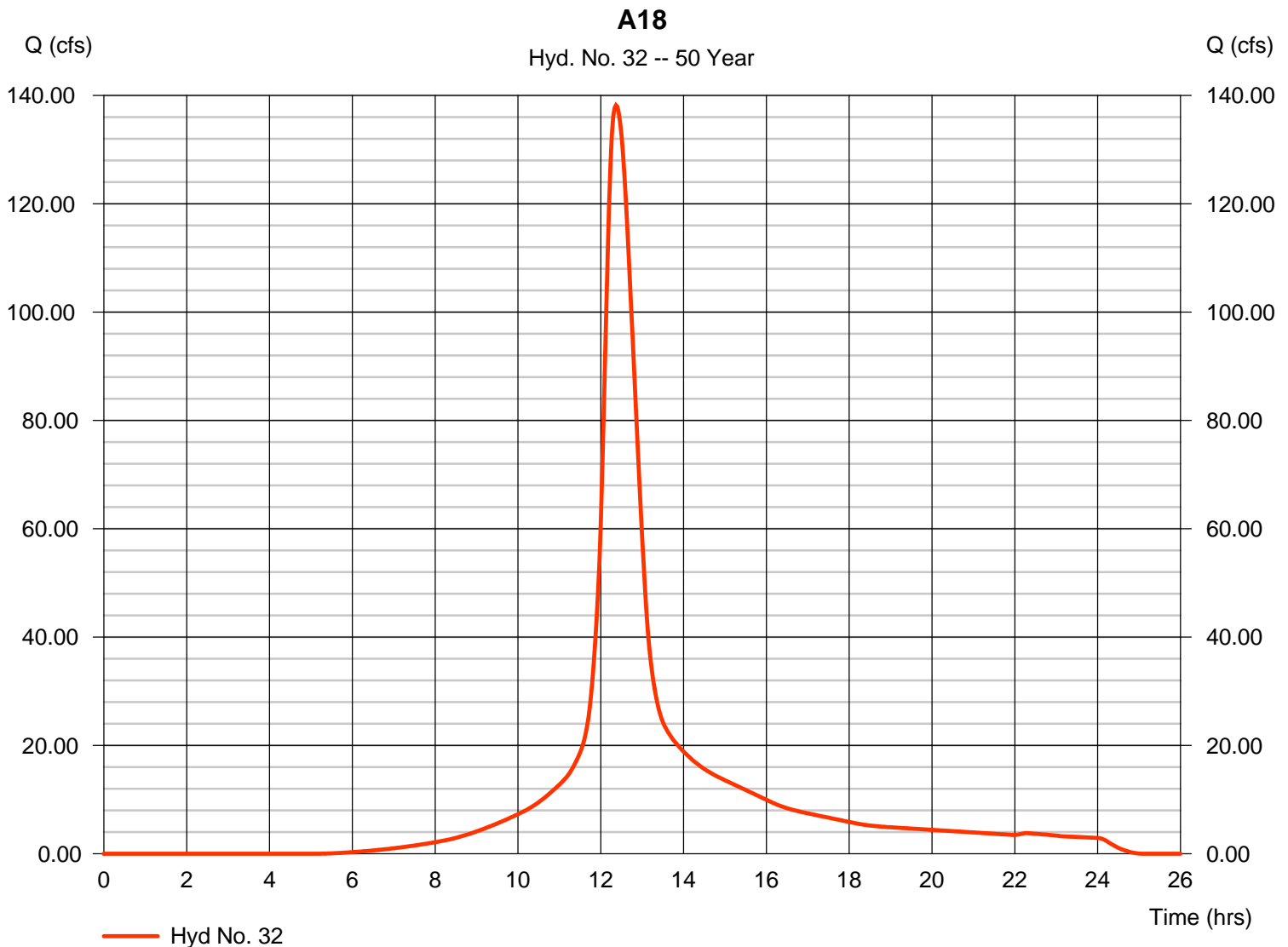
Wednesday, 07 / 15 / 2020

Hyd. No. 32

A18

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Time interval = 2 min
 Drainage area = 34.490 ac
 Basin Slope = 0.0 %
 Tc method = User
 Total precip. = 9.96 in
 Storm duration = 24 hrs

Peak discharge = 138.18 cfs
 Time to peak = 12.37 hrs
 Hyd. volume = 893,776 cuft
 Curve number = 78
 Hydraulic length = 0 ft
 Time of conc. (Tc) = 25.60 min
 Distribution = Type III
 Shape factor = 300



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2019.2

Wednesday, 07 / 15 / 2020

Hyd. No. 33

ULT B

Hydrograph type	= SCS Runoff	Peak discharge	= 249.01 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.40 hrs
Time interval	= 2 min	Hyd. volume	= 1,792,081 cuft
Drainage area	= 58.580 ac	Curve number	= 87
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 28.80 min
Total precip.	= 9.96 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 300

