Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

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	2.137	1	725	6,603	------	------	------	PC Inflow 1
2	Reservoir	0.379	1	711	6,603	1	32.29	1,977	Routing

Hydrograph Report

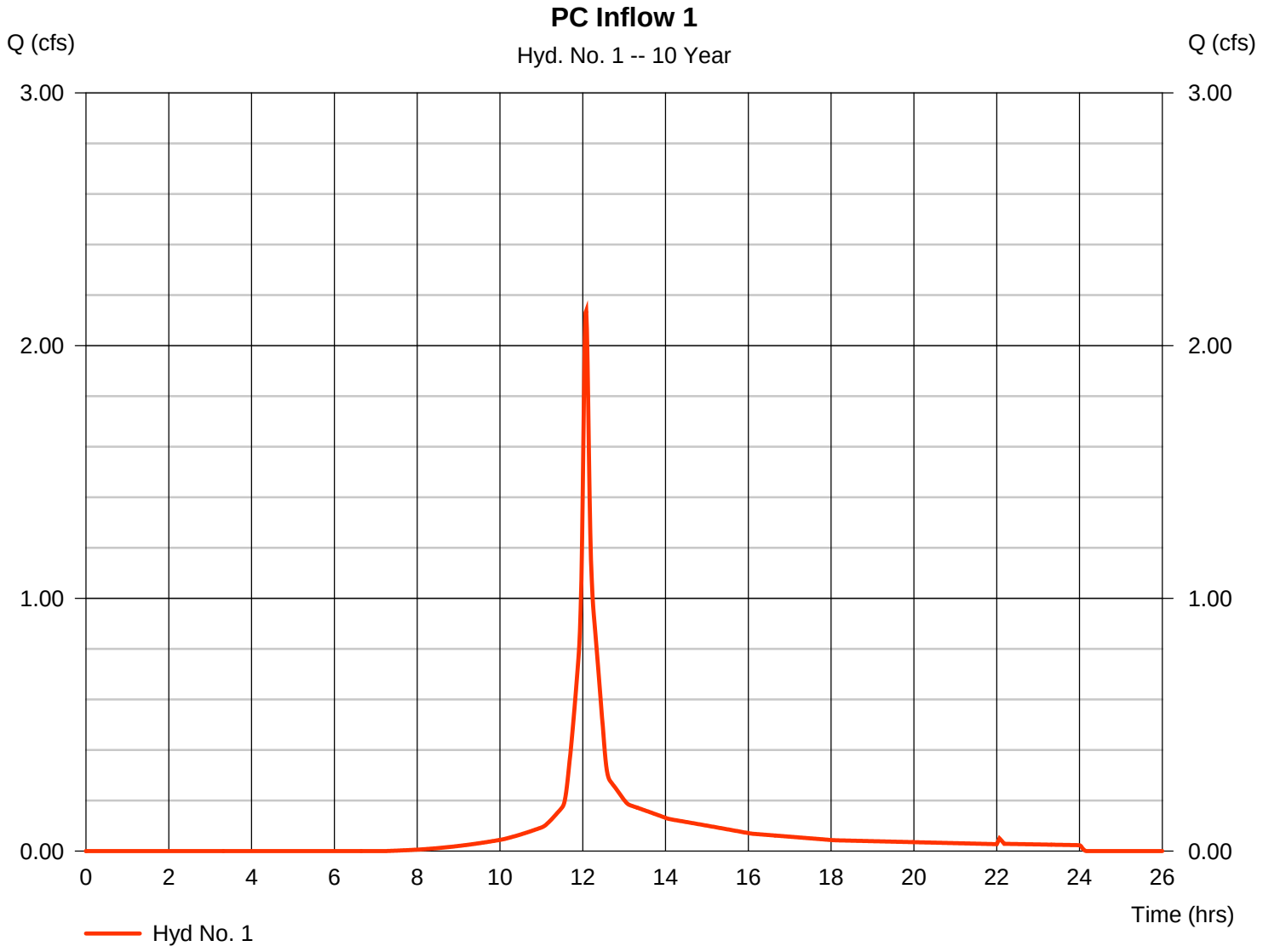
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10 Monday, 08 / 17 / 2015

Hyd. No. 1

PC Inflow 1

Hydrograph type	= SCS Runoff	Peak discharge	= 2.137 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.08 hrs
Time interval	= 1 min	Hyd. volume	= 6,603 cuft
Drainage area	= 0.440 ac	Curve number	= 76*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 6.72 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.278 x 98) + (0.165 x 39)] / 0.440



Hydrograph Report

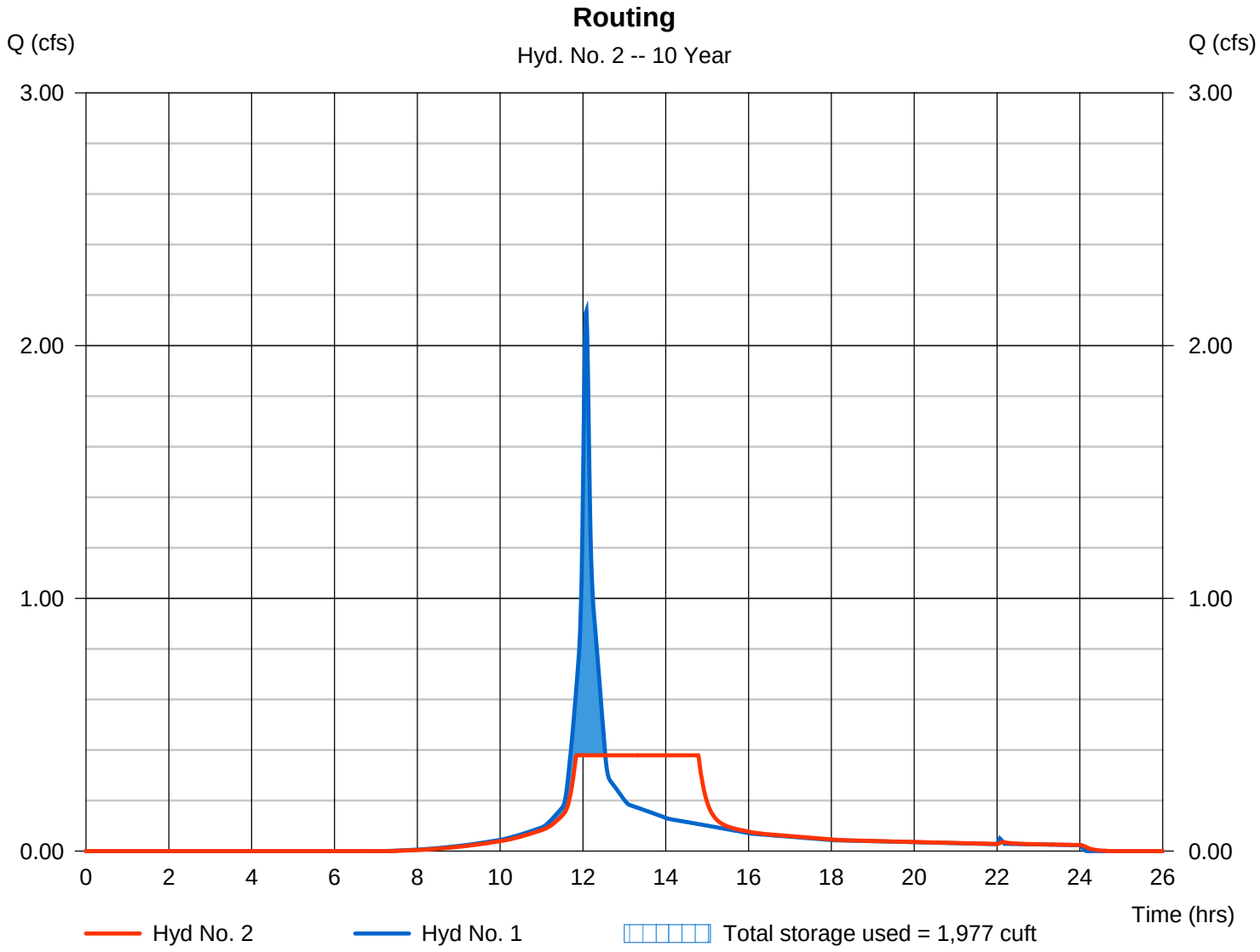
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10 Monday, 08 / 17 / 2015

Hyd. No. 2

Routing

Hydrograph type	= Reservoir	Peak discharge	= 0.379 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.85 hrs
Time interval	= 1 min	Hyd. volume	= 6,603 cuft
Inflow hyd. No.	= 1 - PC Inflow 1	Max. Elevation	= 32.29 ft
Reservoir name	= PC 1	Max. Storage	= 1,977 cuft

Storage Indication method used.



Pond Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10 — Monday, 08 / 17 / 2015

Pond No. 1 - PC 1

Pond Data

Pond storage is based on user-defined values.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	31.50	n/a	0	0
0.10	31.60	n/a	252	252
0.50	32.00	n/a	1,007	1,259
1.00	32.50	n/a	1,259	2,518
1.05	32.55	n/a	47	2,565
1.25	32.75	n/a	189	2,754
1.50	33.00	n/a	236	2,990

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 0.00	0.00	0.00	0.00
Span (in)	= 0.00	0.00	0.00	0.00
No. Barrels	= 0	0	0	0
Invert El. (ft)	= 0.00	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

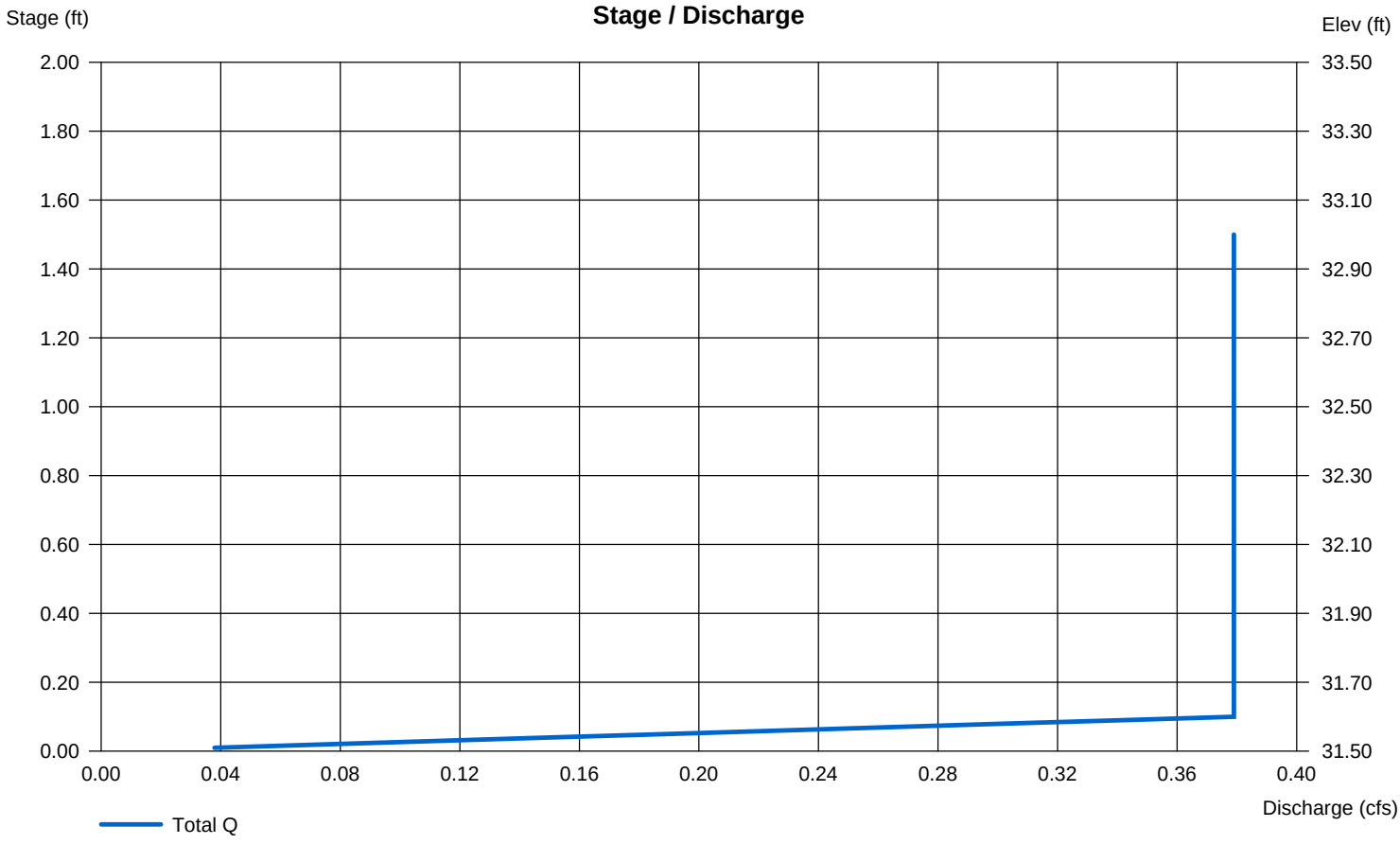
Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 0.00	0.00	0.00	0.00
Crest El. (ft)	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= ---	---	---	---
Multi-Stage	= No	No	No	No

Exfil.(in/hr) = 0.000 (by Wet area)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



Hydrograph Summary Report

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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	2.738	1	725	8,511	------	------	------	PC Inflow 1
2	Reservoir	0.379	1	706	8,510	1	32.84	2,840	Routing

Hydrograph Report

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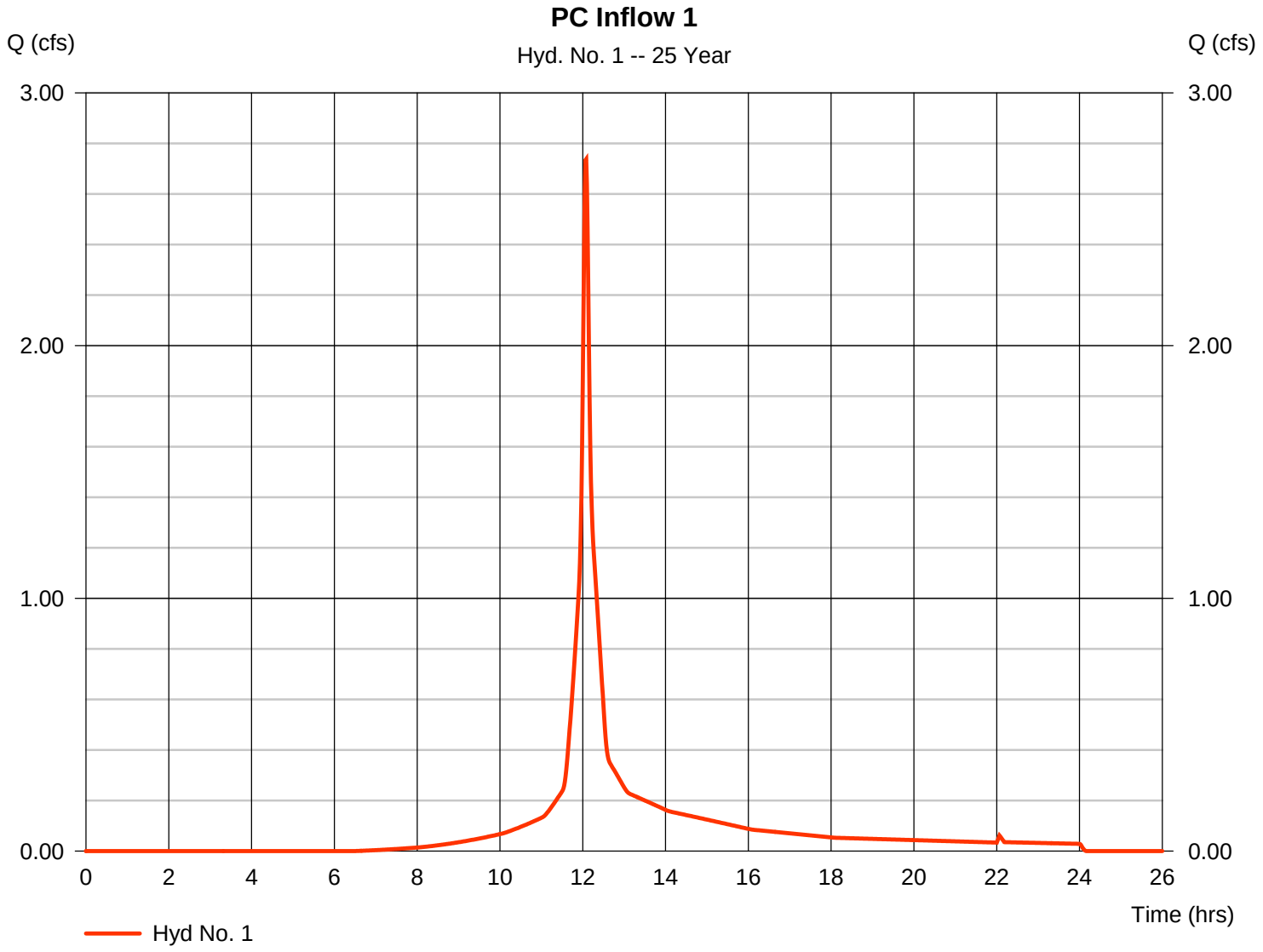
Hyd. No. 1

PC Inflow 1

Hydrograph type	= SCS Runoff	Peak discharge	= 2.738 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.08 hrs
Time interval	= 1 min	Hyd. volume	= 8,511 cuft
Drainage area	= 0.440 ac	Curve number	= 76*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 8.01 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.278 x 98) + (0.165 x 39)] / 0.440



Hydrograph Report

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Hyd. No. 2

Routing

Hydrograph type	= Reservoir	Peak discharge	= 0.379 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.77 hrs
Time interval	= 1 min	Hyd. volume	= 8,510 cuft
Inflow hyd. No.	= 1 - PC Inflow 1	Max. Elevation	= 32.84 ft
Reservoir name	= PC 1	Max. Storage	= 2,840 cuft

Storage Indication method used.