

# Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

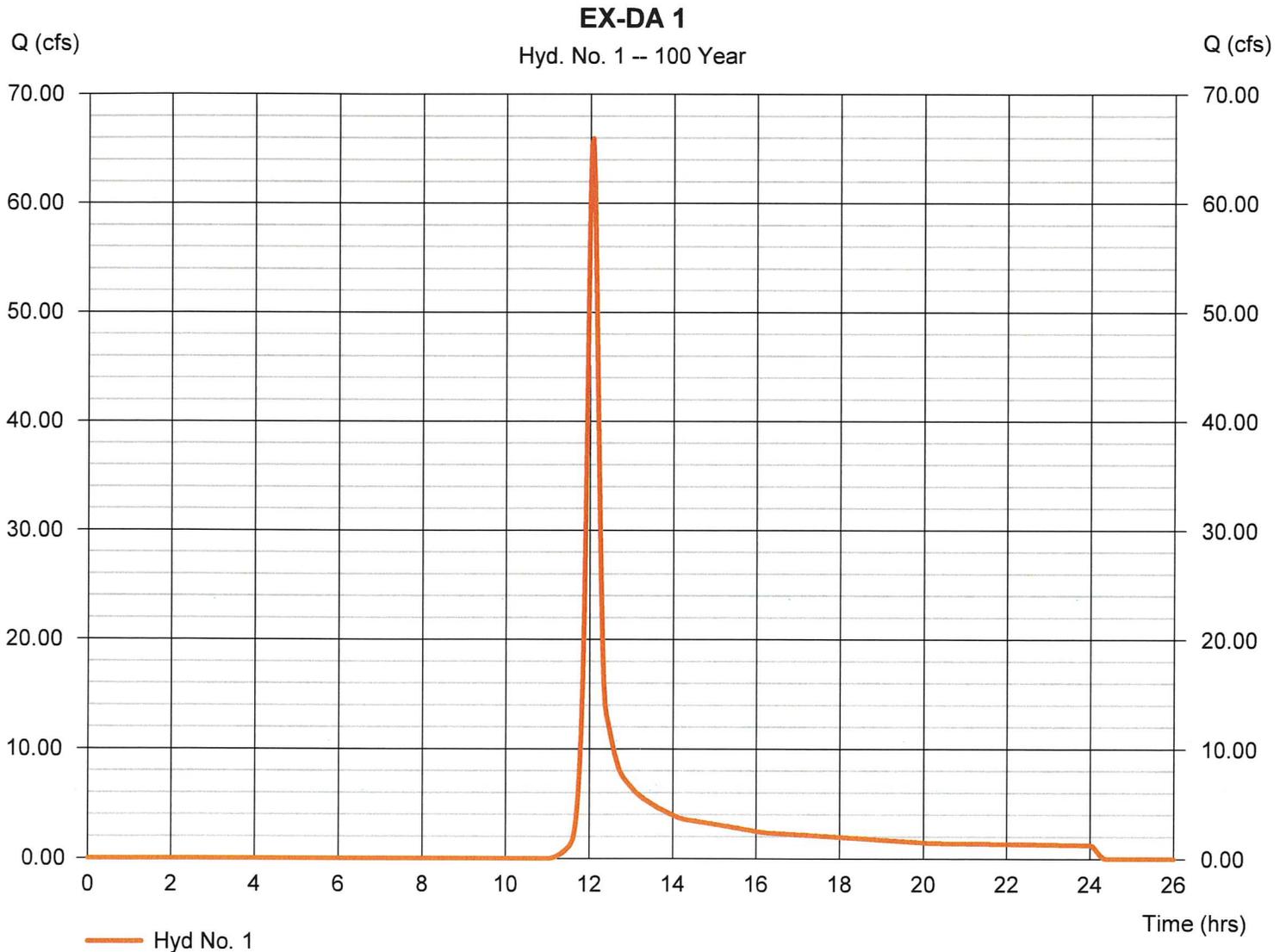
Wednesday, 01 / 29 / 2025

## Hyd. No. 1

EX-DA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 65.95 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 194,360 cuft
Drainage area	= 23.790 ac	Curve number	= 54*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 15.20 min
Total precip.	= 7.44 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

\* Composite (Area/CN) = [(5.640 x 39) + (0.690 x 61) + (8.150 x 77) + (5.640 x 30) + (2.770 x 55) + (0.900 x 74)] / 23.790



# 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	65.95	2	724	194,360	----	----	----	EX-DA 1
2	SCS Runoff	62.09	2	720	161,178	----	----	----	EX-DA2
3	SCS Runoff	93.46	2	726	299,808	----	----	----	EX-DA3
4	SCS Runoff	62.50	2	720	163,723	----	----	----	EX-DA4
5	SCS Runoff	14.14	2	726	50,700	----	----	----	EX-DA5
6	SCS Runoff	15.39	2	720	41,204	----	----	----	EX-DA-Road Widening
7	Combine	303.92	2	722	910,973	1, 2, 3, 4, 5, 6	----	----	EX-TOTAL
8	SCS Runoff	124.84	2	716	293,802	----	----	----	PR-DA-A
9	SCS Runoff	157.76	2	716	371,280	----	----	----	PR-DA-B
10	SCS Runoff	284.74	2	718	704,998	----	----	----	PR-DA-C
11	Reservoir	1.125	2	1210	272,389	8	292.49	236,618	BMP A Routing
12	Reservoir	2.243	2	1026	359,735	9	288.98	276,625	BMP B Routing
13	SCS Runoff	66.27	2	716	137,862	----	----	----	PR-DA-E
14	Reservoir	31.89	2	722	133,847	13	260.69	59,058	BMP E Routing
15	Combine	287.19	2	718	1,337,122	10, 11, 12,	----	----	BMP C INFLOW
16	Reservoir	12.11	2	840	1,244,777	15	219.67	499,313	MRC BMP C Routing(DP1)
17	SCS Runoff	28.81	2	718	58,058	----	----	----	PR-BYPASS 1
18	SCS Runoff	7.790	2	718	17,845	----	----	----	PR RG
19	SCS Runoff	11.53	2	720	29,459	----	----	----	PR-BYPASS 2
20	SCS Runoff	13.00	2	718	26,034	----	----	----	PR-BYPASS 3
21	SCS Runoff	15.02	2	718	40,514	----	----	----	PR-Road Widening
22	Combine	53.64	2	720	192,206	14, 18, 21	----	----	BMP E Outflow + PR Road Widening
23	Reservoir	51.29	2	722	179,192	22	233.70	21,180	RG Routing (DP2)
24	Combine	52.43	2	718	113,551	17, 19, 20,	----	----	PR-BYPASS
25	Combine	136.30	2	720	1,671,372	14, 16, 23, 24	----	----	PROPOSED ENTIRE SITE (POI)
26	Combine	126.98	2	722	355,538	1, 2,	----	----	EX-to- Bushkill
27	Combine	41.81	2	718	84,092	17, 20,	----	----	PR-to-Bushkill
28	Combine	176.94	2	722	555,436	3, 4, 5, 6,	----	----	EX-to-UNT
29	Combine	78.84	2	722	1,471,274	16, 18, 19, 23,	----	----	PR-to-UNT (DPs 001& 002)