

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

Tuesday, Oct 13, 2020

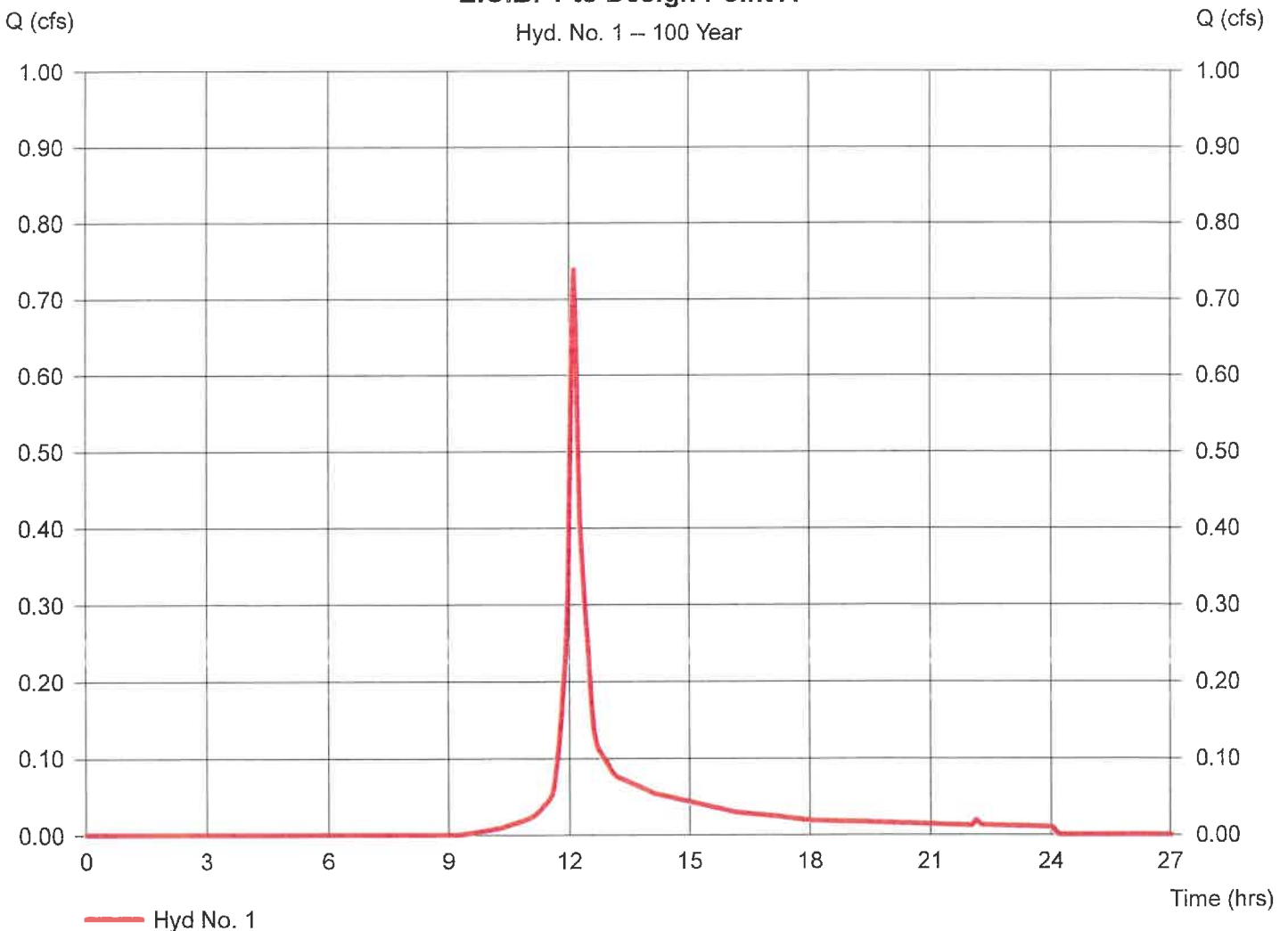
Hyd. No. 1

E.C.B.-1 to Design Point A

Hydrograph type	= SCS Runoff	Peak discharge	= 0.739 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.10 hrs
Time interval	= 3 min	Hyd. volume	= 2,473 cuft
Drainage area	= 0.198 ac	Curve number	= 61.9
Basin Slope	= 2.4 %	Hydraulic length	= 143 ft
Tc method	= LAG	Time of conc. (Tc)	= 7.10 min
Total precip.	= 8.16 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

E.C.B.-1 to Design Point A

Hyd. No. 1 -- 100 Year



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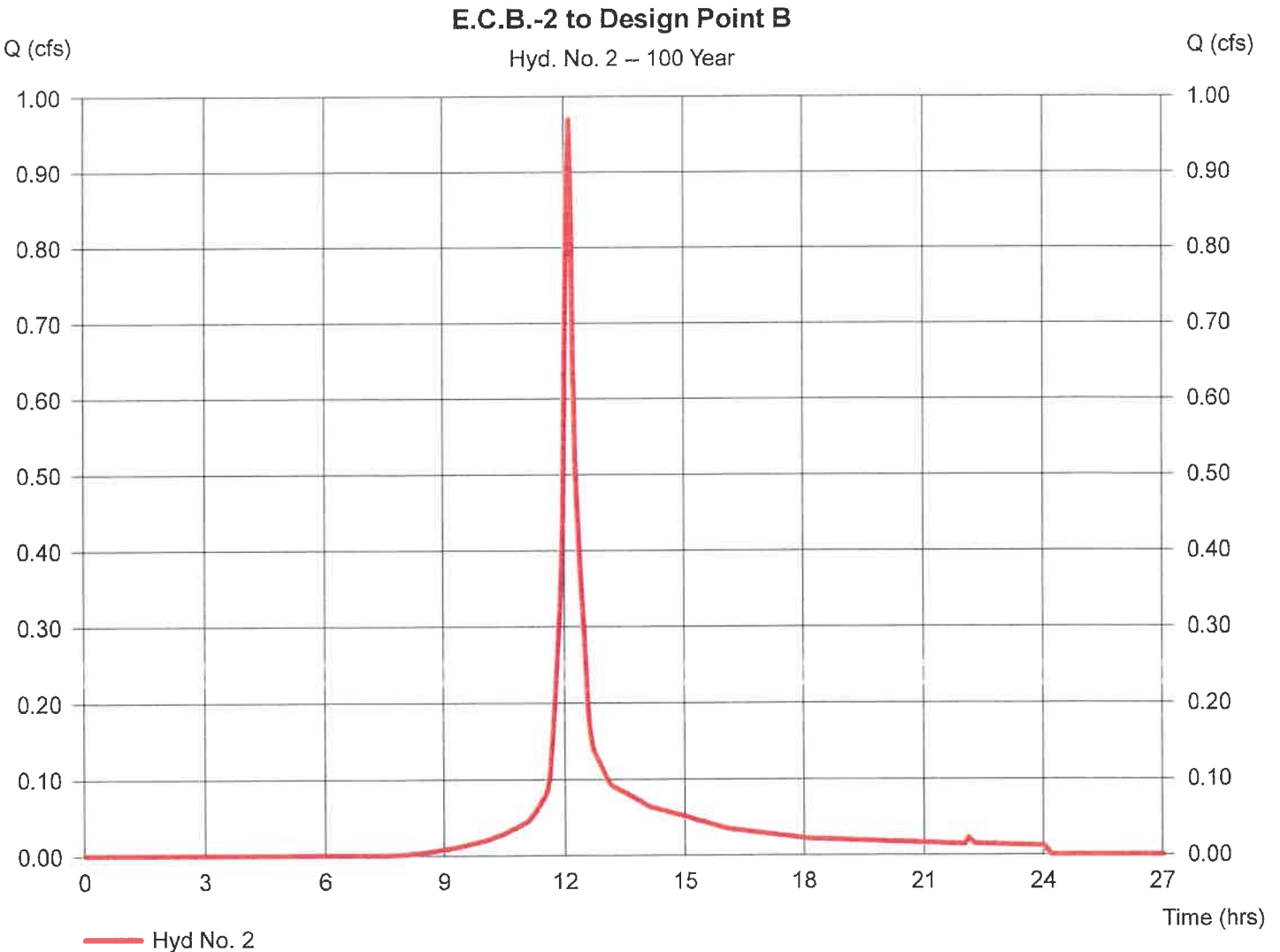
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Hyd. No. 2

E.C.B.-2 to Design Point B

Hydrograph type = SCS Runoff
 Storm frequency = 100 yrs
 Time interval = 3 min
 Drainage area = 0.204 ac
 Basin Slope = 2.5 %
 Tc method = LAG
 Total precip. = 8.16 in
 Storm duration = 24 hrs

Peak discharge = 0.970 cfs
 Time to peak = 12.10 hrs
 Hyd. volume = 3,227 cuft
 Curve number = 70.4
 Hydraulic length = 145 ft
 Time of conc. (Tc) = 5.60 min
 Distribution = Type III
 Shape factor = 484



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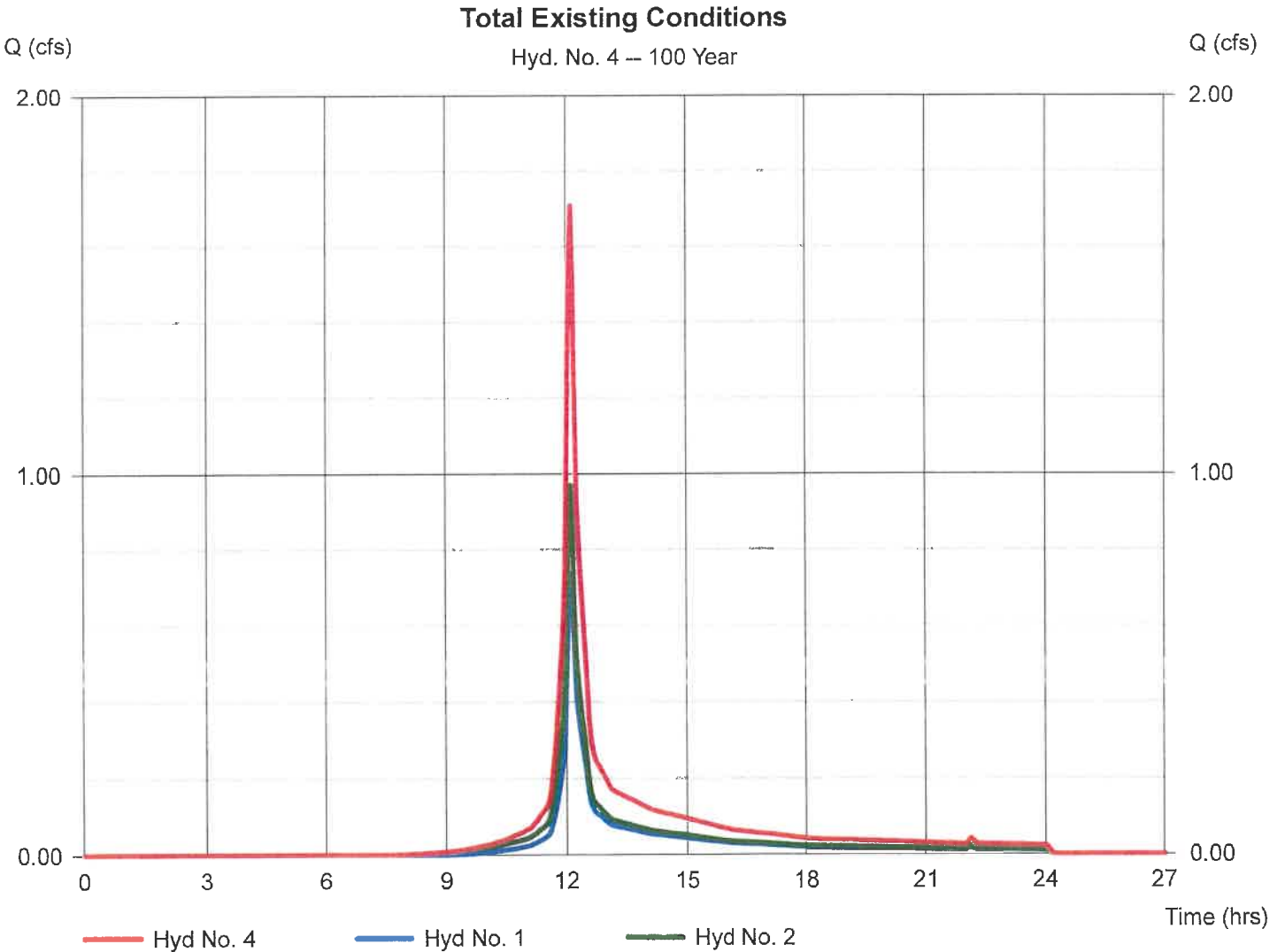
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Hyd. No. 4

Total Existing Conditions

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

Peak discharge = 1.709 cfs
Time to peak = 12.10 hrs
Hyd. volume = 5,700 cuft
Contrib. drain. area = 0.402 ac



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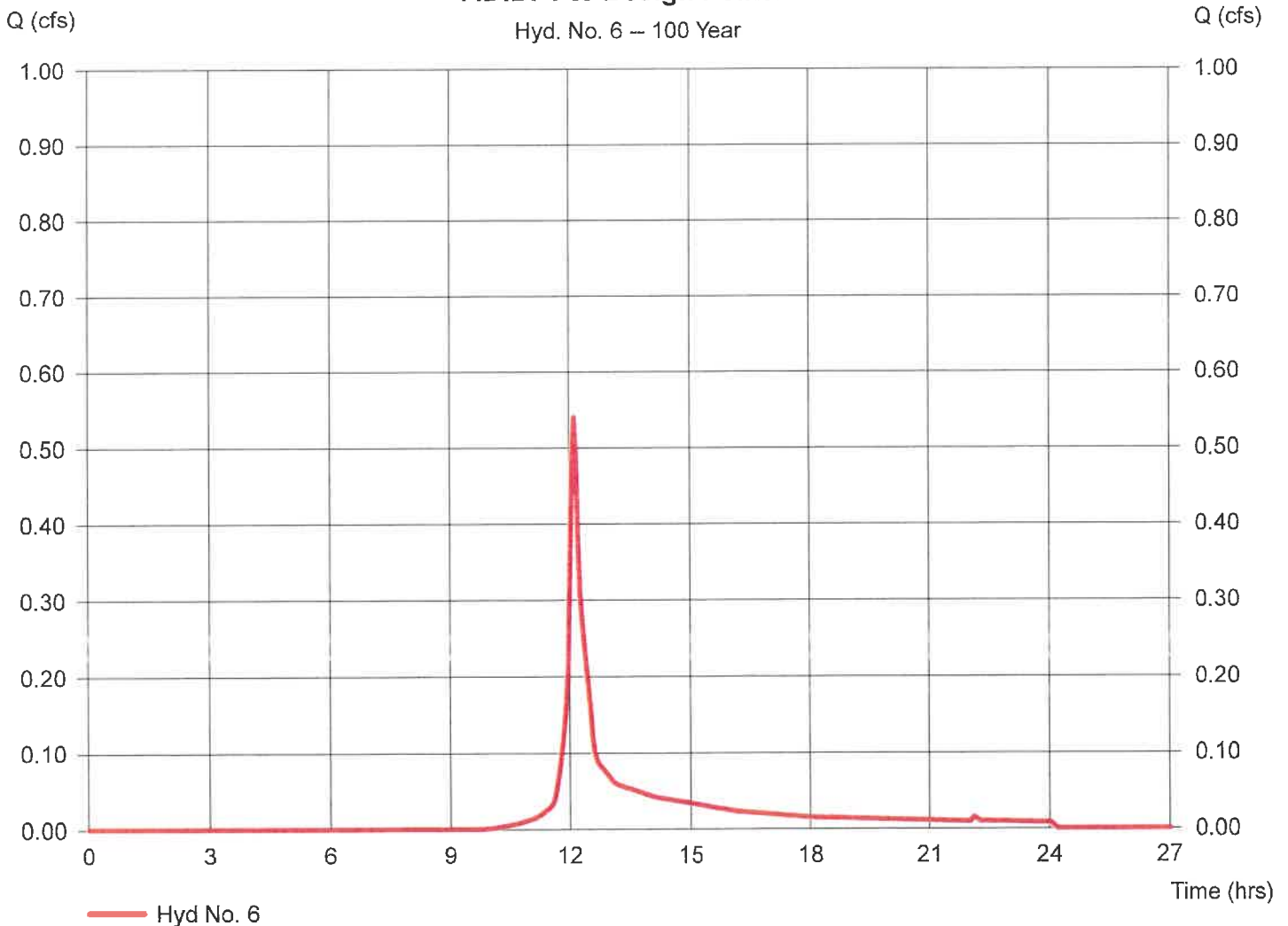
Hyd. No. 6

P.D.B.-1 to Design Point A

Hydrograph type	= SCS Runoff	Peak discharge	= 0.540 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.10 hrs
Time interval	= 3 min	Hyd. volume	= 1,830 cuft
Drainage area	= 0.166 ac	Curve number	= 58.1
Basin Slope	= 2.3 %	Hydraulic length	= 150 ft
Tc method	= LAG	Time of conc. (Tc)	= 8.30 min
Total precip.	= 8.16 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

P.D.B.-1 to Design Point A

Hyd. No. 6 -- 100 Year



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Hyd. No. 7

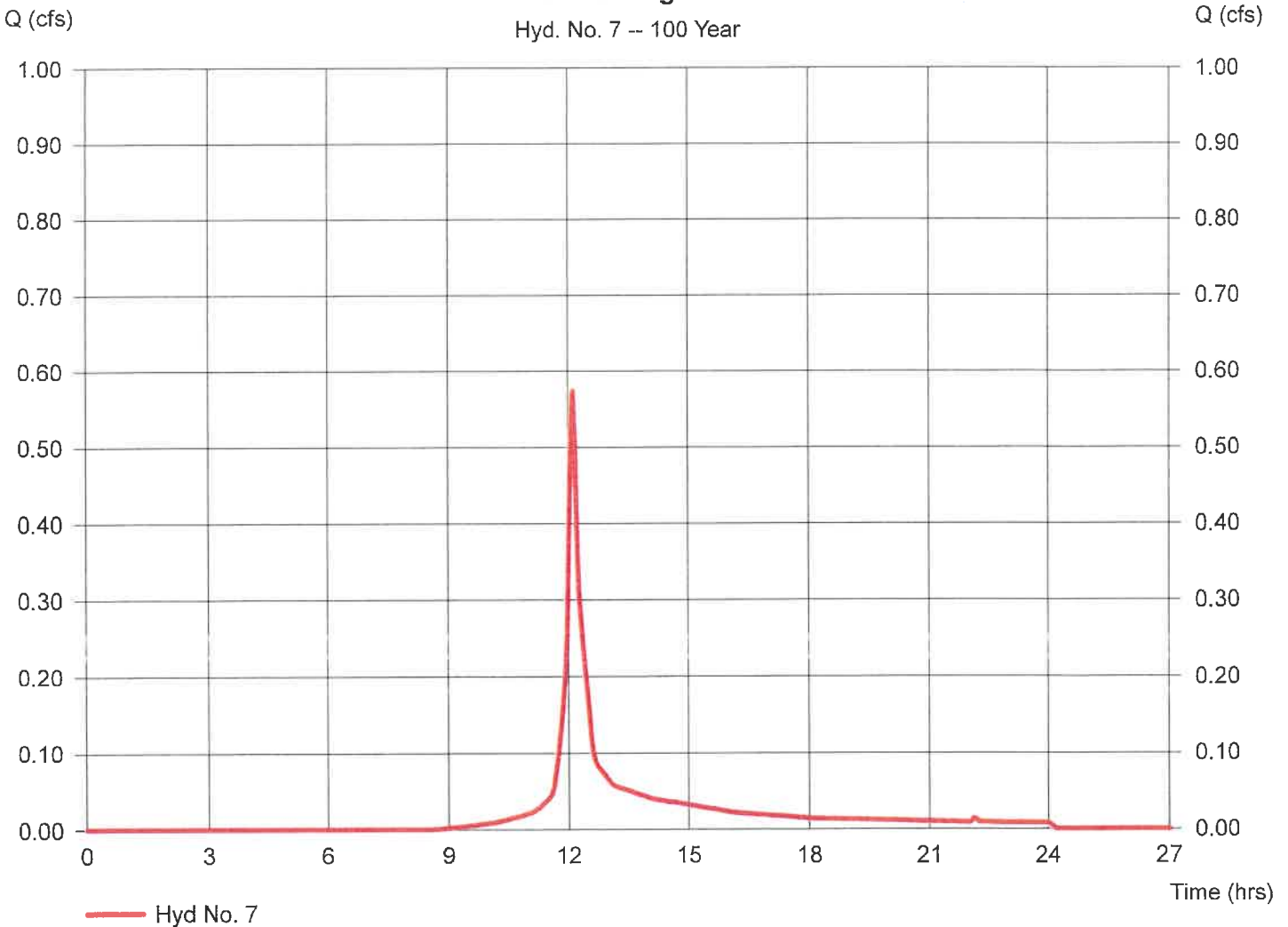
P.D.B.-2 to Design Point B

Hydrograph type = SCS Runoff
 Storm frequency = 100 yrs
 Time interval = 3 min
 Drainage area = 0.136 ac
 Basin Slope = 2.1 %
 Tc method = LAG
 Total precip. = 8.16 in
 Storm duration = 24 hrs

Peak discharge = 0.574 cfs
 Time to peak = 12.10 hrs
 Hyd. volume = 1,910 cuft
 Curve number = 65.9
 Hydraulic length = 163 ft
 Time of conc. (Tc) = 7.60 min
 Distribution = Type III
 Shape factor = 484

P.D.B.-2 to Design Point B

Hyd. No. 7 -- 100 Year



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Hydraflow Hydrographs by Intelisolve v9.22

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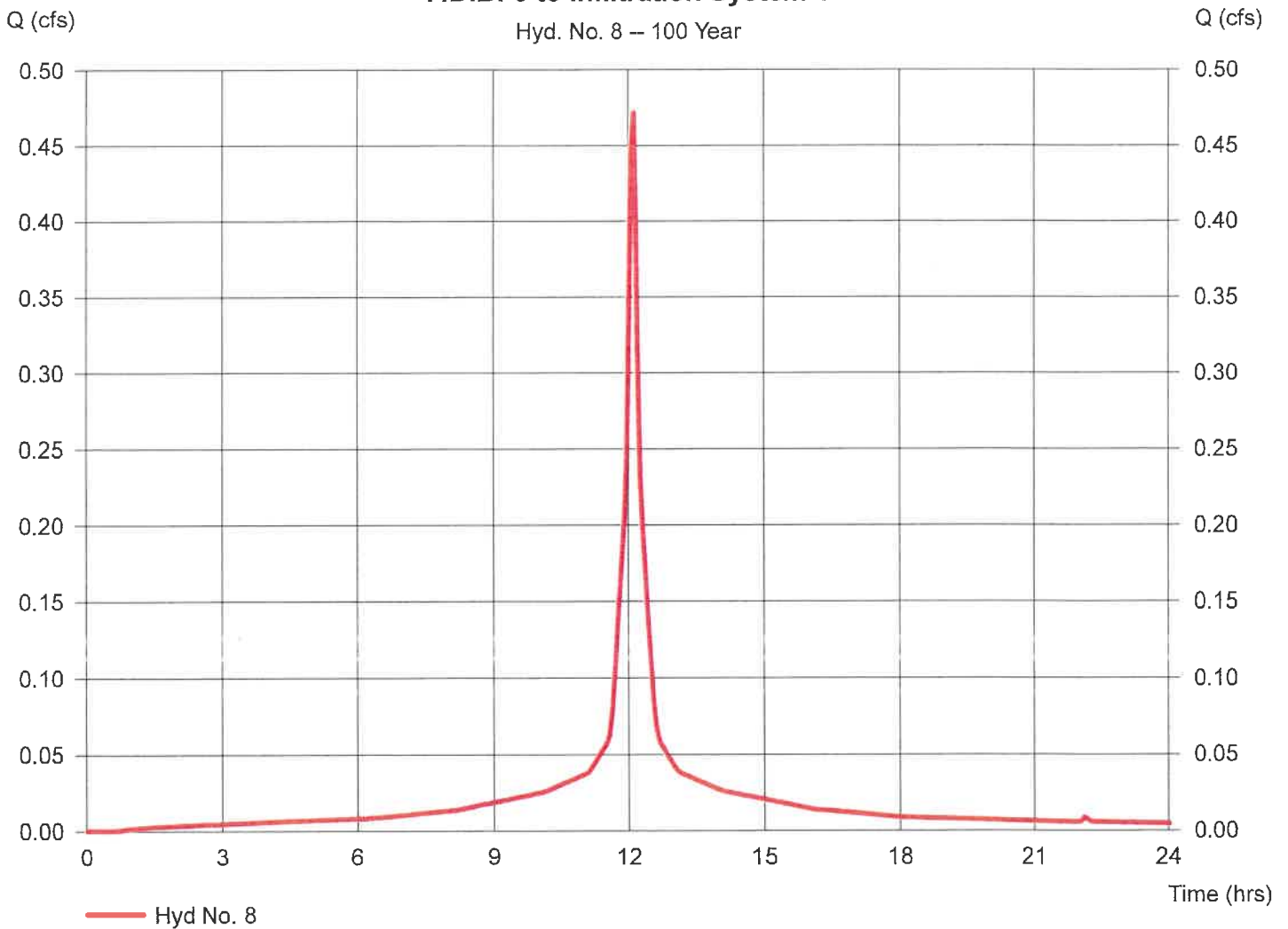
Hyd. No. 8

P.D.B.-3 to Infiltration System 1

Hydrograph type	= SCS Runoff	Peak discharge	= 0.472 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.10 hrs
Time interval	= 3 min	Hyd. volume	= 1,833 cuft
Drainage area	= 0.068 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 5.00 min
Total precip.	= 8.16 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

P.D.B.-3 to Infiltration System 1

Hyd. No. 8 -- 100 Year



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Hydraflow Hydrographs by Intelisolve v9.22

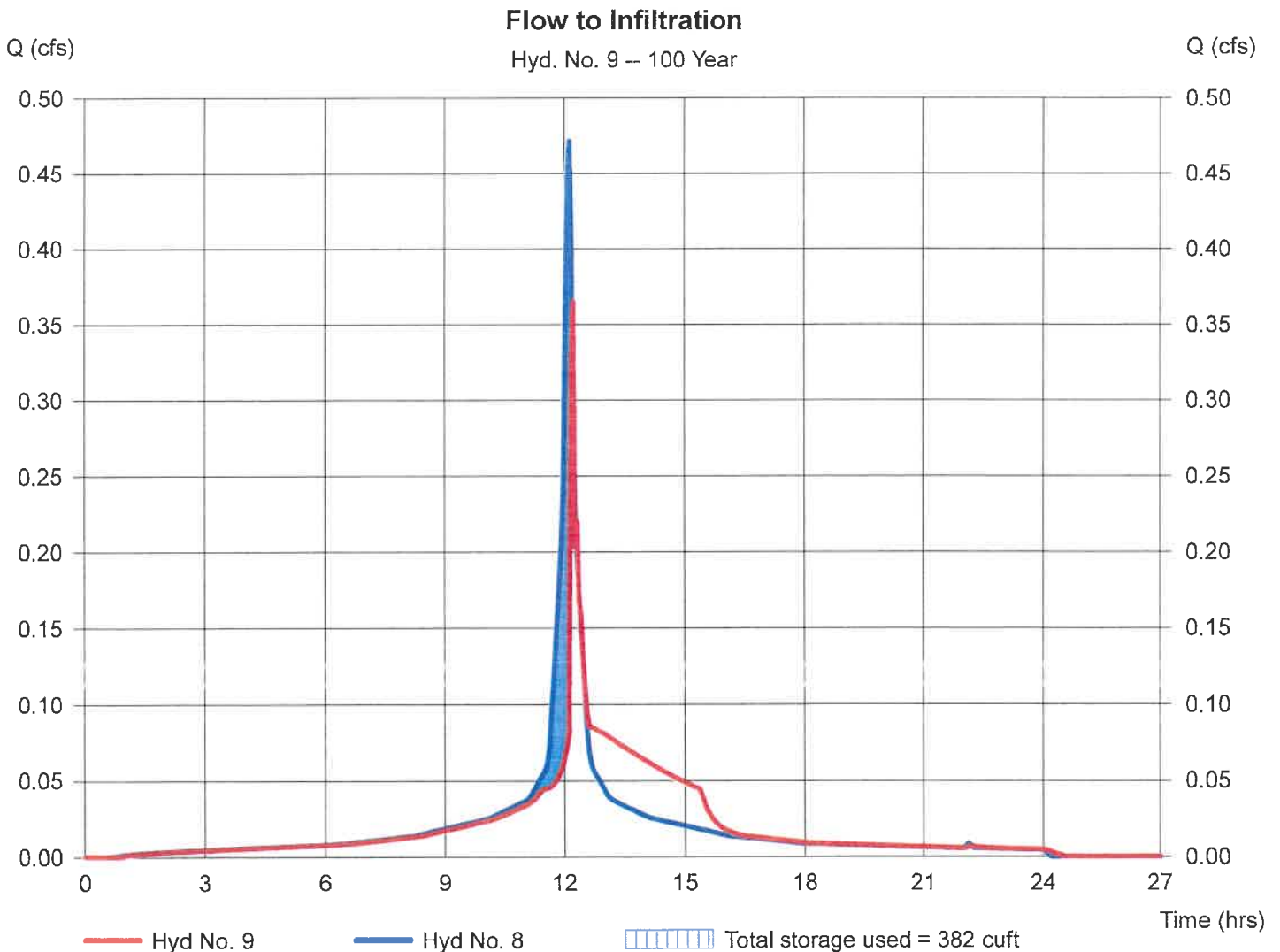
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Hyd. No. 9

Flow to Infiltration

Hydrograph type	= Reservoir	Peak discharge	= 0.365 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.20 hrs
Time interval	= 3 min	Hyd. volume	= 1,832 cuft
Inflow hyd. No.	= 8 - P.D.B.-3 to Infiltration System 1	Max. Elevation	= 141.88 ft
Reservoir name	= Infiltration System 1	Max. Storage	= 382 cuft

Storage Indication method used. Outflow includes exfiltration.



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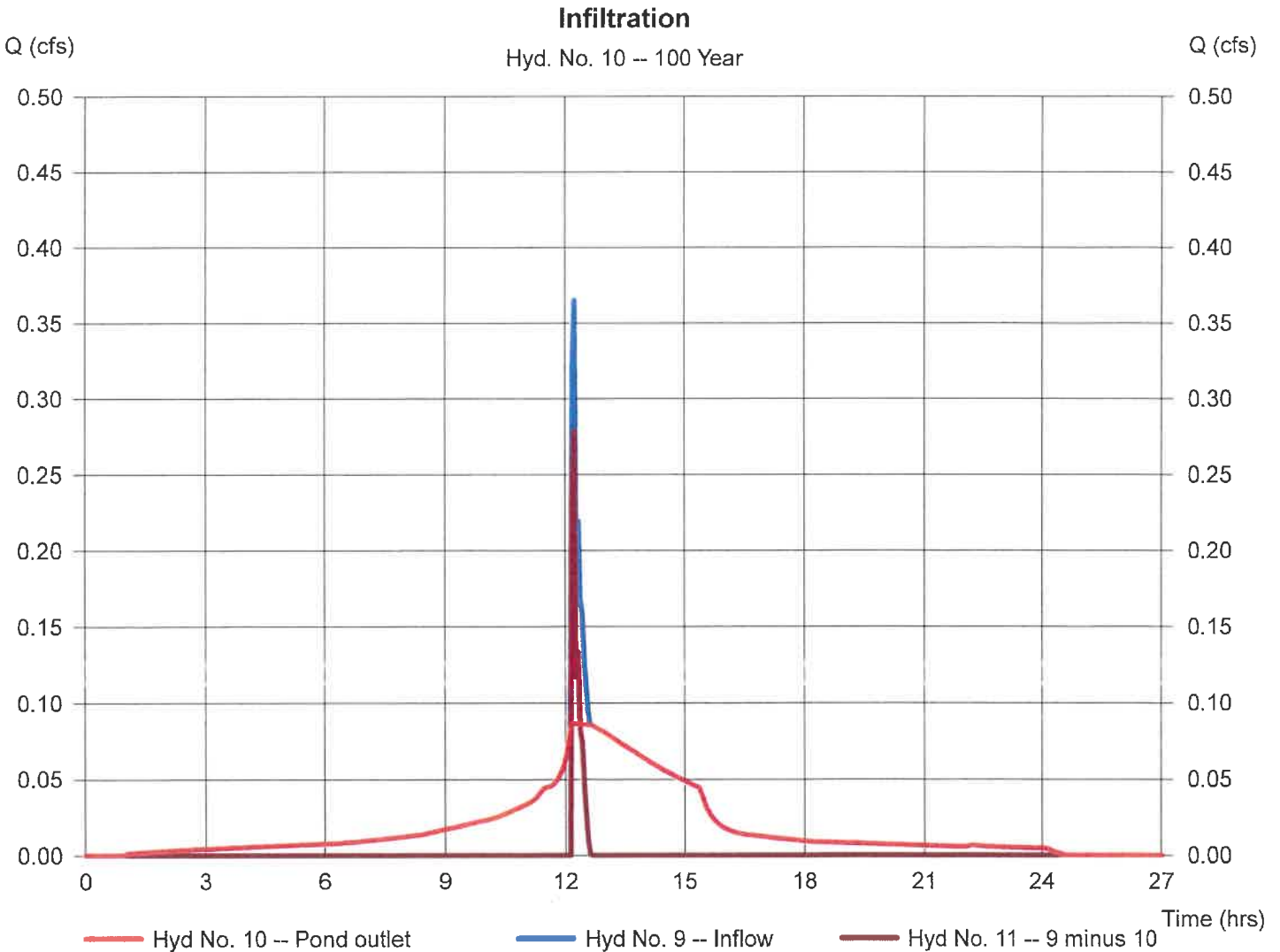
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Hyd. No. 10

Infiltration

Hydrograph type = Diversion1
 Storm frequency = 100 yrs
 Time interval = 3 min
 Inflow hydrograph = 9 - Flow to Infiltration
 Diversion method = Pond - Infiltration System 1

Peak discharge = 0.087 cfs
 Time to peak = 12.20 hrs
 Hyd. volume = 1,652 cuft
 2nd diverted hyd. = 11
 Pond structure = Exfiltration



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Hydraflow Hydrographs by Intelisolve v9.22

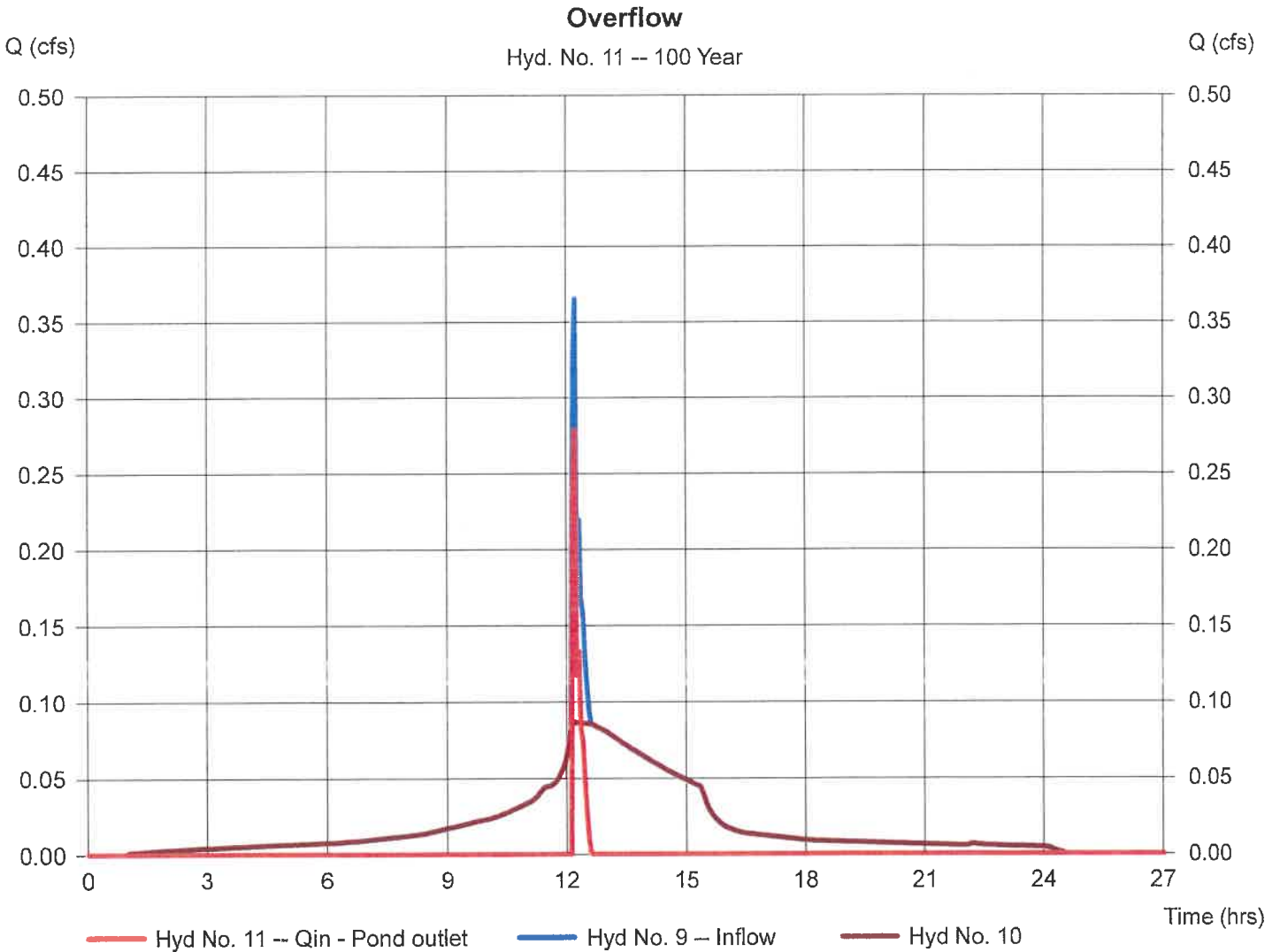
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Hyd. No. 11

Overflow

Hydrograph type = Diversion2
 Storm frequency = 100 yrs
 Time interval = 3 min
 Inflow hydrograph = 9 - Flow to Infiltration
 Diversion method = Pond - Infiltration System 1

Peak discharge = 0.279 cfs
 Time to peak = 12.20 hrs
 Hyd. volume = 180 cuft
 2nd diverted hyd. = 10
 Pond structure = Exfiltration



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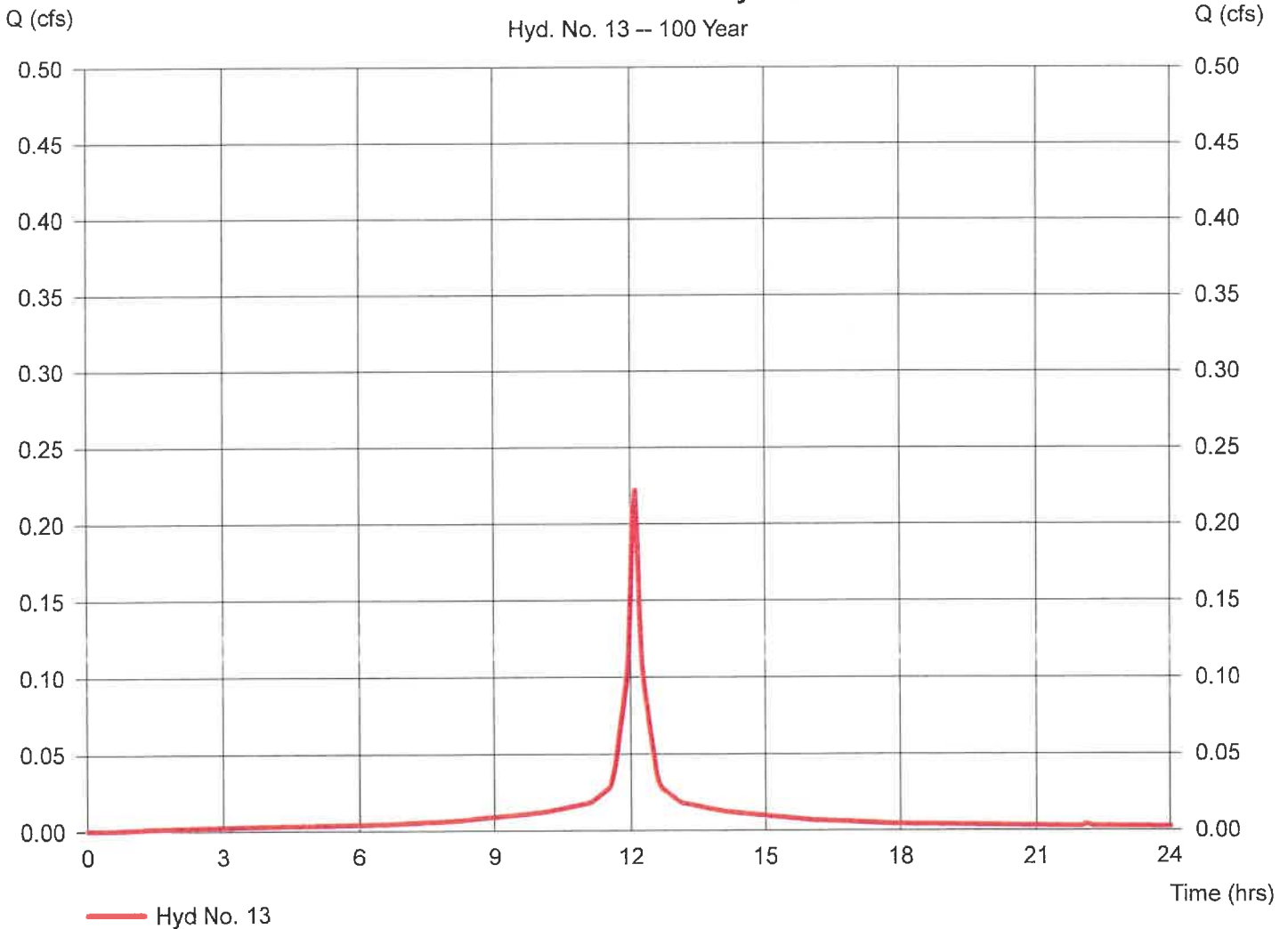
Hyd. No. 13

P.D.B.-4 Tto Infiltration System 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.222 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.10 hrs
Time interval	= 3 min	Hyd. volume	= 862 cuft
Drainage area	= 0.032 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 5.00 min
Total precip.	= 8.16 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

P.D.B.-4 Tto Infiltration System 2

Hyd. No. 13 -- 100 Year



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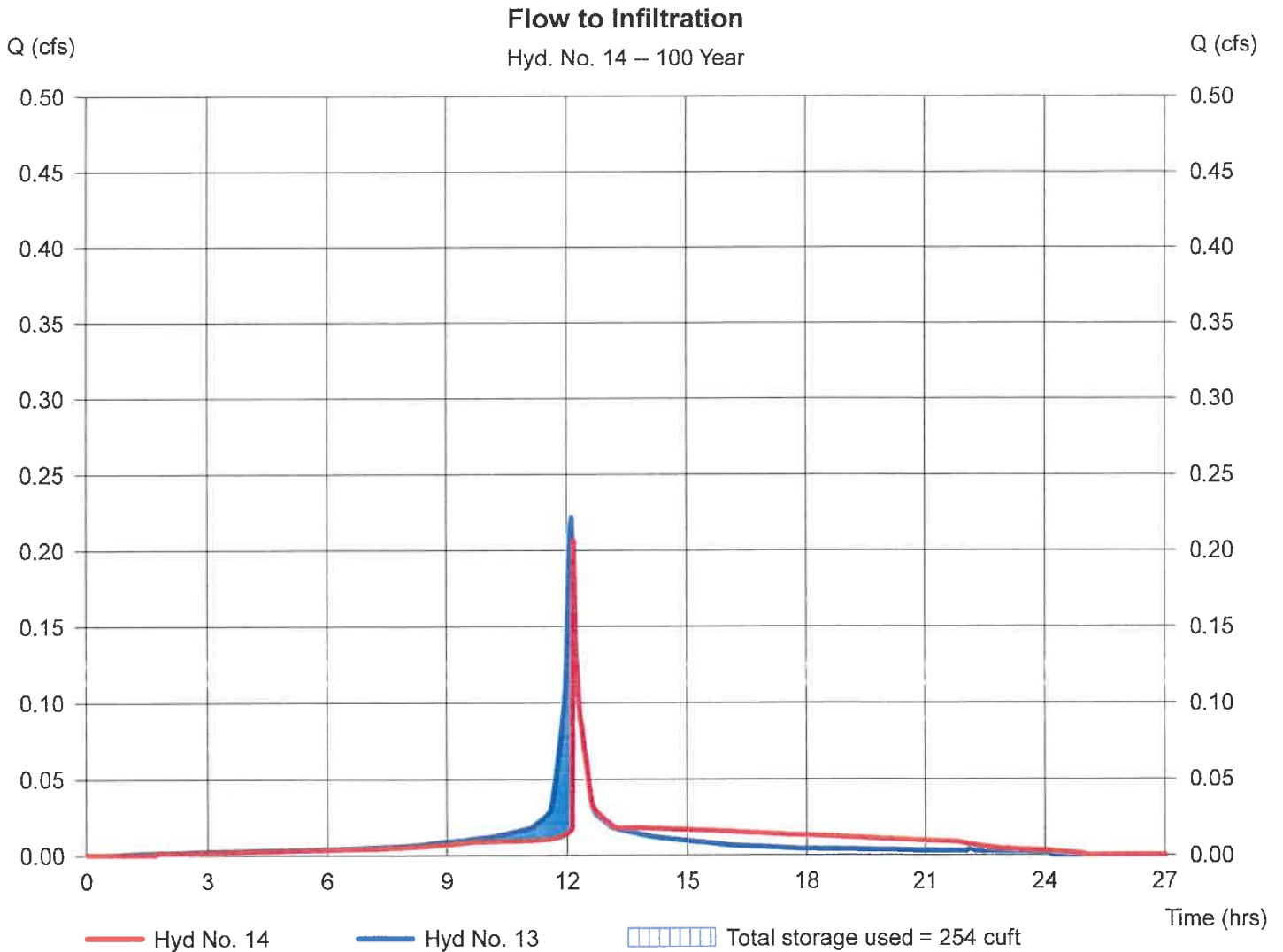
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Hyd. No. 14

Flow to Infiltration

Hydrograph type	= Reservoir	Peak discharge	= 0.206 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.15 hrs
Time interval	= 3 min	Hyd. volume	= 860 cuft
Inflow hyd. No.	= 13 - P.D.B.-4 Tto Infiltration System 2	Max. Elevation	= 140.83 ft
Reservoir name	= Infiltration System 2	Max. Storage	= 254 cuft

Storage Indication method used. Outflow includes exfiltration.



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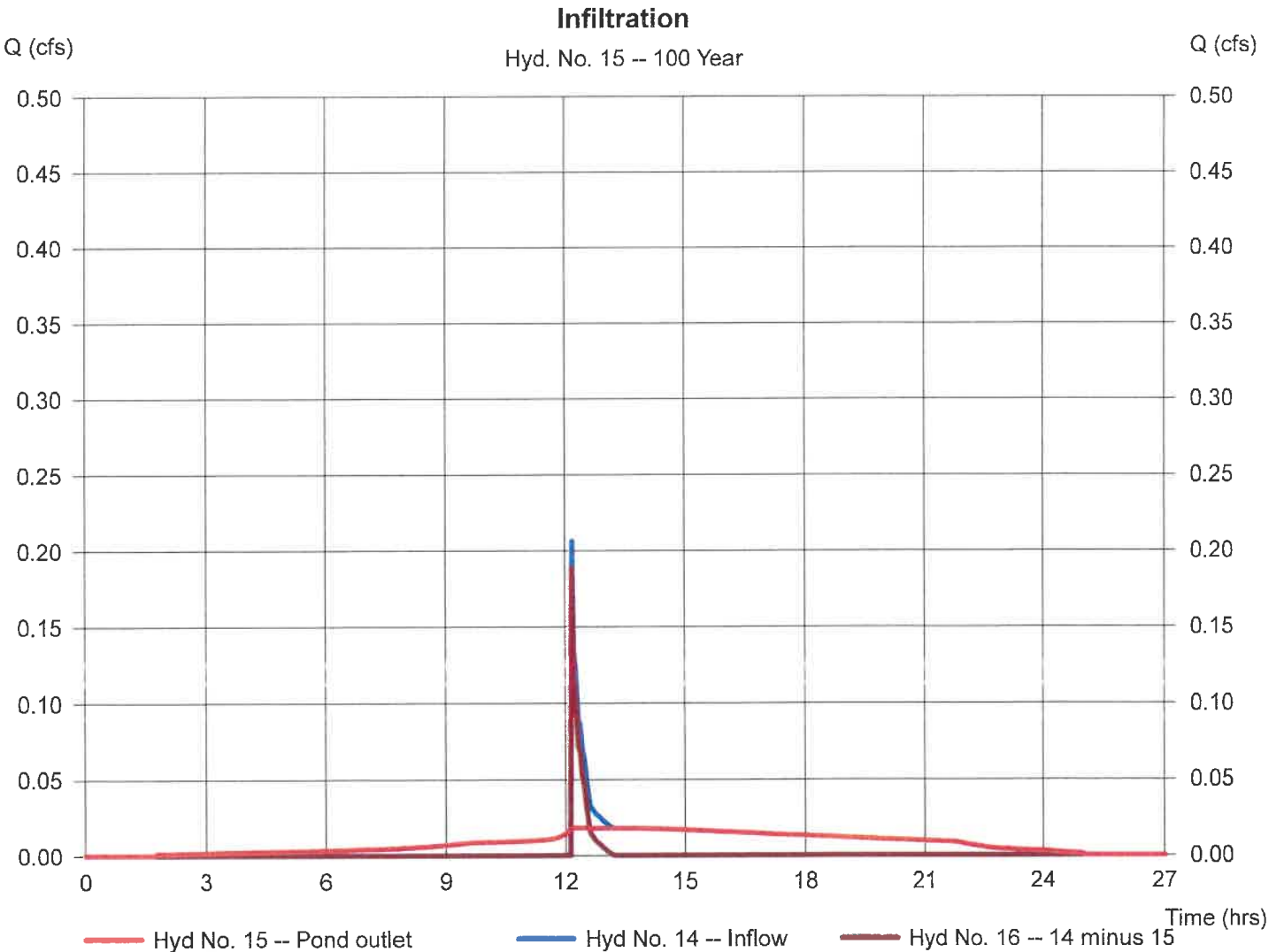
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Hyd. No. 15

Infiltration

Hydrograph type = Diversion1
 Storm frequency = 100 yrs
 Time interval = 3 min
 Inflow hydrograph = 14 - Flow to Infiltration
 Diversion method = Pond - Infiltration System 2

Peak discharge = 0.018 cfs
 Time to peak = 12.15 hrs
 Hyd. volume = 719 cuft
 2nd diverted hyd. = 16
 Pond structure = Exfiltration



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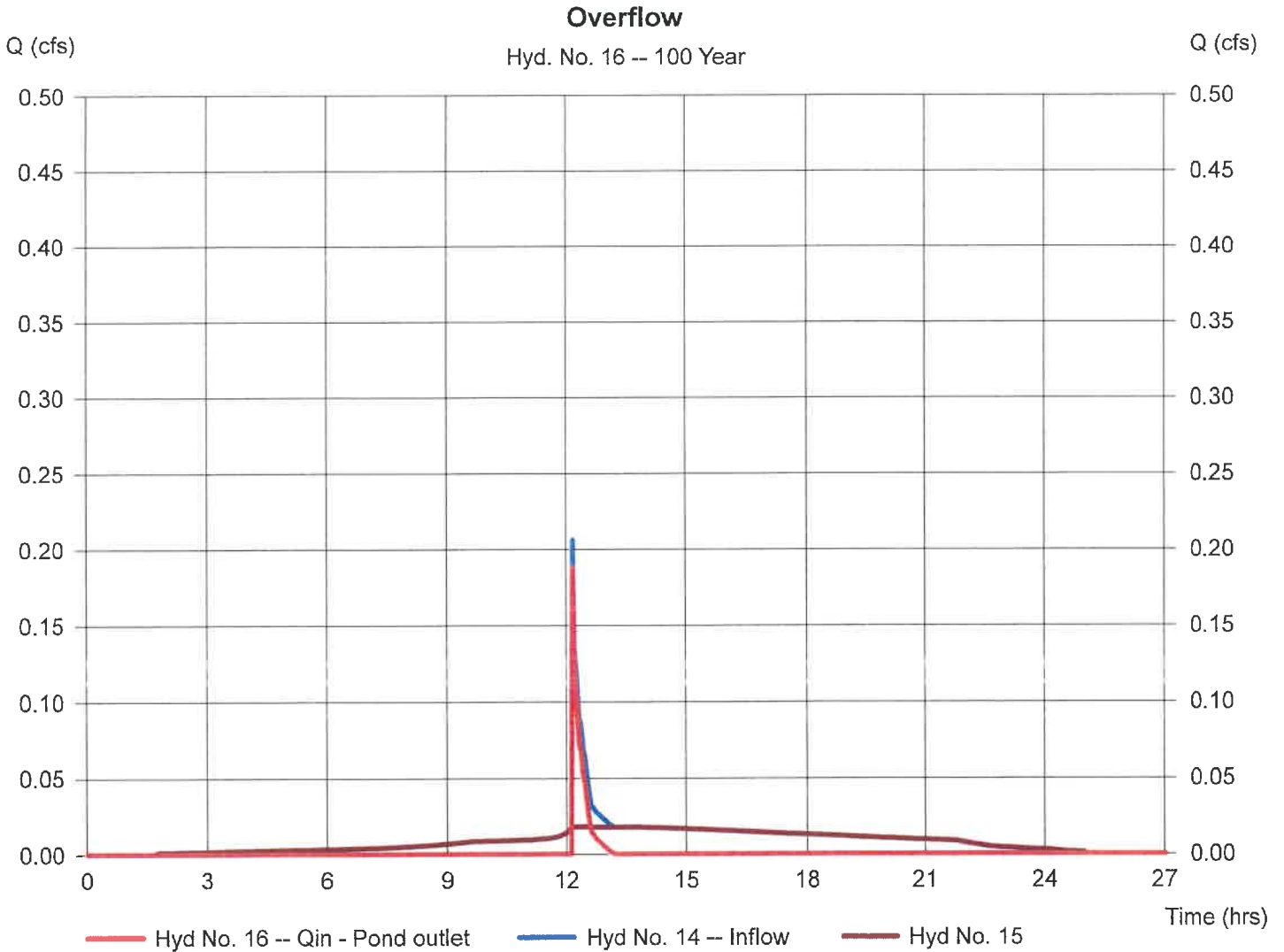
Hydraflow Hydrographs by Intelisolve v9.22

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Hyd. No. 16

Overflow

Hydrograph type	= Diversion2	Peak discharge	= 0.188 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.15 hrs
Time interval	= 3 min	Hyd. volume	= 140 cuft
Inflow hydrograph	= 14 - Flow to Infiltration	2nd diverted hyd.	= 15
Diversion method	= Pond - Infiltration System 2	Pond structure	= Exfiltration



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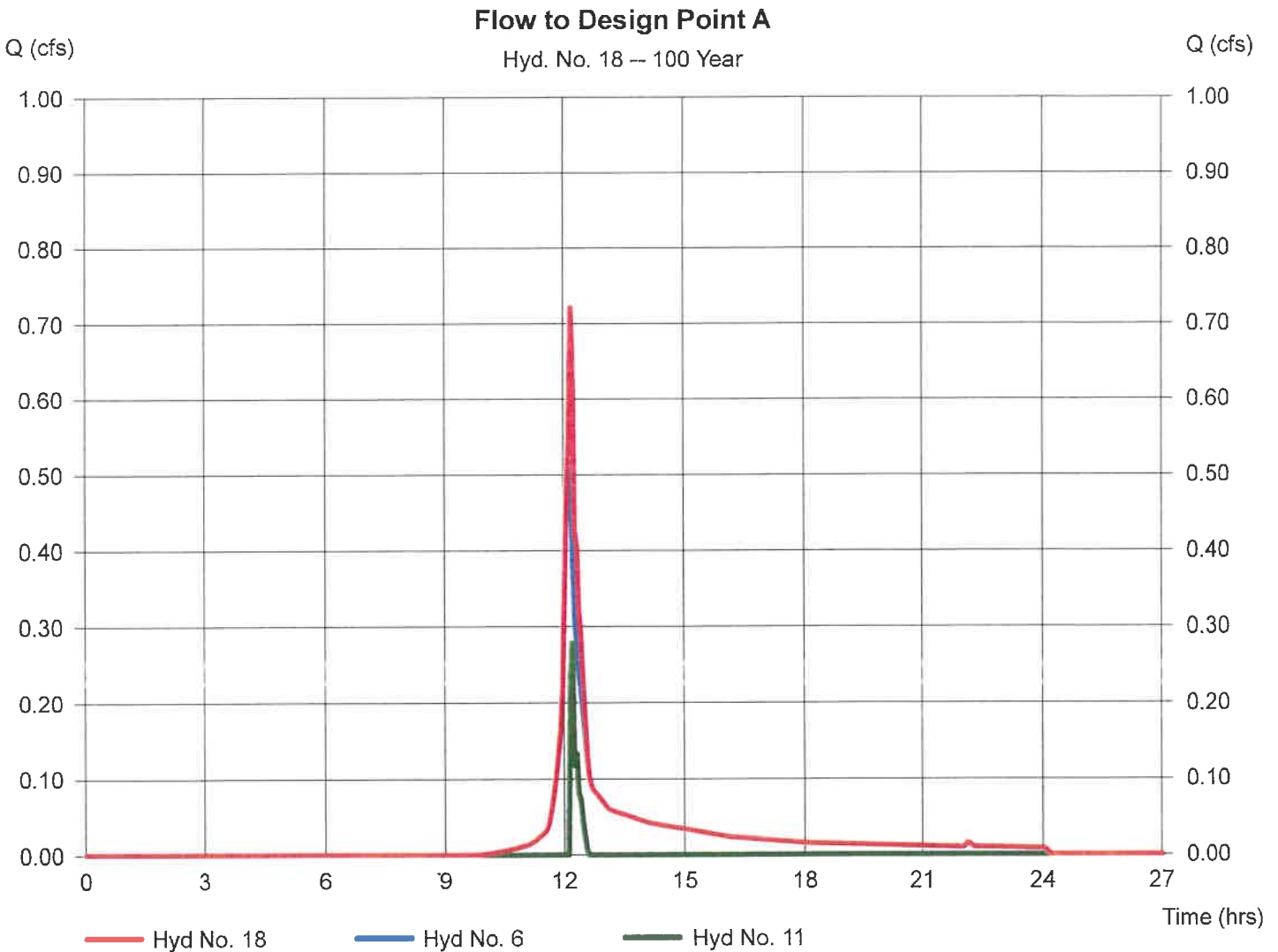
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Hyd. No. 18

Flow to Design Point A

Hydrograph type = Combine
Storm frequency = 100 yrs
Time interval = 3 min
Inflow hyds. = 6, 11

Peak discharge = 0.721 cfs
Time to peak = 12.15 hrs
Hyd. volume = 2,010 cuft
Contrib. drain. area = 0.166 ac



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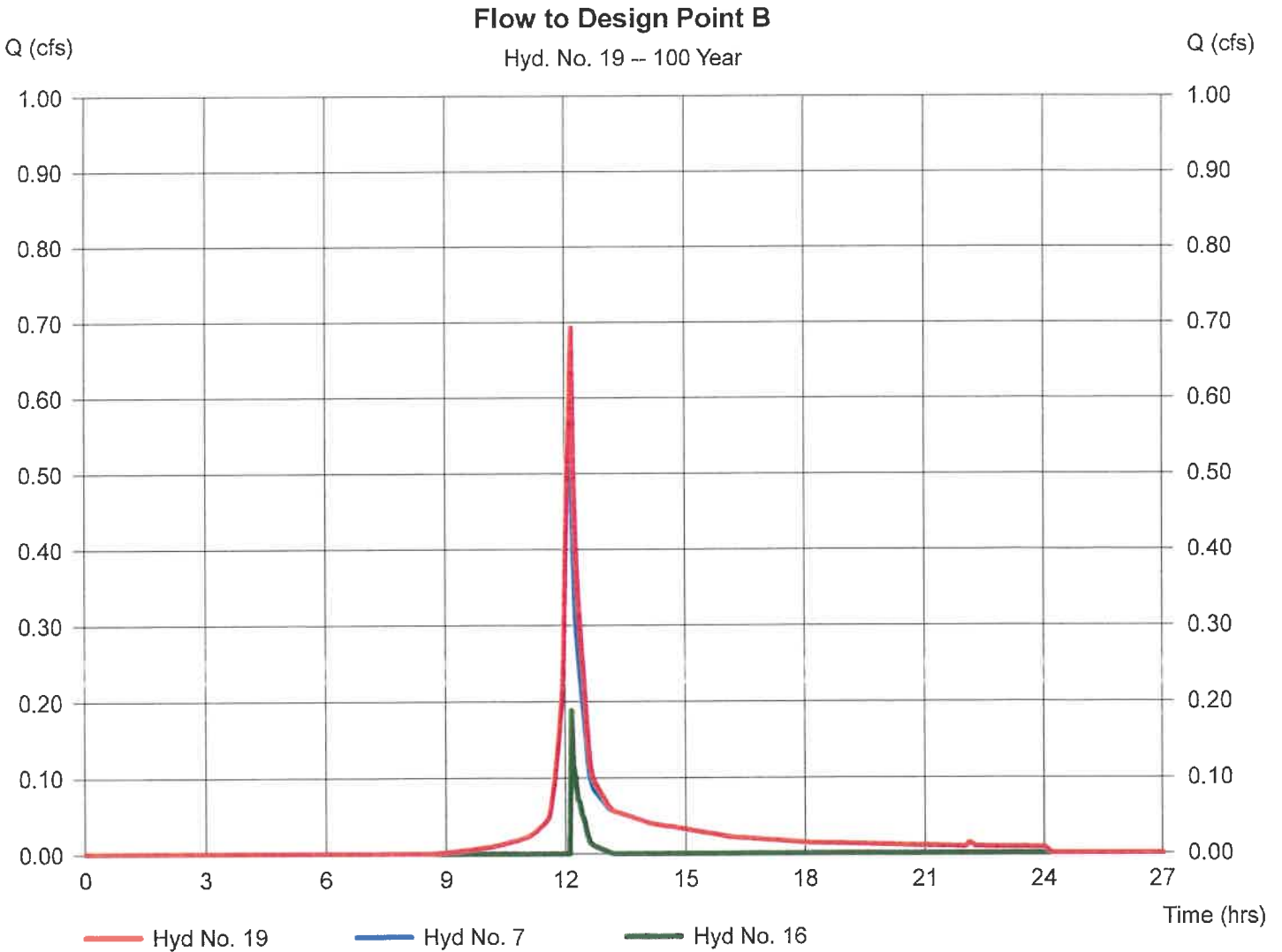
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Hyd. No. 19

Flow to Design Point B

Hydrograph type = Combine
 Storm frequency = 100 yrs
 Time interval = 3 min
 Inflow hyds. = 7, 16

Peak discharge = 0.693 cfs
 Time to peak = 12.15 hrs
 Hyd. volume = 2,050 cuft
 Contrib. drain. area = 0.136 ac



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Hyd. No. 20

Total Proposed Flow

Hydrograph type = Combine
Storm frequency = 100 yrs
Time interval = 3 min
Inflow hyds. = 6, 7, 11, 16

Peak discharge = 1.414 cfs
Time to peak = 12.15 hrs
Hyd. volume = 4,060 cuft
Contrib. drain. area = 0.302 ac

