

# Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

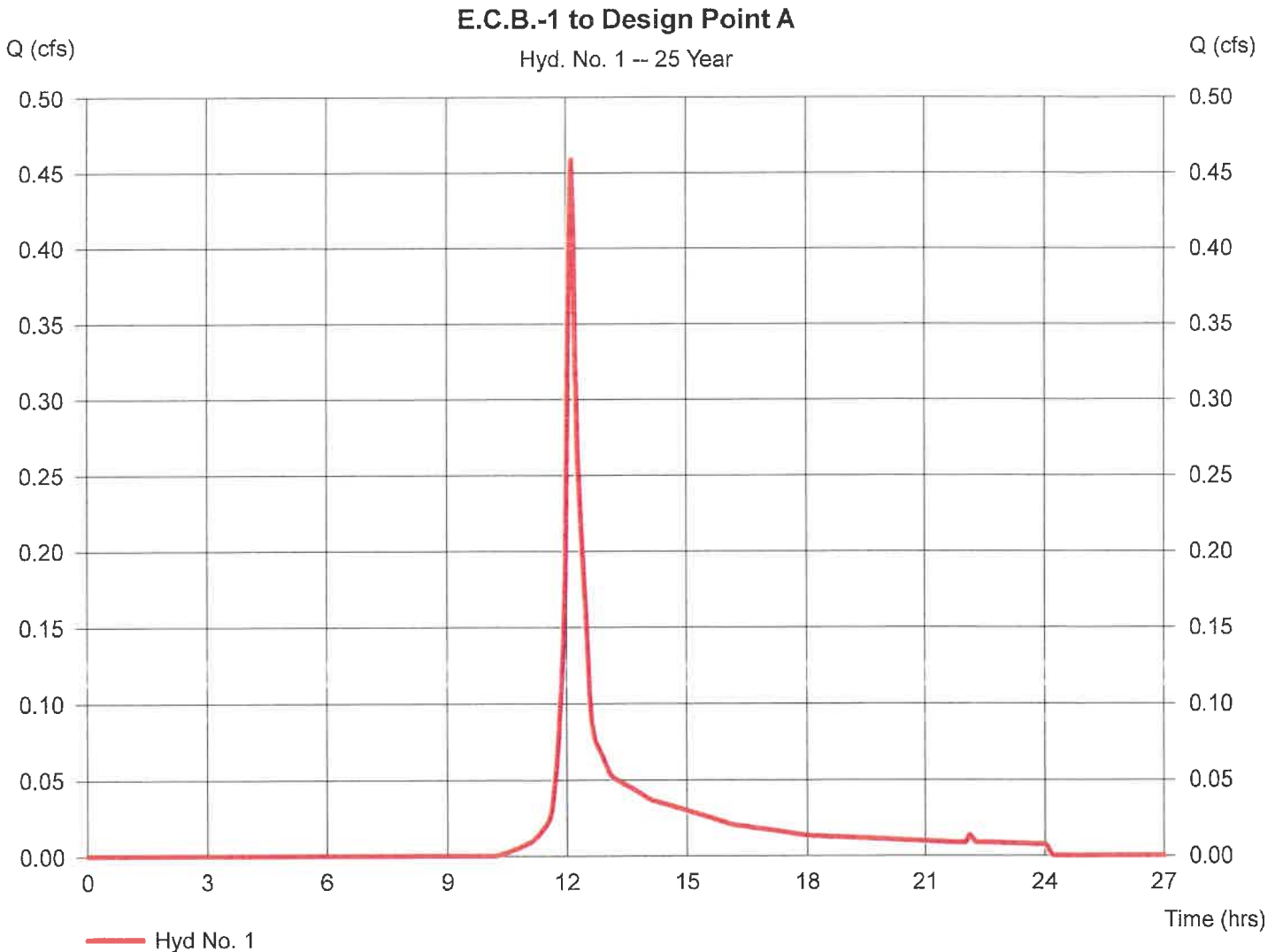
Tuesday, Oct 13, 2020

## Hyd. No. 1

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

Hydrograph type = SCS Runoff  
 Storm frequency = 25 yrs  
 Time interval = 3 min  
 Drainage area = 0.198 ac  
 Basin Slope = 2.4 %  
 Tc method = LAG  
 Total precip. = 6.36 in  
 Storm duration = 24 hrs

Peak discharge = 0.459 cfs  
 Time to peak = 12.10 hrs  
 Hyd. volume = 1,571 cuft  
 Curve number = 61.9  
 Hydraulic length = 143 ft  
 Time of conc. (Tc) = 7.10 min  
 Distribution = Type III  
 Shape factor = 484



# Hydrograph Report

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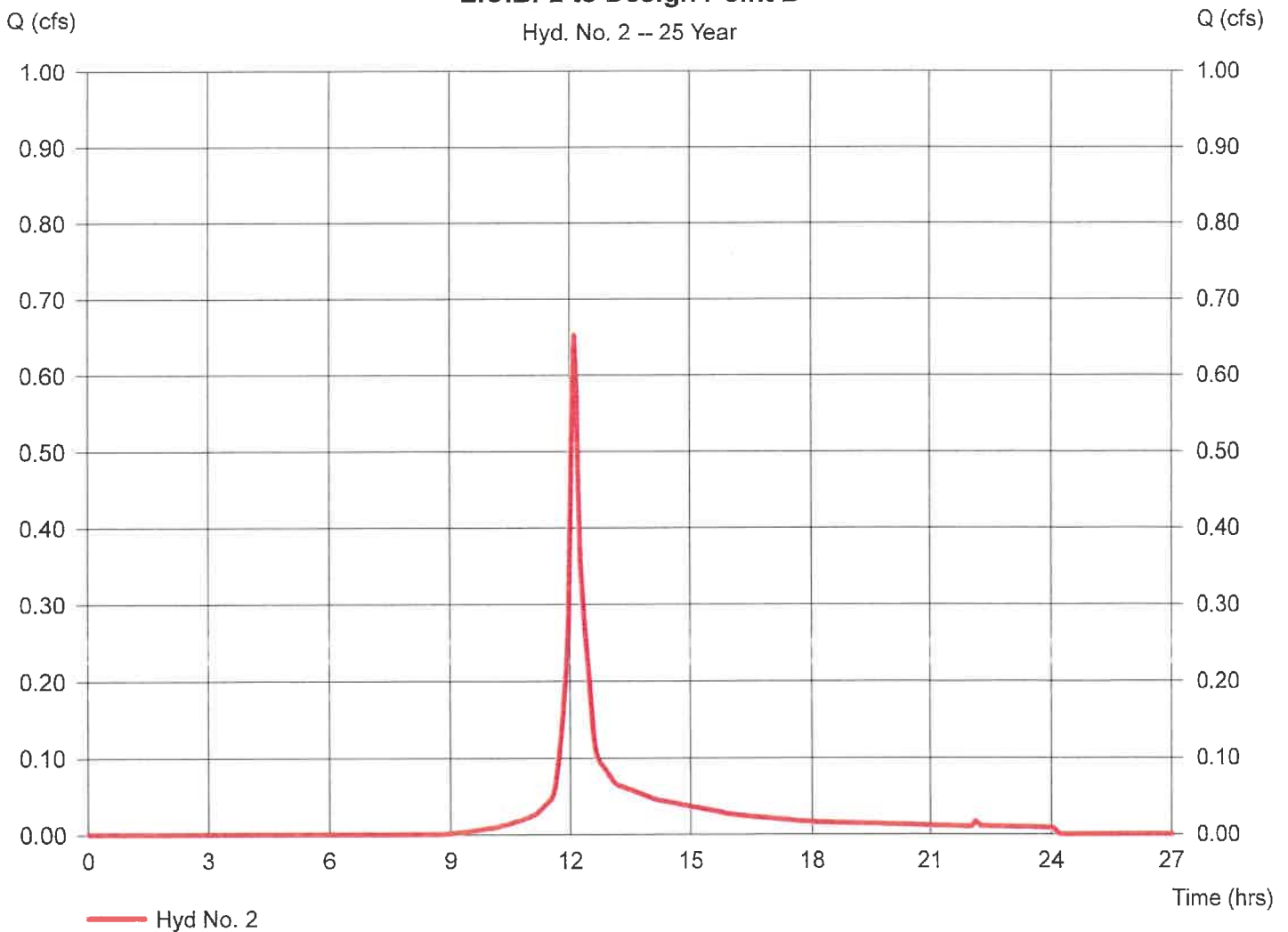
## Hyd. No. 2

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

Hydrograph type	= SCS Runoff	Peak discharge	= 0.653 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.10 hrs
Time interval	= 3 min	Hyd. volume	= 2,175 cuft
Drainage area	= 0.204 ac	Curve number	= 70.4
Basin Slope	= 2.5 %	Hydraulic length	= 145 ft
Tc method	= LAG	Time of conc. (Tc)	= 5.60 min
Total precip.	= 6.36 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

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

Hyd. No. 2 -- 25 Year



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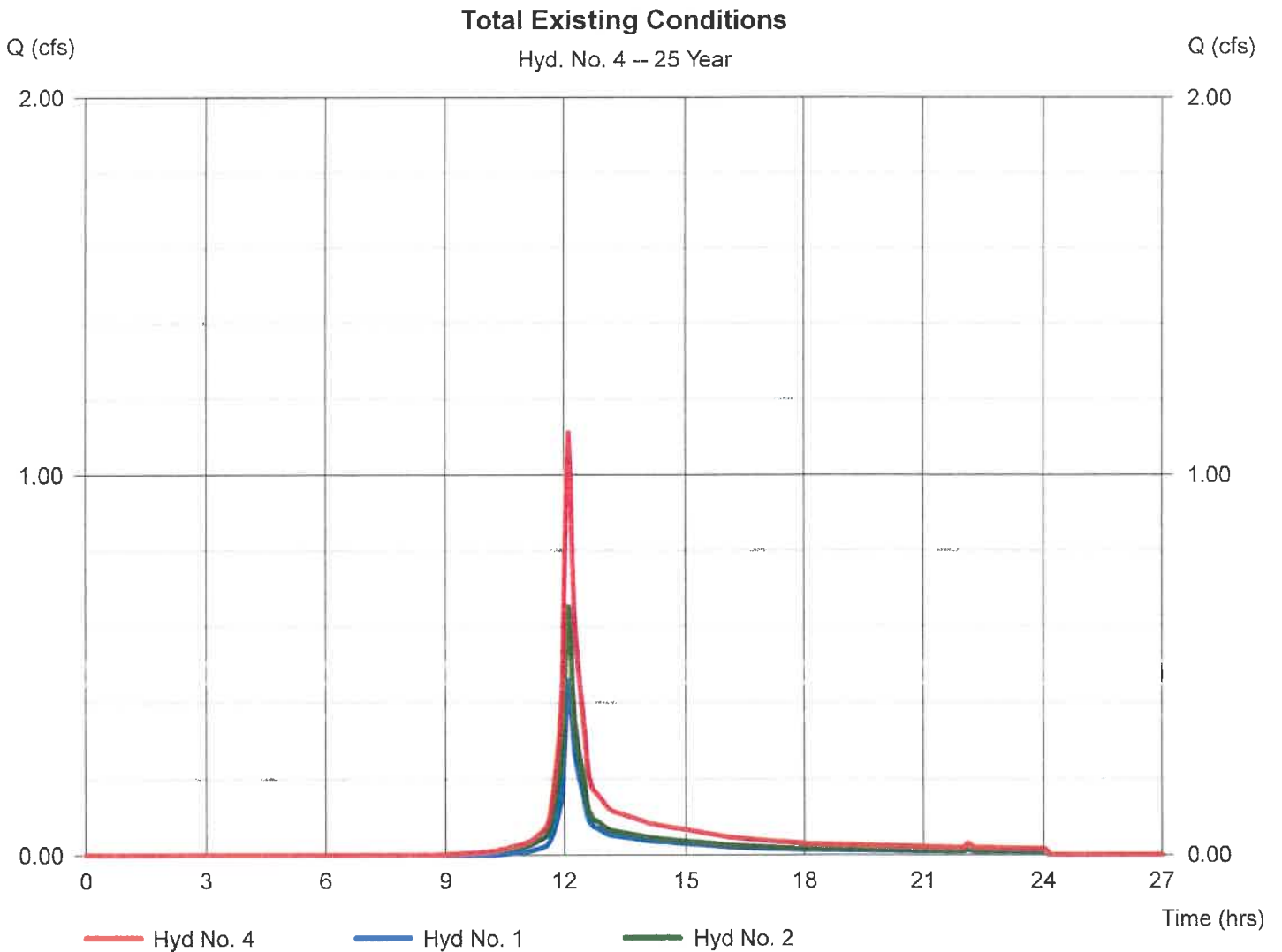
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## Hyd. No. 4

### Total Existing Conditions

Hydrograph type = Combine  
Storm frequency = 25 yrs  
Time interval = 3 min  
Inflow hyds. = 1, 2

Peak discharge = 1.112 cfs  
Time to peak = 12.10 hrs  
Hyd. volume = 3,746 cuft  
Contrib. drain. area = 0.402 ac



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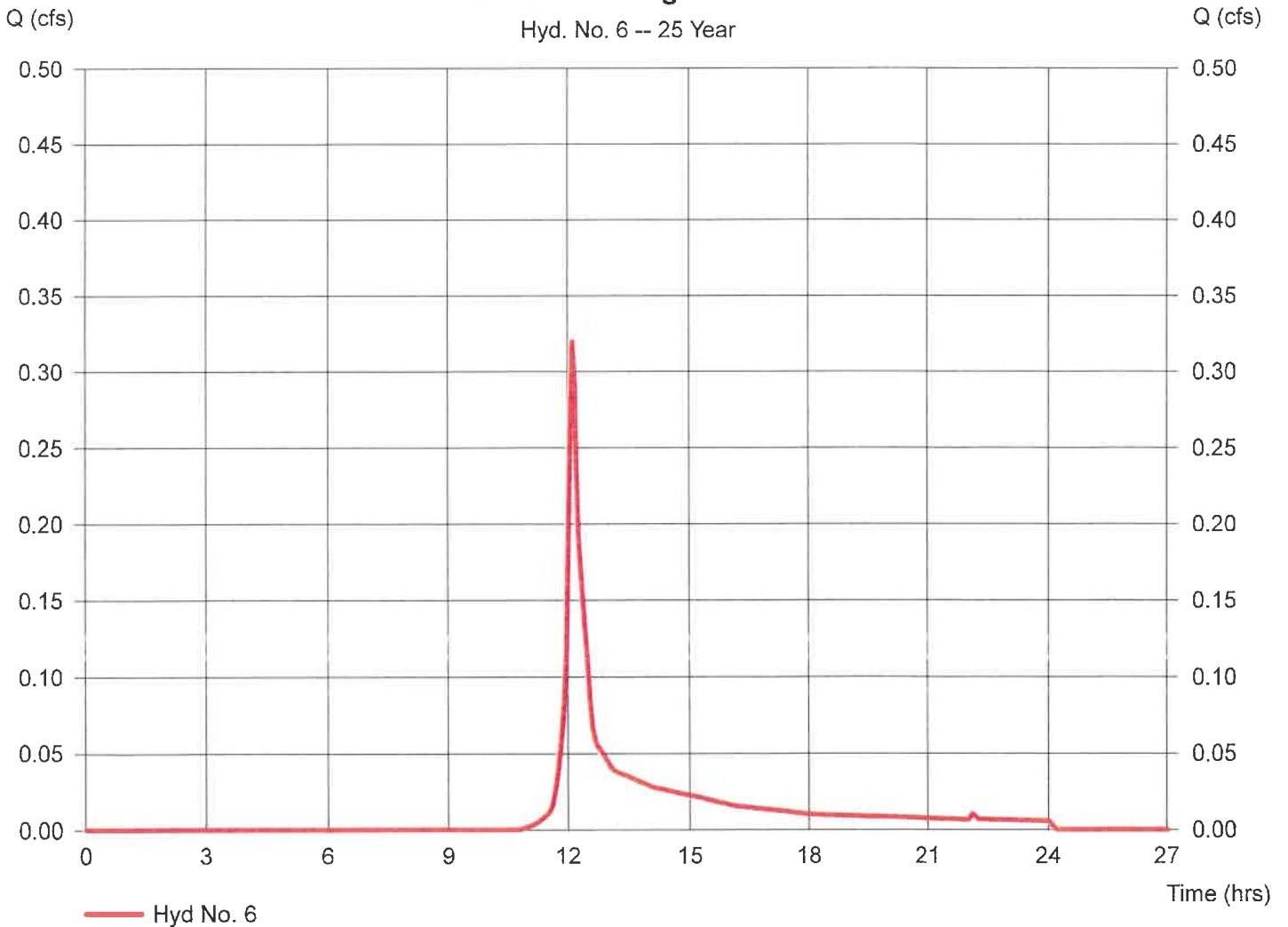
## Hyd. No. 6

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

Hydrograph type	= SCS Runoff	Peak discharge	= 0.320 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.10 hrs
Time interval	= 3 min	Hyd. volume	= 1,126 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.	= 6.36 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

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

Hyd. No. 6 -- 25 Year



# Hydrograph Report

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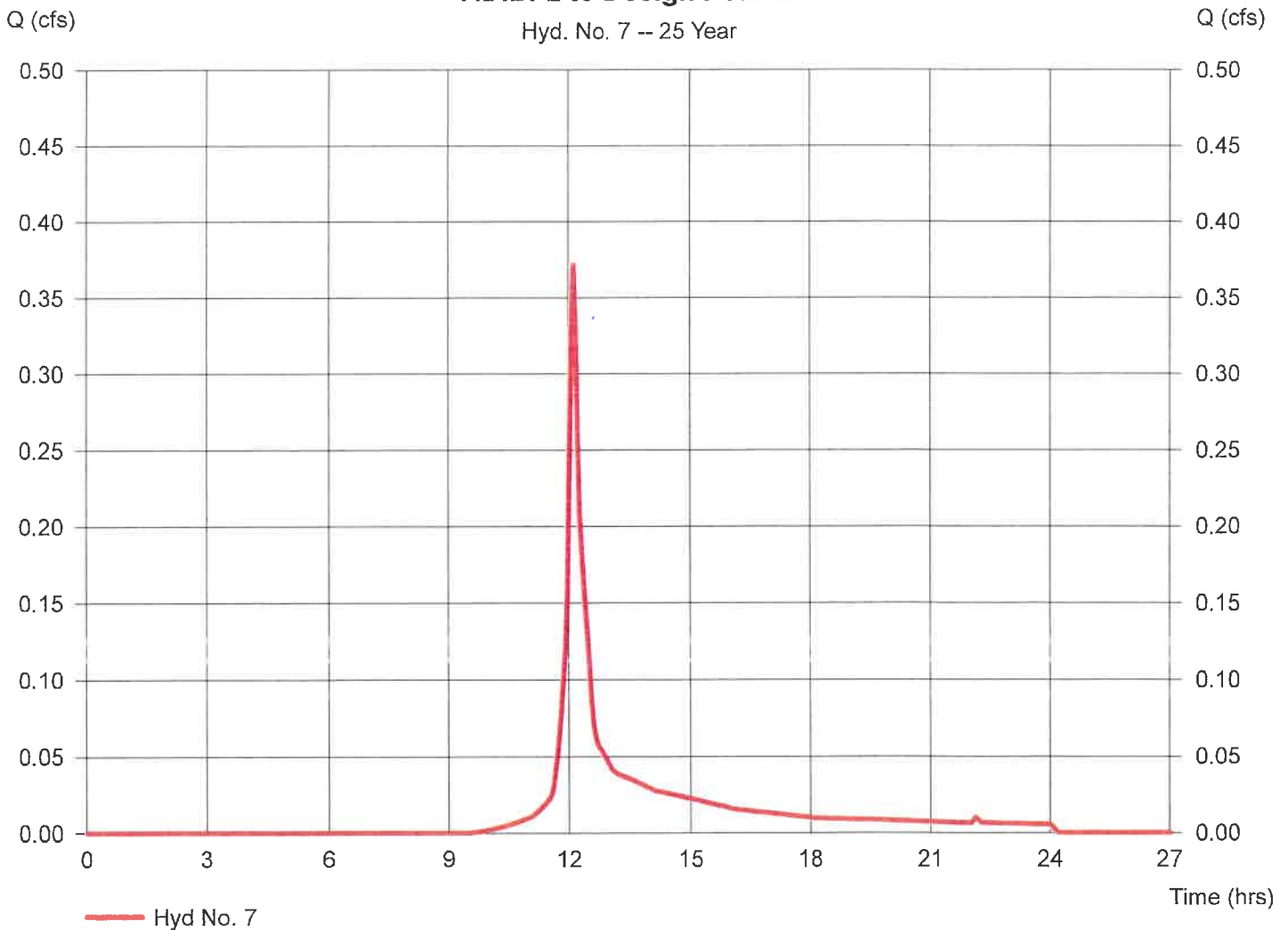
## Hyd. No. 7

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

Hydrograph type	= SCS Runoff	Peak discharge	= 0.372 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.10 hrs
Time interval	= 3 min	Hyd. volume	= 1,250 cuft
Drainage area	= 0.136 ac	Curve number	= 65.9
Basin Slope	= 2.1 %	Hydraulic length	= 163 ft
Tc method	= LAG	Time of conc. (Tc)	= 7.60 min
Total precip.	= 6.36 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

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

Hyd. No. 7 -- 25 Year



# Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

Tuesday, Oct 13, 2020

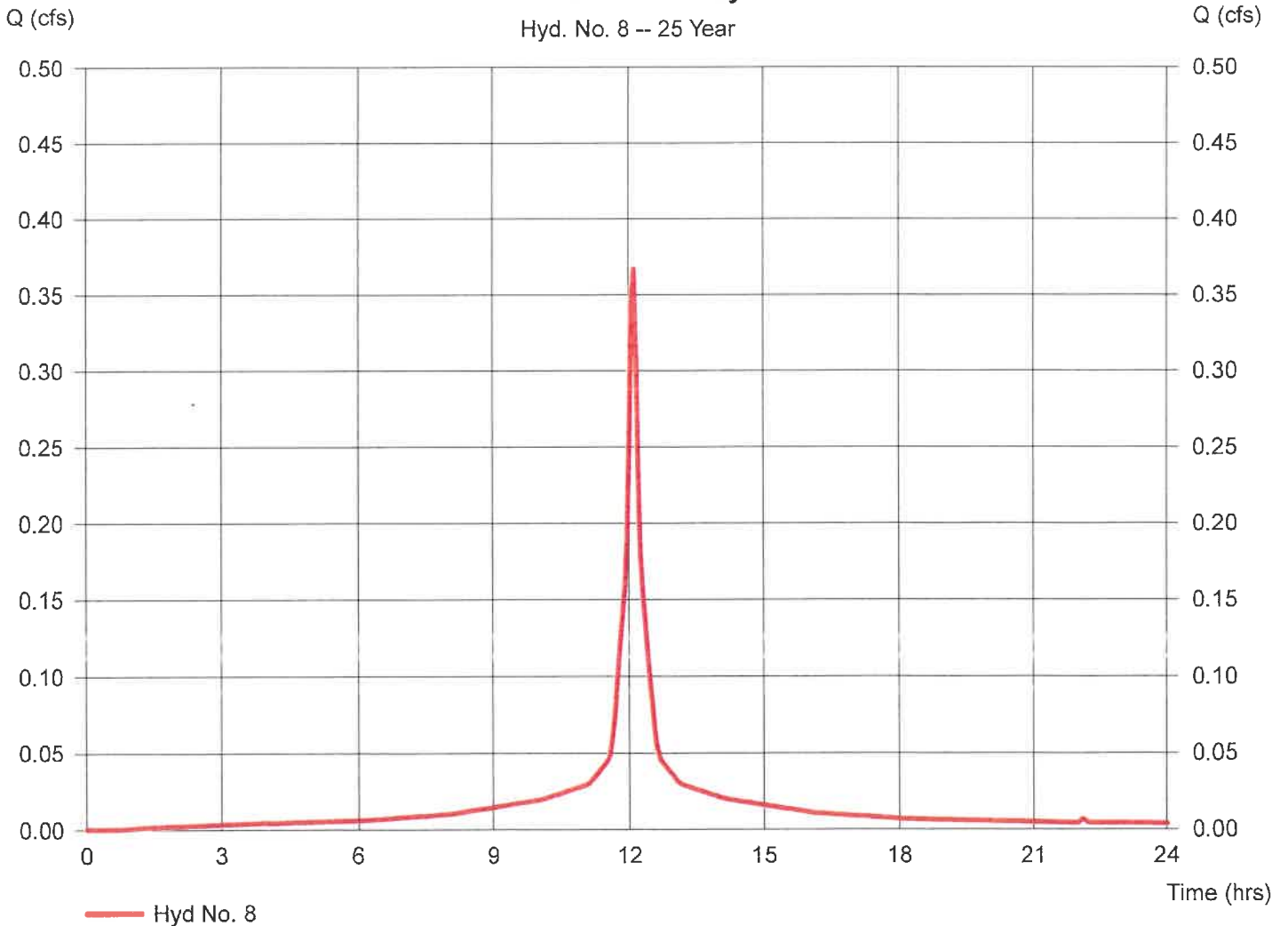
## Hyd. No. 8

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

Hydrograph type	= SCS Runoff	Peak discharge	= 0.367 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.10 hrs
Time interval	= 3 min	Hyd. volume	= 1,417 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.	= 6.36 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

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

Hyd. No. 8 -- 25 Year



# Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

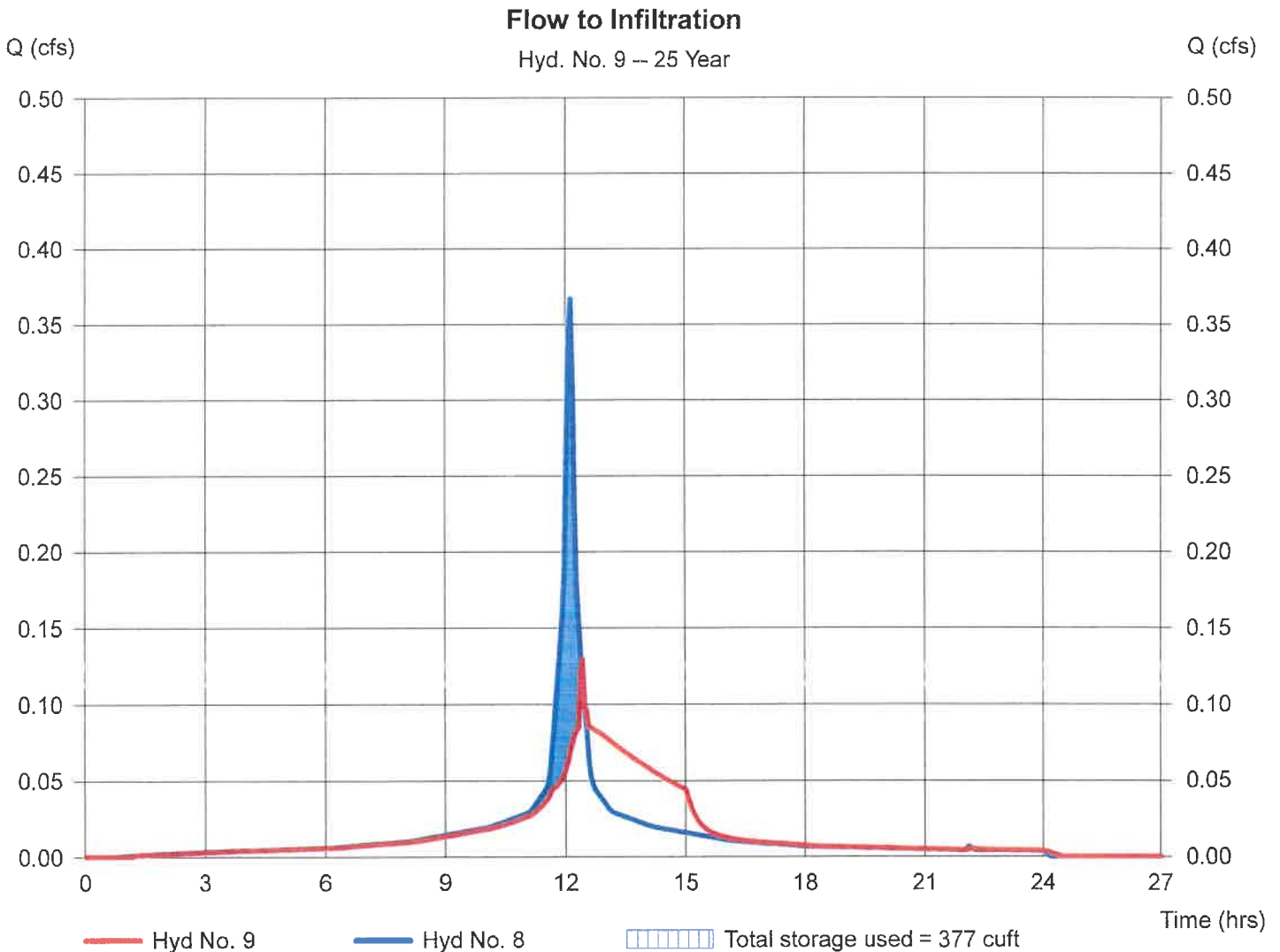
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## Hyd. No. 9

Flow to Infiltration

Hydrograph type	= Reservoir	Peak discharge	= 0.129 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.40 hrs
Time interval	= 3 min	Hyd. volume	= 1,416 cuft
Inflow hyd. No.	= 8 - P.D.B.-3 to Infiltration System 1	Max. Elevation	= 141.78 ft
Reservoir name	= Infiltration System 1	Max. Storage	= 377 cuft

Storage Indication method used. Outflow includes exfiltration.



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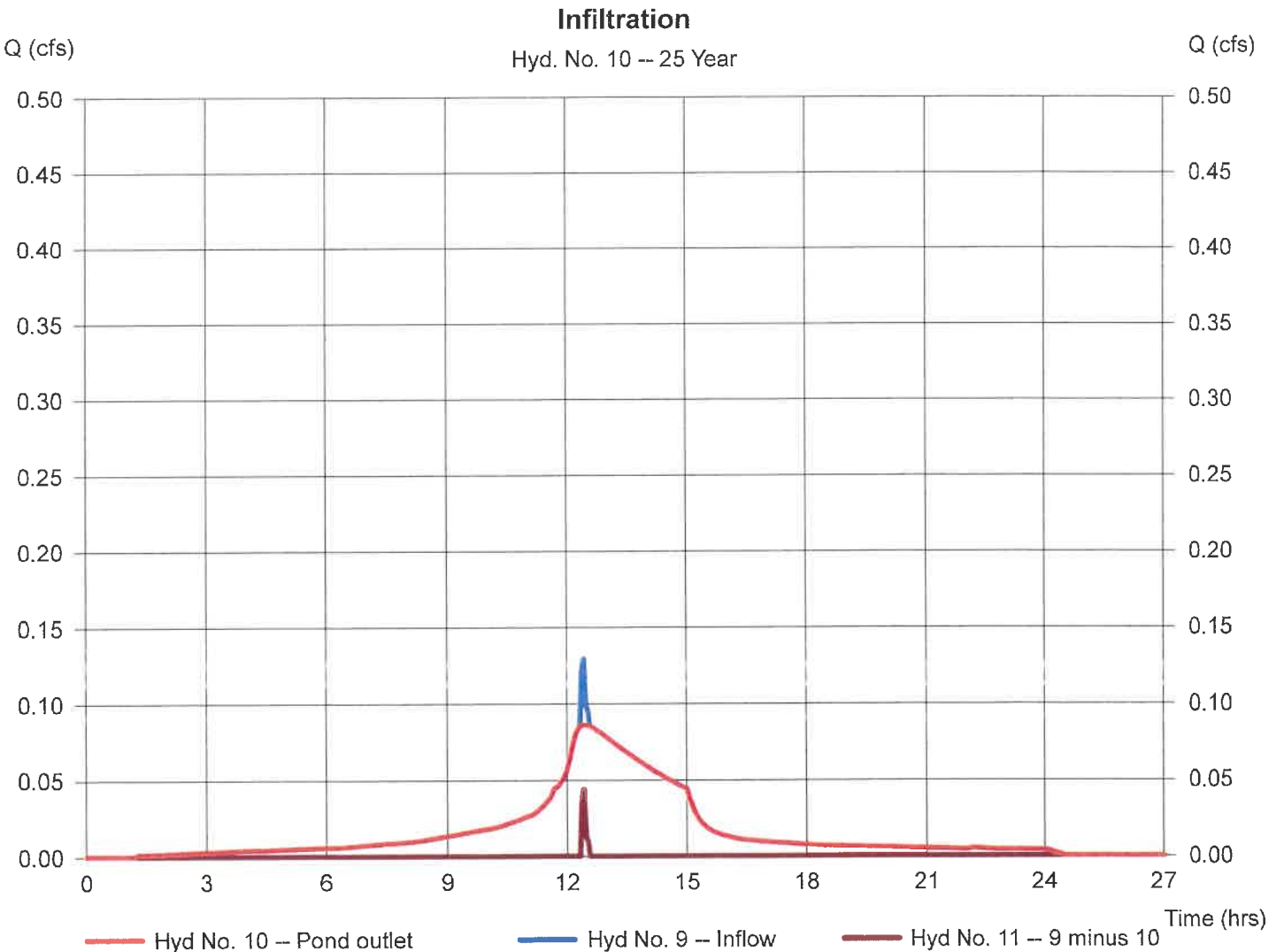
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## Hyd. No. 10

### Infiltration

Hydrograph type = Diversion1  
 Storm frequency = 25 yrs  
 Time interval = 3 min  
 Inflow hydrograph = 9 - Flow to Infiltration  
 Diversion method = Pond - Infiltration System 1

Peak discharge = 0.086 cfs  
 Time to peak = 12.40 hrs  
 Hyd. volume = 1,398 cuft  
 2nd diverted hyd. = 11  
 Pond structure = Exfiltration





# Hydrograph Report

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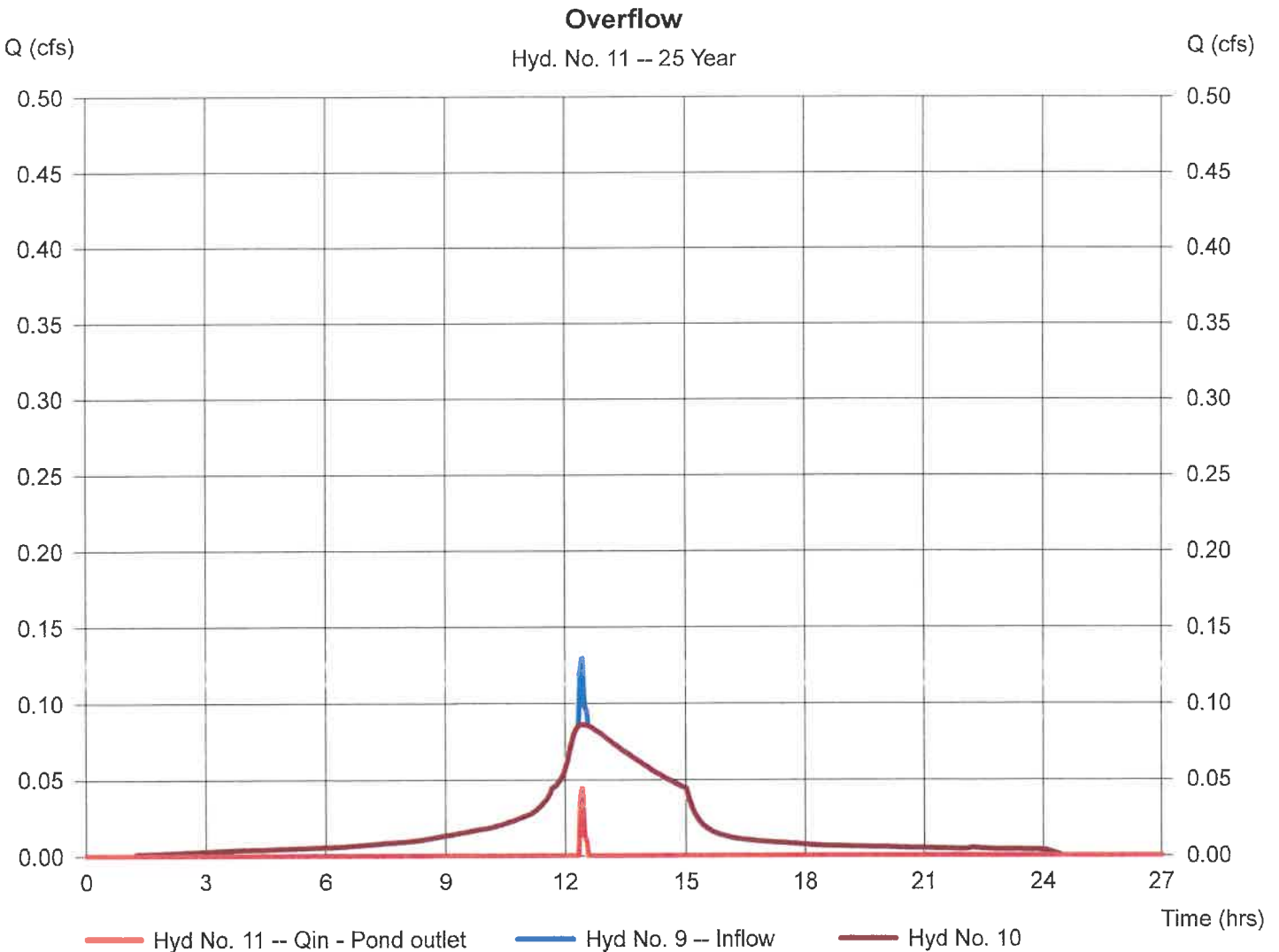
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## Hyd. No. 11

Overflow

Hydrograph type = Diversion2  
 Storm frequency = 25 yrs  
 Time interval = 3 min  
 Inflow hydrograph = 9 - Flow to Infiltration  
 Diversion method = Pond - Infiltration System 1

Peak discharge = 0.043 cfs  
 Time to peak = 12.40 hrs  
 Hyd. volume = 18 cuft  
 2nd diverted hyd. = 10  
 Pond structure = Exfiltration



# Hydrograph Report

Hydraflow Hydrographs by Intellisolve v9.22

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## Hyd. No. 13

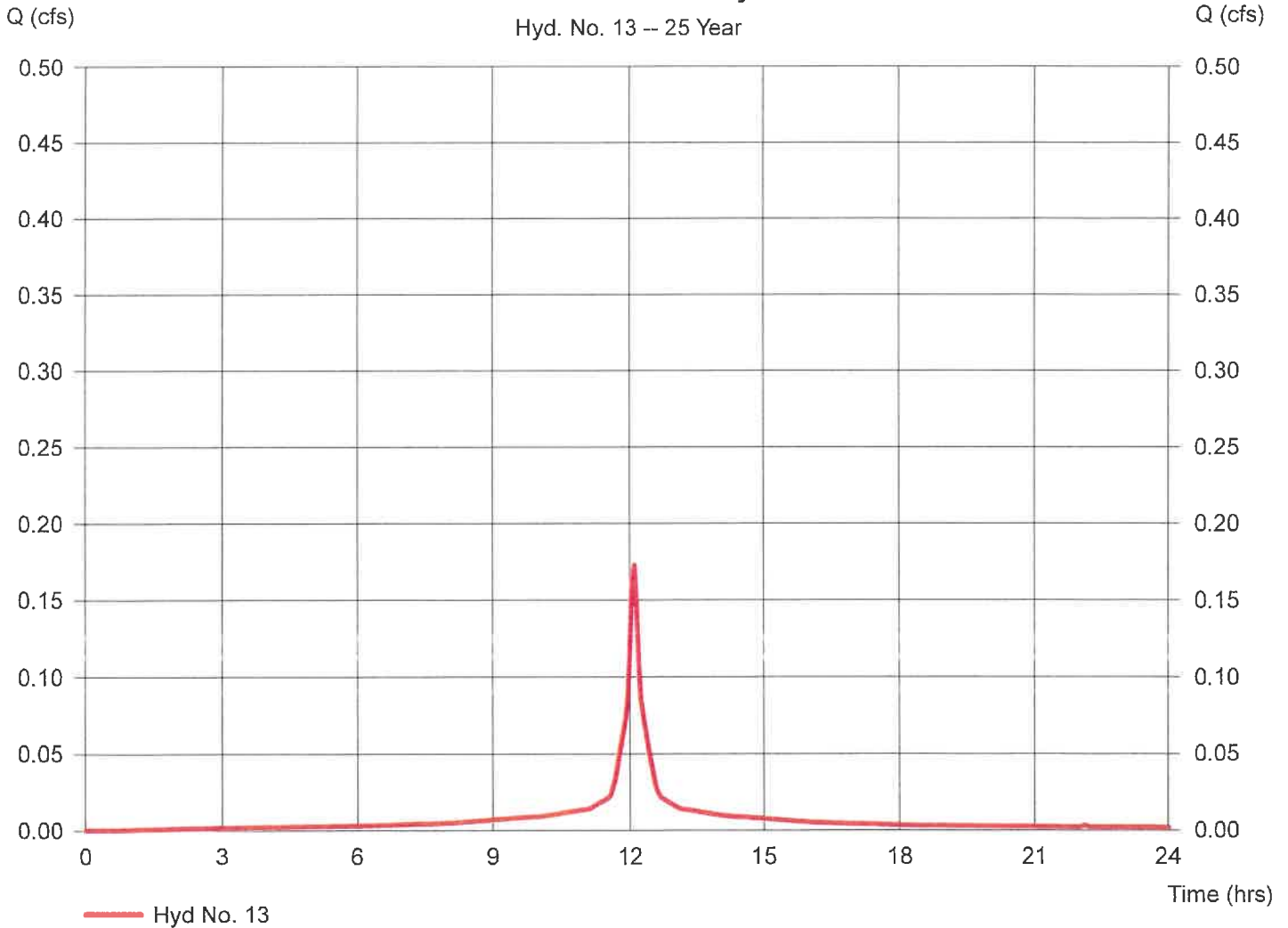
P.D.B.-4 Tto Infiltration System 2

Hydrograph type = SCS Runoff  
Storm frequency = 25 yrs  
Time interval = 3 min  
Drainage area = 0.032 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 6.36 in  
Storm duration = 24 hrs

Peak discharge = 0.173 cfs  
Time to peak = 12.10 hrs  
Hyd. volume = 667 cuft  
Curve number = 98  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 5.00 min  
Distribution = Type III  
Shape factor = 484

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

Hyd. No. 13 -- 25 Year



# Hydrograph Report

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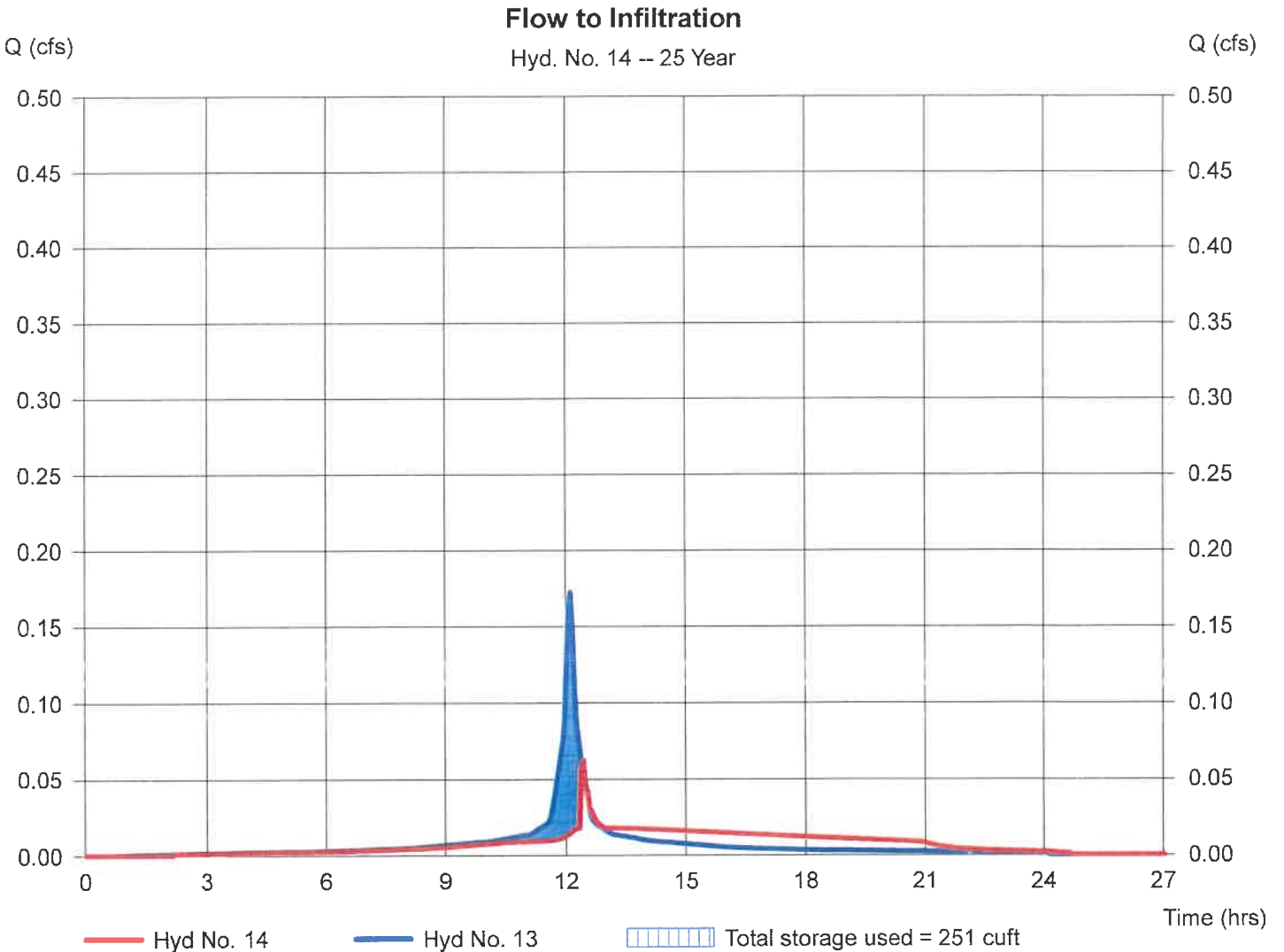
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## Hyd. No. 14

Flow to Infiltration

Hydrograph type	= Reservoir	Peak discharge	= 0.062 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.40 hrs
Time interval	= 3 min	Hyd. volume	= 664 cuft
Inflow hyd. No.	= 13 - P.D.B.-4 Tto Infiltration System 2	Max. Elevation	= 140.78 ft
Reservoir name	= Infiltration System 2	Max. Storage	= 251 cuft

Storage Indication method used. Outflow includes exfiltration.



# Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

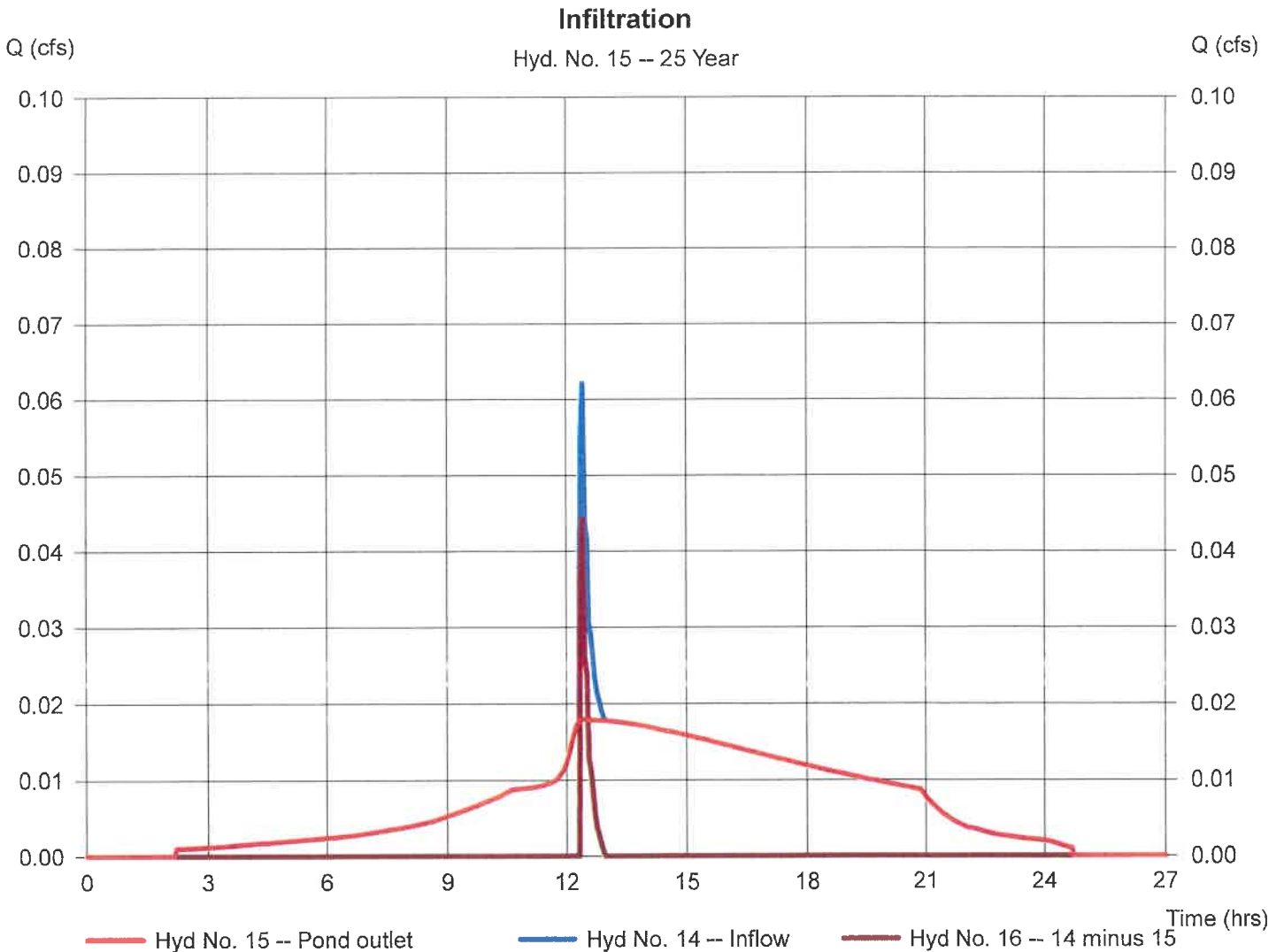
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## Hyd. No. 15

### Infiltration

Hydrograph type = Diversion1  
Storm frequency = 25 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 = 12.40 hrs  
Hyd. volume = 632 cuft  
2nd diverted hyd. = 16  
Pond structure = Exfiltration



# Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

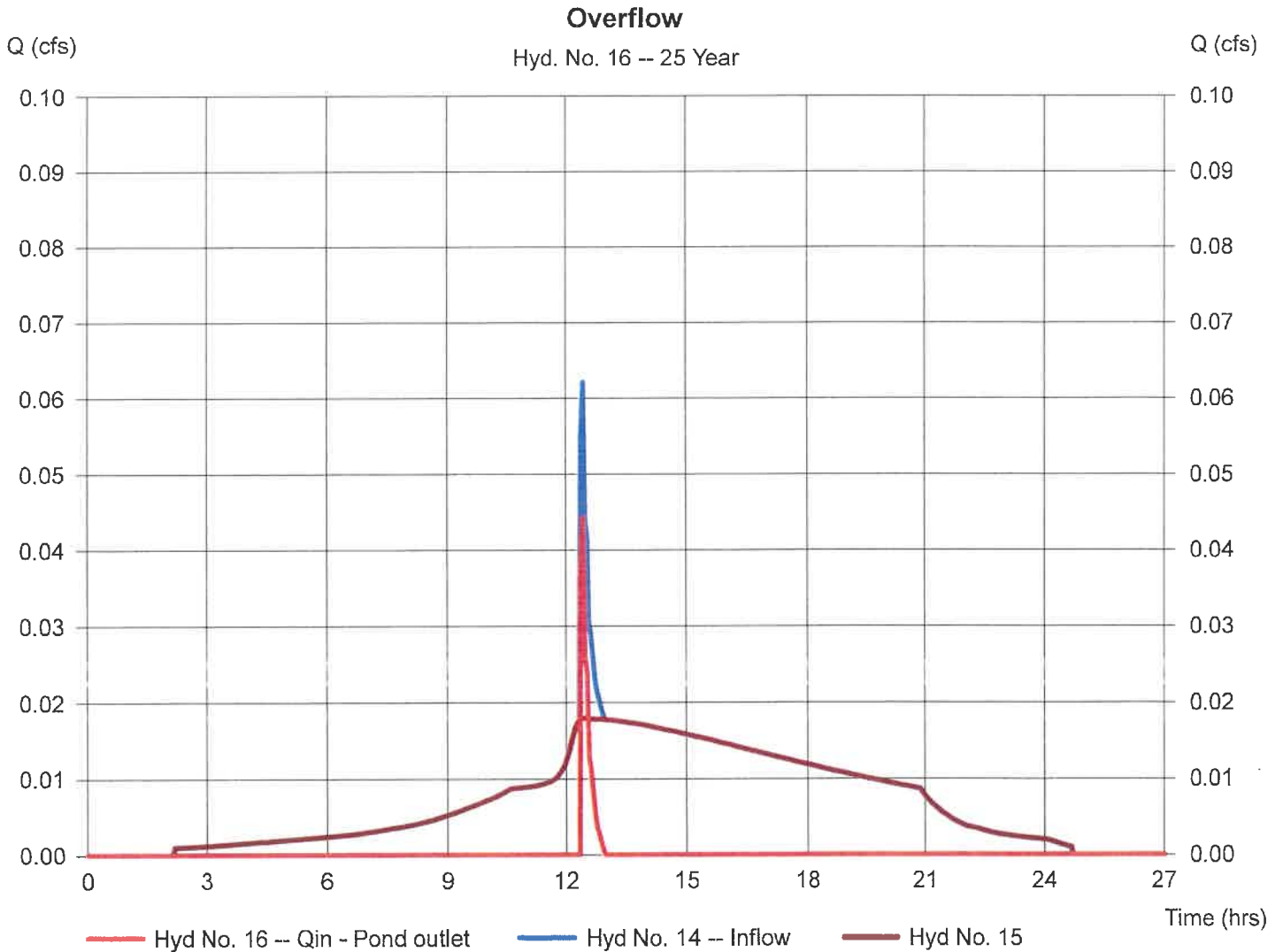
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## Hyd. No. 16

Overflow

Hydrograph type = Diversion2  
 Storm frequency = 25 yrs  
 Time interval = 3 min  
 Inflow hydrograph = 14 - Flow to Infiltration  
 Diversion method = Pond - Infiltration System 2

Peak discharge = 0.044 cfs  
 Time to peak = 12.40 hrs  
 Hyd. volume = 32 cuft  
 2nd diverted hyd. = 15  
 Pond structure = Exfiltration



# Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

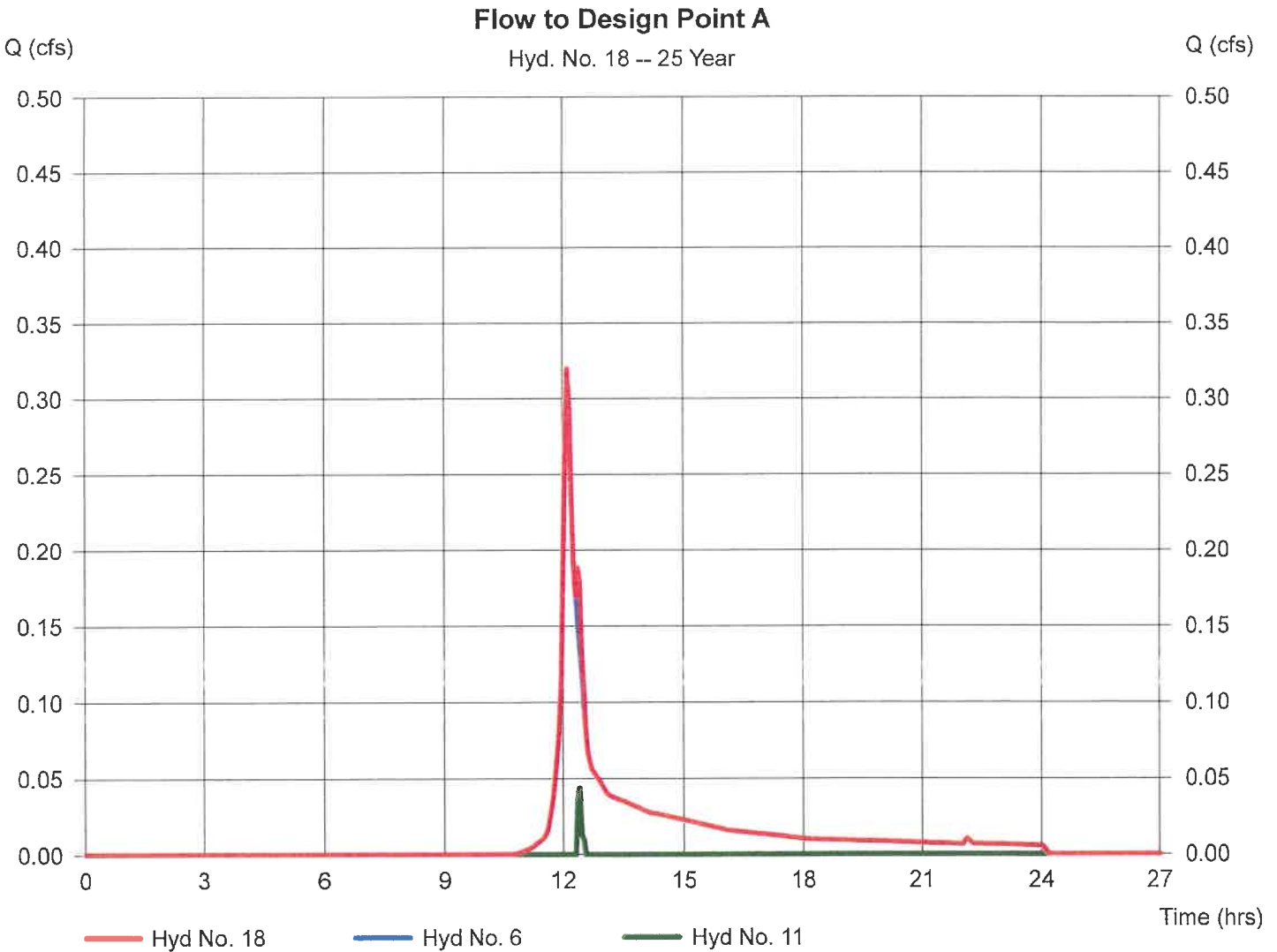
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## Hyd. No. 18

Flow to Design Point A

Hydrograph type = Combine  
 Storm frequency = 25 yrs  
 Time interval = 3 min  
 Inflow hyds. = 6, 11

Peak discharge = 0.320 cfs  
 Time to peak = 12.10 hrs  
 Hyd. volume = 1,144 cuft  
 Contrib. drain. area = 0.166 ac



# Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

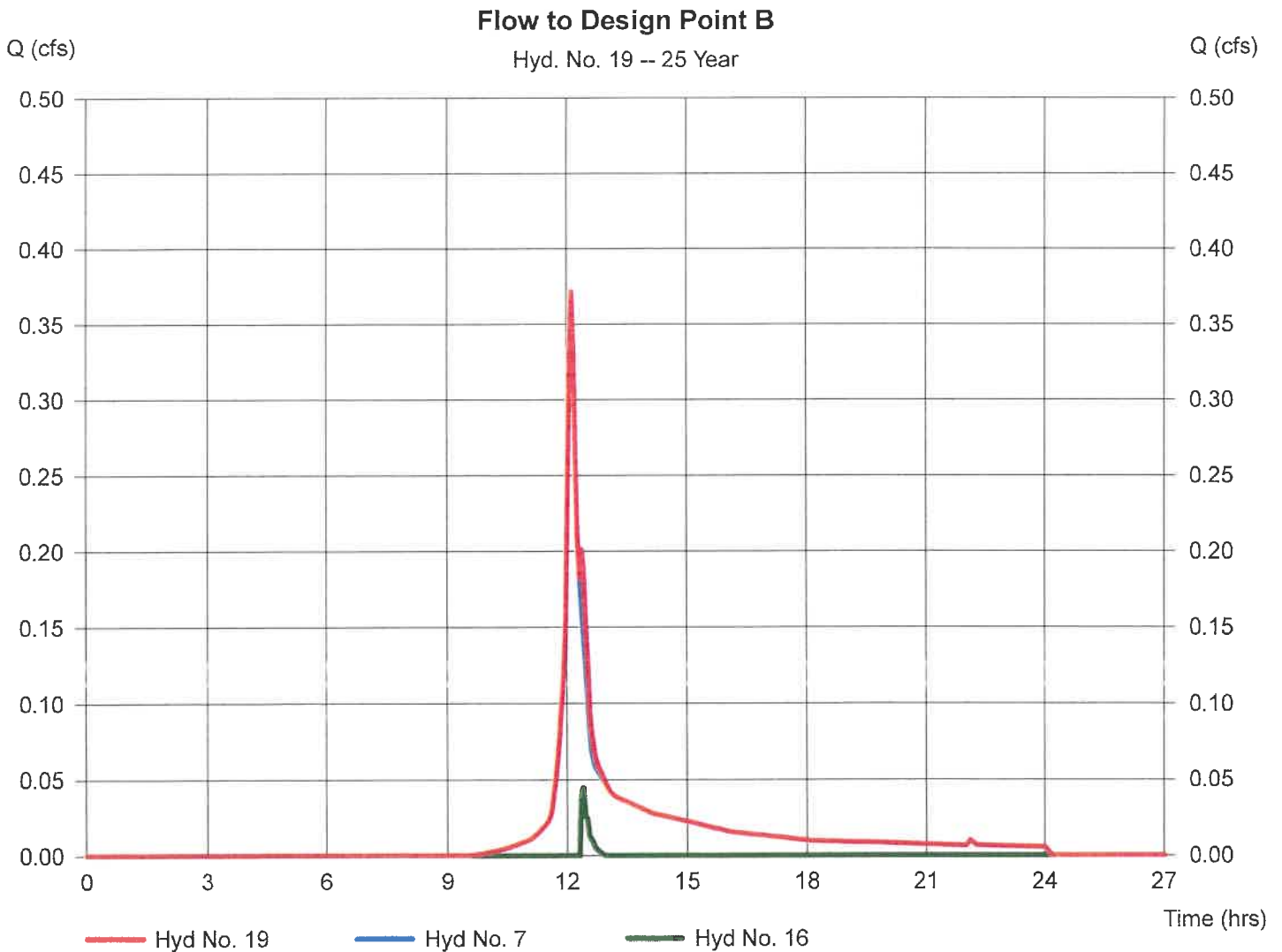
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## Hyd. No. 19

Flow to Design Point B

Hydrograph type = Combine  
Storm frequency = 25 yrs  
Time interval = 3 min  
Inflow hyds. = 7, 16

Peak discharge = 0.372 cfs  
Time to peak = 12.10 hrs  
Hyd. volume = 1,282 cuft  
Contrib. drain. area = 0.136 ac



# Hydrograph Report

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## Hyd. No. 20

### Total Proposed Flow

Hydrograph type = Combine  
Storm frequency = 25 yrs  
Time interval = 3 min  
Inflow hyds. = 6, 7, 11, 16

Peak discharge = 0.691 cfs  
Time to peak = 12.10 hrs  
Hyd. volume = 2,426 cuft  
Contrib. drain. area = 0.302 ac

